Richard Andrew Staff

(Linacre College, University of Oxford)

Research on Radiocarbon Calibration Records, Focussing on New Measurements from Lake Suigetsu, Japan

(Volume 2)

Thesis submitted for DPhil in Archaeological Science, Trinity Term 2011

Appendices

Appendix 1: List of abbreviations

– ‘Suigetsu Varves 2006’ macrofossil sample number

#S – SG06 sediment samples

A-value – agreement value in OxCal (Bronk Ramsey 1995)

AAA – acid-alkali-acid (radiocarbon pre-treatment methodology)

ABA – acid-base-acid (radiocarbon pre-treatment methodology)

AMS – accelerator mass spectrometry

a.s.l. – vertical height above (present) sea level

BP – radiocarbon years before present, where ‘present’ is defined as AD 1950 (Mook 1986; section 1.2)

cal. (ka) BP – (thousand) calibrated years before present, where ‘present’ is defined as AD 1950 (herein also applied to the conceptual ‘absolute age’ timescale – i.e. the ‘real’, calendar age scale, which, theoretically, should be equivalent to calibrated radiocarbon ages in any case – both within- and beyond the range of the radiocarbon dating method; section 1.2)

cal. yr b2k – ice core years before AD 2000 (the NGRIP timescale of Rasmussen *et al*. 2006; section 1.2)

CD – SG06 composite depth

COMX – cold mixed forest (Nakagawa *et al*. 2005)

CQL – chronological query language

$\delta^{13}C$ – the deviation of a sample’s ^{13}C:^{12}C ratio from that of the PDB limestone standard (Walker 2005, p.26)

$\Delta^{14}C$ – the initial atmospheric radiocarbon concentration; expressed in ‰ relative to the pre-industrial atmosphere (the international Oxalic standard) after correction for decay and fractionation (Stuiver and Polach 1977); $\Delta^{14}C = (Fm \times e^{\lambda t} - 1) \times 1000$, where Fm is fraction modern ^{14}C after reservoir correction, λ is the true radiocarbon decay constant and t is calendar age (Hughen *et al*. 2004b)

DCF – dead carbon fraction

Dec.br.leaf – deciduous broad leaf

DIC – dissolved inorganic carbon

D/O cycles – Dansgaard/Oeschger cycles

ΔR – the regional variation from the globally averaged marine reservoir age, R

EA – elemental analyser

EFD – SG06 event-free depth

Ev.br.leaf – evergreen broad leaf

$F^{14}C$ – (fractionation-corrected) fraction modern ^{14}C (Reimer *et al*. 2004b)

Fm – fraction modern ^{14}C

g – small graphite target (for AMS radiocarbon dating at ORAU)

G – ‘normal’ (large) graphite target (for AMS radiocarbon dating at ORAU)

GC – gas chromatograph

GCM – general circulation model

GFZ – GeoForschungsZentrum, Potsdam, Germany

GI – Greenland Interstadial

GISP2 – the Greenland Ice Sheet Project 2 ice core

GRIP – the Greenland Ice Core Project ice core

GS – Greenland Stadial

GSSP – Global Stratotype Section and Point

H_0 – null hypothesis

H_1 – alternative hypothesis

H0, H1, H2, H3, H4, H5, H6 – Heinrich events 0 (the YD), 1, 2, 3, 4, 5 and 6 (Heinrich 1988; Bond *et al*. 1992, 1993; Andrews 1998)

HPD – highest probability density

IMG06 – the composite sediment core obtained from Ichi-no-Megata maar in autumn 2006 (Yamada *et al*., forthcoming)

IntCal – the internationally-ratified consensus radiocarbon calibration curves: IntCal98 (Stuiver *et al*. 1998a); IntCal04 (Reimer *et al*. 2004a); and IntCal09 (Reimer *et al*. 2009)

'INTIMATE' – 'INTegrating Ice core, MArine, and TErrestrial records, 60,000 to 8,000 years ago'

IRMS – isotope ratio mass spectrometer

ka BP – thousand radiocarbon years before present, where 'present' is defined as AD 1950 (Mook 1986; section 1.2).

LAO – light amorphous organic sediment material

LGIT – Last Glacial/Interglacial transition

LGM – Last Glacial Maximum

MAT – modern analogues technique (Nakagawa *et al*. 2002, 2005, 2006)

MC-ICPMS – multi-collector inductively-coupled mass spectrometry

MCMC – Markov chain Monte Carlo

MIS – marine isotope stage

MTCO – mean temperature of the coldest month (Nakagawa *et al*. 2006)

MTWA – mean temperature of the warmest month (Nakagawa *et al*. 2006)

NADW – North Atlantic deepwater

NBS – the United States National Bureau of Standards (now, NIST)

NEC – National Electrostatics Corporation

NERC – Natural Environment Research Council, UK

NGRIP – NorthGRIP (North Greenland Ice-core Project) ice core

NIST – the United States National Institute of Standards and Technology, formerly (prior to 1988) the National Bureau of Standards (NBS)

NH – Northern Hemisphere

NOX – United States National Institute of Standards and Technology (NIST) Oxalic acid-II standard

NRCF-E – the NERC Radiocarbon Facility-Environment, East Kilbride (formerly, NRCL)

NRCL – the NERC Radiocarbon Laboratory, East Kilbride (now, NRCF-E)

OCM – OxCal model

ORAU – Oxford Radiocarbon Accelerator Unit, University of Oxford

OSL – optically-stimulated luminescence

PDB limestone – belemnite (*Belemnitella americana*) carbonate from the Cretaceous Peedee Formation in South Carolina, USA

PDF – probability density function

pMC – percent modern carbon

P_{sum} – summer precipitation (cumulative precipitation from April to September; Nakagawa *et al*. 2006).

P_{win} – winter precipitation (cumulative precipitation from October to March; Nakagawa *et al*. 2006).

R – the pre-industrial global mean marine reservoir correction to conventional radiocarbon age (Reimer & Reimer 2001)

RLAHA – the Research Laboratory for Archaeology and the History of Art, University of Oxford

SEM – scanning electron microscopy

SG06 – the composite sediment core obtained from Lake Suigetsu for the present 'Suigestsu Varves 2006' project in summer 2006 (Nakagawa *et al*. 2011)

SG06 vyr BP – Suigetsu Varves 2006 (SG06 sediment core) varve years before present, where 'present' is defined as AD 1950 (sections 1.2, 3.6.3, 7.3 and 7.4).

SG1, SG2, SG3, SG4, SG93 – the sediment cores obtained from Lake Suigetsu by Kitagawa and co-workers (e.g. Takemura *et al*. 1994; Kitagawa *et al*. 1995) in 1991 (SG1 and SG2) and 1993 (SG3, SG4 and SG93) for the previous Suigetsu project (defined herein as the "Suigetsu '93" project)

SG4 vyr BP – Suigetsu '93 (SG4 sediment core) varve years before present, where 'present' is defined as AD 1950 (Kitagawa *et al*. 1995; sections 1.2 and 3.5.1)

SG93 vyr BP – Suigetsu '93 (SG93 sediment core) varve years before present, where 'present' is defined as AD 1950 (Kitagawa and van der Plicht 1998a, 1998b, 2000; sections 1.2 and 3.5.1)

SGPH – Suigetsu Pollen Holocene (Nakagawa *et al*. 2005)

SGPI – Suigetsu Pollen Interstadial (Nakagawa *et al*. 2003, 2005)

SGPS – Suigetsu Pollen Stadial (Nakagawa *et al*. 2003, 2005)

SH – Southern Hemisphere

SI – *Système international d'unités*; the International System of Units

SSAMS – single-stage accelerator mass spectrometer (AMS)

SUERC – Scottish Universities Environmental Research Centre, East Kilbride

t – the time elapsed (in 'radiocarbon years') since equilibrium with the ambient environmental ^{14}C concentration

$T_{½}$ – half-life

τ – mean life

T_{ann} – mean annual temperature (Nakagawa *et al*. 2003, 2005)

T_{var} – the temperature difference between the warmest- and coldest months (Nakagawa *et al*. 2003, 2005)

TEDE – temperate deciduous forest (Nakagawa *et al*. 2005)

THC – thermohaline circulation (Broecker 1991)

TIMS – thermal ionisation mass spectrometry

UV – ultraviolet

vsg – very small graphite target (for AMS radiocarbon dating at ORAU)

WAMX – warm mixed forest (Nakagawa *et al*. 2005)

XRD – X-ray difraction

XRF – X-ray fluorescence

YD – Younger Dryas

Appendix 2: Radiocarbon dataset of Kitagawa *et al*. (1995), consisting of 46 AMS radiocarbon determinations of terrestrial macrofossils sampled from the Lake Suigetsu sediment core SG4.

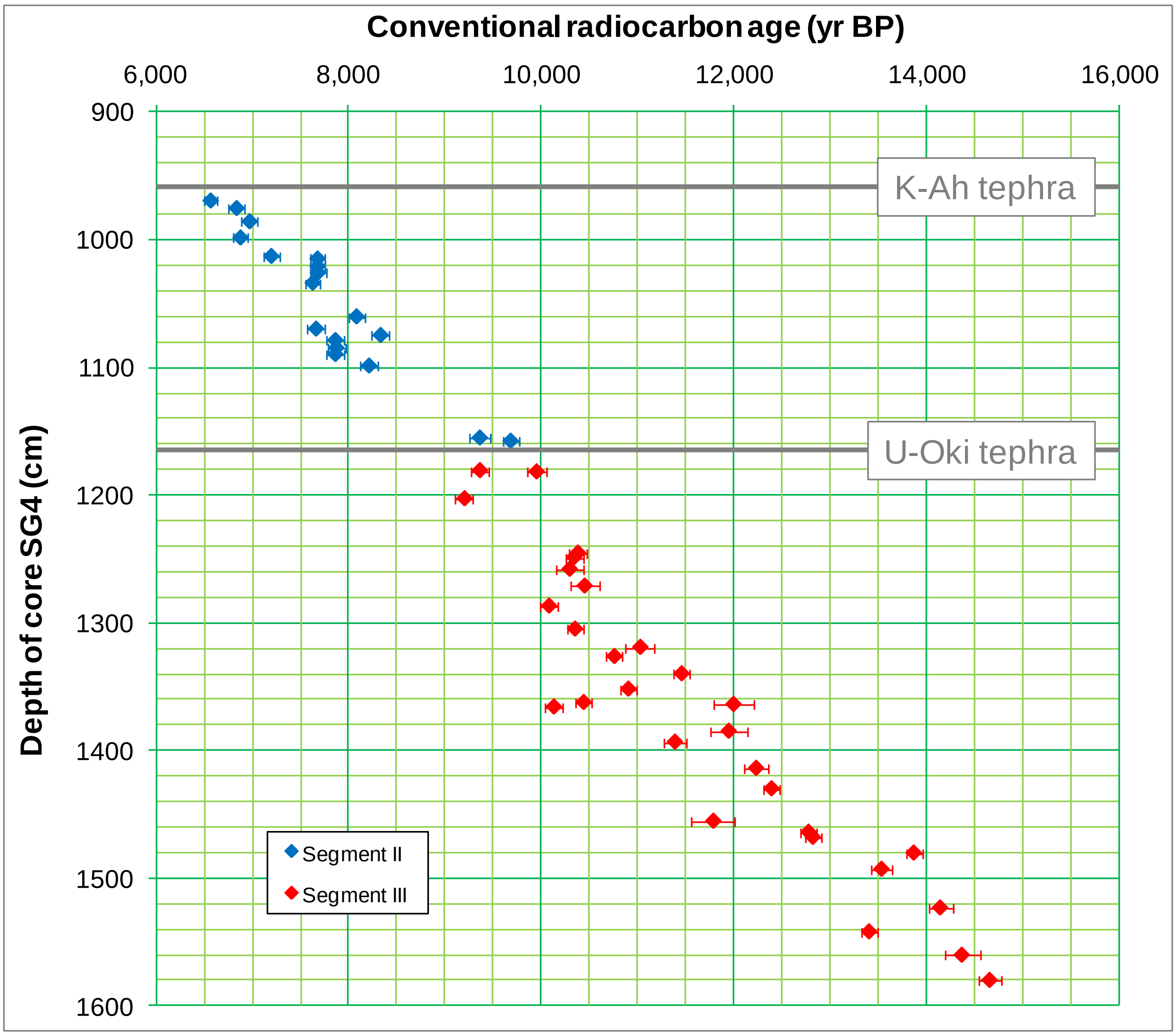
(a): table view. (All samples were pre-treated with an ABA methodology, and samples marked with * were further reduced to hollocellulose.)

SG4 sample ID	Depth (cm)	Sample type	Weight before combustion (mg)	Carbon content		SG4 vyr BP	Conventional radiocarbon date (± 1σ)		
				(mg)	(%)				
Segment II									
SG4-II-1	969.5	Leaf	5.8	3.1	53		6,565	±	70
SG4-II-2	975.4	Leaf	4.2	2.5	59		6,835	±	85
SG4-II-3	985.8	Leaf	4.2	2.5	59		6,970	±	85
SG4-II-4	998.5	Leaf *	4.9	2.7	55		6,875	±	75
SG4-II-5	1013.0	Leaf *	5.5	3.2	57		7,195	±	85
SG4-II-6	1015.0	Leaf *	5.5	3.2	57		7,675	±	80
SG4-II-7	1021.0	Leaf *	4.7	2.6	55		7,675	±	80
SG4-II-8	1026.0	Twig *	6.0	2.4	40		7,680	±	80
SG4-II-9	1034.0	Leaf *	4.8	2.8	60		7,625	±	80
SG4-II-10	1060.4	Leaf	2.1	1.1	52		8,080	±	85
SG4-II-11	1070.0	Leaf	1.4	0.7	50		7,660	±	90
SG4-II-12	1075.0	Insect wing	0.8	0.4	52		8,330	±	90
SG4-II-13	1079.0	Leaf	2.9	1.5	52		7,860	±	90
SG4-II-14	1085.0	Twig	1.6	0.7	43		7,870	±	90
SG4-II-15	1090.0	Leaf	0.8	0.5	55		7,860	±	90
SG4-II-16	1099.0	Leaf	1.0	0.3	31		8,210	±	85
SG4-II-17	1155.5	Twig	0.8	0.5	57		9,360	±	115
SG4-II-18	1158.0	Leaf	5.5	2.8	51		9,680	±	85

Appendix 2a (continued):

SG4 sample ID	Depth (cm)	Sample type	Weight before combustion (mg)	Carbon content (mg)	Carbon content (%)	SG4 wyr BP	Conventional radiocarbon date (± 1σ)		
Segment III									
SG4-III-Ia	1181.0	Twig	2.9	1.3	45	10,862 (±250)	9,360	±	90
SG4-III-Ib	1182.0	Twig	2.9	1.4	47	10,865	9,950	±	100
SG4-III-2	1203.0	Leaf *	4.2	2.1	49	10,978	9,200	±	90
SG4-III-3	1245.5	Leaf	2.8	1.1	39	11,240	10,380	±	85
SG4-III-4	1249.0	Leaf	2.4	0.7	30	11,256	10,340	±	90
SG4-III-5	1258.2	Leaf	0.9	0.3	30	11,260	10,295	±	145
SG4-III-6	1271.3	Leaf	1.6	0.4	26	11,503	10,450	±	150
SG4-III-7	1287.0	Twig	0.7	0.3	46	11,679	10,080	±	85
SG4-III-8	1305.0	Leaf	1.2	0.3	25	11,846	10,350	±	85
SG4-III-9	1319.3	Leaf	0.9	0.3	32	12,017	11,030	±	150
SG4-III-10	1326.5	Leaf	2.9	0.8	26	12,078	10,760	±	85
SG4-III-11	1340.0	Leaf	0.4	0.2	39	12,169	11,460	±	85
SG4-III-12	1352.0	Leaf	2.4	0.4	18	12,228	10,905	±	85
SG4-III-13	1362.5	Leaf *	0.7	0.3	37	12,335	10,440	±	85
SG4-III-14	1364.0	Leaf	1.1	0.5	43	12,344	12,000	±	215
SG4-III-15	1366.0	Leaf	1.1	0.6	54	12,358	10,130	±	85
SG4-III-16	1385.0	Leaf	1.1	0.3	24	12,488	11,950	±	190
SG4-III-17	1393.5	Leaf	0.6	0.3	46	12,530	11,390	±	115
SG4-III-18	1414.0	Leaf	0.9	0.5	51	12,793	12,235	±	130
SG4-III-19	1430.0	Leaf	1.7	0.9	54	12,987	12,395	±	85
SG4-III-20	1455.4	Leaf	0.5	0.2	51	13,234	11,790	±	225
SG4-III-21	1464.0	Leaf	2.1	1.1	52	13,331	12,780	±	85
SG4-III-22	1468.0	Leaf	4.8	2.0	42	13,355	12,825	±	85
SG4-III-23	1480.3	Leaf	2.7	1.1	39	13,450	13,875	±	85
SG4-III-24	1493.0	Leaf	2.5	1.2	47	13,599	13,540	±	105
SG4-III-25	1523.3	Leaf	1.6	0.8	49	13,844	14,150	±	130
SG4-III-26	1542.0	Leaf	2.0	1.0	49	14,081	13,410	±	90
SG4-III-27	1560.3	Leaf	0.7	0.3	44	14,339	14,375	±	185
SG4-III-28	1580.0	Twig *	2.7	1.0	37	14,440	14,665	±	120

Appendix 2 (b): age-depth plot.



Appendix 3: Radiocarbon dataset of Kitagawa and van der Plicht (1998a, 1998b, 2000), comprising 354 AMS radiocarbon determinations of terrestrial macrofossils sampled from Lake Suigetsu sediment core SG93. (Equivalent SG06 composite- and event-free depths, 'CD' and 'EFD', have been achieved through the visual core matching exercise described in section 6.2. SG93 varve age, 'SG93 vyr BP', below 30.45 m was estimated by the original authors through an assumption of the continued constant sedimentation rate in the Glacial period of 0.62 mm yr^{-1}. Duplicate AMS measurements have been averaged; section 5.1.2.)

SG93 sample ID	Depth (cm) (top)	Depth (cm) (bottom)	Equivalent SG06 CD (centre; cm)	Equivalent SG06 EFD (centre; cm)	SG93 vyr BP (centre)	AMS target ID	Conventional radiocarbon date (± 1σ)			Reference: Kitagawa and van der Plicht-
SG02C04	114.9	117.9				GrA-4571	525	±	60	1998a, 1998b
SG02A02	150.5	153.4				GrA-4572	940	±	65	1998a, 1998b
SG03E05	174.2	178.3				GrA-4573	1,045	±	60	1998a, 1998b
SG03A03	238.8	241.8				GrA-4574	1,575	±	60	1998a, 1998b
SG04D05	285.5	288.7				GrA-4575	2,140	±	90	1998a, 1998b
SG04A01	323.9	327.1				GrA-4576	2,285	±	65	1998a, 1998b
SG05D07	367.6	371.0				GrA-4577	2,470	±	60	1998a, 1998b
SG05C01	371.0	374.4				GrA-4578	2,450	±	65	1998a, 1998b
SG05B05	402.2	405.6				GrA-4579	2,590	±	65	1998a, 1998b
SG06E05	450.5	455.3				GrA-4580	3,040	±	60	1998a, 1998b
SG06C03	461.5	464.7				GrA-4581	3,115	±	60	1998a, 1998b
SG06B07	513.8	516.9				GrA-4582	3,420	±	60	1998a, 1998b
SG07E08	560.7	564.7				GrA-1899	3,680	±	60	1998a, 1998b
SG07D02	567.7	570.7				GrA-1897	3,705	±	60	1998a, 1998b
SG07B05	603.4	606.4				GrA-1900	3,870	±	60	1998a, 1998b
SG08C02	625.1	628.2				GrA-1953	4,120	±	60	1998a, 1998b
SG08C10	649.8	654.4				GrA-7746	4,416	±	40	1998a, 1998b
SG08A03	690.9	694.0				GrA-1894	4,525	±	60	1998a, 1998b
SG08B08	706.3	709.4				GrA-1939	4,460	±	60	1998a, 1998b
SG09D04	726.9	729.9				GrA-2493	4,725	±	60	1998a, 1998b
SG09C01	746.7	749.6				GrA-2498	4,875	±	60	1998a, 1998b
SG09C05	758.5	761.5				GrA-4583	5,095	±	125	1998a, 1998b
SG09B01	774.3	777.3				GrA-4584	5,040	±	70	1998a, 1998b
SG10C05	815.4	818.5				GrA-2499	5,460	±	60	1998a, 1998b
SG10C09	827.8	830.9				GrA-2496	5,420	±	70	1998a, 1998b
SG10B03	843.3	846.4				GrA-2495	5,435	±	70	1998a, 1998b
SG10B05	849.5	852.6				GrA-2500	5,800	±	90	1998a, 1998b
SG10B07	855.7	858.8				GrA-2494	5,775	±	70	1998a, 1998b
SG10B11	868.1	871.2				GrA-2491	5,850	±	70	1998a, 1998b
SG10A02	874.3	877.4				GrA-7744	5,960	±	60	1998a, 1998b
SG10A05	883.6	886.7				GrA-7742	5,890	±	60	1998a, 1998b
SG10A08	892.9	895.0				GrA-7745	6,250	±	90	1998a, 1998b
SG11D02	898.2	901.4	949.8	934.9		GrA-2963	6,390	±	200	1998a, 1998b
SG11D03	901.4	904.6	952.8	937.9		GrA-7738	6,220	±	70	1998a, 1998b
SG11D04	904.6	907.8	955.6	940.7		GrA-2964	6,455	±	110	1998a, 1998b
SG11B07	914.3	917.5	963.6	948.4		GrA-2965	6,445	±	100	1998a, 1998b
SG11B08	917.5	921.7	966.3	949.8		GrA-2966	6,675	±	150	1998a, 1998b
SG11D10	924.4	927.1	971.7	954.0		GrA-2967	6,585	±	150	1998a, 1998b

Appendix 3 (continued):

SG93 sample ID	Depth (cm)		Equivalent SG06 CD (centre; cm)	Equivalent SG06 EFD (centre; cm)	SG93 vyr BP (centre)	AMS target ID	Conventional radiocarbon date (± 1σ)			Reference: Kitagawa and van der Plicht-
	(top)	(bottom)								
SG11C01	927.1	930.3	974.6	956.8		GrA-7741	6,410	±	80	1998a, 1998b
SG11C02	930.3	933.5	977.7	959.9		GrA-2982	6,520	±	115	1998a, 1998b
SG11C03	933.5	936.7	980.8	963.1		GrA-7734	6,500	±	70	1998a, 1998b
SG11C04	936.7	939.9	983.9	966.2		GrA-2977	6,590	±	95	1998a, 1998b
SG11C06	943.1	946.9	990.4	972.6		GrA-2989	6,635	±	110	1998a, 1998b
SG11B01	946.9	950.1	993.7	975.9		GrA-7733	6,780	±	90	1998a, 1998b
SG11B02	950.1	953.3	996.6	978.9		GrA-2978	6,670	±	90	1998a, 1998b
SG11B03	953.3	956.5	999.6	981.8		GrA-7732	6,770	±	70	1998a, 1998b
SG11B04	956.5	959.7	1002.5	984.8		GrA-7730	6,930	±	70	1998a, 1998b
SG11B05	959.7	962.9	1005.5	987.8		GrA-2981	7,330	±	200	1998a, 1998b
SG11B06	962.9	967.7	1009.3	991.6		GrA-7743	6,990	±	60	1998a, 1998b
SG11A01	967.7	971.0	1013.1	995.3		GrA-7731	6,850	±	70	1998a, 1998b
SG11A03	974.2	977.4	1019.1	1001.3		GrA-7737	7,030	±	70	1998a, 1998b
SG11A06	983.8	987.0	1028.1	1008.8		GrA-7736	6,920	±	70	1998a, 1998b
SG12C01	987.0	990.1	1040.4	1021.2		GrA-2930	7,530	±	100	1998a, 1998b
SG12C05	999.4	1002.5	1053.3	1032.5		GrA-2846	7,445	±	100	1998a, 1998b
SG12C07	1005.6	1007.7	1057.2	1035.9		GrA-6231	7,315	±	85	1998a, 1998b
SG12B04	1017.0	1020.1	1067.5	1045.3		GrA-2888 and 2889	7,500	±	60	1998a, 1998b
SG12B06	1023.3	1027.4	1073.3	1051.0		GrA-2946	7,480	±	100	1998a, 1998b
SG12A01	1027.4	1030.5	1076.4	1054.1		GrA-6230	7,325	±	110	1998a, 1998b
SG13D01	1042.0	1045.3	1096.5	1074.2	8845.1	GrA-6234	7,610	±	70	1998a, 1998b
SG13D04	1051.8	1055.0	1105.7	1083.4	8919.0	GrA-2849	7,805	±	100	1998a, 1998b
SG13D07	1061.5	1064.8	1114.9	1092.7	8998.5	GrA-6233	8,020	±	90	1998a, 1998b
SG13D08	1064.8	1068.0	1118.0	1095.8	9031.8	GrA-6232	8,035	±	90	1998a, 1998b
SG13D09	1069.1	1073.4	1121.6	1099.4	9064.0	GrA-2839	8,150	±	110	1998a, 1998b
SG13C03	1077.8	1081.0	1130.4	1108.1	9128.2	GrA-2914	8,020	±	100	1998a, 1998b
SG13C05	1084.3	1087.5	1136.6	1114.3	9170.6	GrA-6235	8,050	±	80	1998a, 1998b
SG13C06	1087.5	1090.8	1139.6	1117.4	9195.2	GrA-6236	8,035	±	100	1998a, 1998b
SG13C07	1090.8	1094.0	1142.7	1120.5	9215.7	GrA-2840	8,085	±	90	1998a, 1998b
SG13C09	1095.6	1098.3	1147.6	1125.4	9253.2	GrA-2947 and 2948	8,050	±	70	1998a, 1998b
SG13B05	1113.5	1118.4	1164.6	1142.3	9387.6	GrA-2901	8,200	±	105	1998a, 1998b
SG13A04	1126.5	1129.8	1177.7	1155.4	9491.0	GrA-2842	8,635	±	110	1998a, 1998b
SG14D03	1139.5	1142.7	1200.7	1178.4	9587.3	GrA-2843	8,635	±	110	1998a, 1998b
SG14D06	1149.2	1152.5	1209.8	1187.6	9658.3	GrA-3087	8,765	±	80	1998a, 1998b
SG14C01	1156.8	1160.1	1217.2	1194.9	9715.8	GrA-2835	8,775	±	110	1998a, 1998b
SG14C04	1166.6	1169.8	1226.6	1204.4	9784.5	GrA-3085	8,900	±	90	1998a, 1998b
SG14C06	1173.0	1176.3	1232.9	1210.6	9836.3	GrA-3080	9,055	±	90	1998a, 1998b
SG14B02	1182.2	1185.5	1241.7	1219.5	9905.4	GrA-2844	8,845	±	110	1998a, 1998b
SG14B07	1198.5	1201.7	1258.1	1235.4	10042.9	GrA-3082	8,830	±	95	1998a, 1998b
SG14A04	1211.5	1214.7	1269.7	1246.4	10136.5	GrA-2890	8,665	±	110	1998a, 1998b
SG15D01	1225.0	1228.4	1286.6	1262.3	10226.2	GrA-3079	8,970	±	120	1998a, 1998b
SG15D02	1228.4	1231.8	1289.6	1264.4	10250.4	GrA-8184	9,071	±	72	2000
SGD-012	1237.4	1238.6	1300.6	1270.4	10311.5	GrA-10243	9,404	±	74	2000
SG15D05	1238.5	1241.9	1303.4	1272.7	10333.3	GrA-2971	9,280	±	115	1998a, 1998b
SG15D07	1245.3	1248.7	1310.7	1280.1	10389.9	GrA-2845	9,150	±	115	1998a, 1998b
SG15C01	1248.7	1252.1	1314.0	1283.4	10413.9	GrA-2921	9,270	±	115	1998a, 1998b
SG15C03	1255.5	1258.9	1320.5	1289.8	10460.2	GrA-4585	9,260	±	180	1998a, 1998b
SG15C06	1265.6	1269.0	1330.1	1299.4	10520.6	GrA-2915	9,635	±	100	1998a, 1998b
SG15C08	1272.4	1275.8	1335.9	1305.2	10568.0	GrA-3081	9,535	±	80	1998a, 1998b

Appendix 3 (continued):

SG93 sample ID	Depth (cm)		Equivalent SG06 CD (centre; cm)	Equivalent SG06 EFD (centre; cm)	SG93 vyr BP (centre)	AMS target ID	Conventional radiocarbon date (± 1σ)			Reference: Kitagawa and van der Plicht-
	(top)	(bottom)								
SG15B02	1279.2	1282.6	1341.9	1311.3	10614.6	GrA-2847	9,525	±	90	1998a, 1998b
SG15B03	1282.6	1286.0	1345.0	1314.3	10640.7	GrA-2944	9,320	±	90	1998a, 1998b
SG15B05	1289.3	1292.7	1351.1	1320.4	10692.9	GrA-8183	9,356	±	59	2000
SG15B06	1292.7	1296.1	1354.1	1323.5	10718.6	GrA-2913	9,405	±	80	1998a, 1998b
SG15B07	1296.1	1299.5	1357.2	1326.3	10744.7	GrA-2912	9,625	±	100	1998a, 1998b
SG15A01	1303.5	1306.8	1363.7	1332.5	10796.8	GrA-3083	9,555	±	105	1998a, 1998b
SG15A04	1313.6	1317.0	1372.7	1341.5	10868.7	GrA-2907	9,495	±	90	1998a, 1998b
SGD-089	1326.2	1327.4	1403.0	1371.8	11002.3	GrA-10260	10,027	±	84	2000
SG16D06	1334.8	1338.6	1412.4	1381.2	11123.1	GrA-3086	10,075	±	85	1998a, 1998b
SG16C01	1342.5	1345.9	1418.6	1387.5	11197.5	GrA-2904	10,005	±	95	1998a, 1998b
SGD-109	1348.9	1350.0	1422.9	1391.7	11247.8	GrA-10240	10,153	±	76	2000
SG16C03	1349.2	1352.5	1424.0	1392.9	11261.6	GrA-8182	9,963	±	77	2000
SG16C04	1352.5	1355.8	1426.7	1395.6	11290.3	GrA-2905	9,860	±	95	1998a, 1998b
SGD-114	1354.5	1355.7	1427.5	1396.3	11296.9	GrA-10233	10,280	±	87	2000
SG16C05	1355.8	1359.7	1429.7	1398.5	11319.3	GrA-2911	10,125	±	95	1998a, 1998b
SG16B01	1362.5	1365.8	1434.8	1401.4	11371.0	GrA-2961	10,095	±	125	1998a, 1998b
SG16B02	1365.8	1369.2	1437.5	1404.1	11398.9	GrA-2838	10,055	±	100	1998a, 1998b
SG16B04	1372.5	1375.8	1443.1	1409.6	11460.5	GrA-2917	10,145	±	95	1998a, 1998b
SG16B05	1375.8	1379.1	1446.1	1412.6	11490.2	GrA-2916	10,095	±	100	1998a, 1998b
SGD-138	1382.8	1383.3	1451.2	1417.8	11541.9	GrA-10234	10,411	±	121	2000
SG16A02	1385.3	1388.6	1454.8	1421.3	11578.9	GrA-3078	10,285	±	85	1998a, 1998b
SG16A05	1395.2	1398.6	1464.0	1430.5	11681.2	GrA-2902	10,165	±	95	1998a, 1998b
SG16A06	1398.6	1401.9	1467.1	1433.6	11716.0	GrA-2909 and 8181	10,221	±	60	1998a, 1998b, 2000
SG17D01	1408.0	1411.1	1492.1	1458.0	11807.9	GrA-2969	10,100	±	105	1998a, 1998b
SG17D02	1411.1	1414.1	1495.1	1461.0	11848.3	GrA-2836	10,455	±	100	1998a, 1998b
SG17D03	1414.1	1417.2	1498.1	1464.0	11887.3	GrA-1736	10,246	±	80	2000
SG17D06	1423.3	1426.3	1507.0	1473.0	12004.5	GrA-2970	10,395	±	105	1998a, 1998b
SG17D10	1435.5	1438.0	1518.7	1484.7	12142.9	GrA-2981	10,370	±	125	1998a, 1998b
SG17C03	1444.1	1447.2	1527.4	1493.3	12260.9	GrA-2837	10,710	±	110	1998a, 1998b
SG17C04	1447.2	1450.2	1530.4	1496.3	12302.1	GrA-2913	10,590	±	95	1998a, 1998b
SG17B01	1453.3	1456.3	1536.3	1502.3	12367.7	GrA-2906	10,380	±	90	1998a, 1998b
SG17B03	1459.4	1462.4	1542.3	1508.3	12441.0	GrA-8179	10,671	±	84	2000
SG17B04	1462.4	1465.5	1545.3	1511.3	12480.7	GrA-2848	10,670	±	100	1998a, 1998b
SG17B05	1465.5	1468.5	1548.4	1514.4	12518.7	GrA-8178	10,662	±	69	2000
SG17A02	1482.2	1485.3	1565.3	1531.3	12735.8	GrA-2908	10,700	±	100	1998a, 1998b
SG17A04	1488.3	1491.4	1571.2	1537.1	12793.2	GrA-2920	10,915	±	125	1998a, 1998b
SG17A07	1496.5	1498.0	1578.3	1544.2	12857.6	GrA-3077	11,000	±	125	1998a, 1998b
SG18E01	1498.0	1501.0	1582.1	1548.0	12886.8	GrA-4532 and 8177	10,995	±	39	1998a, 1998b, 2000
SGD-248	1499.6	1500.6	1582.7	1548.7	12895.8	GrA-10268	11,179	±	128	2000
SG18E02	1501.0	1504.0	1585.1	1551.0	12928.3	GrA-5634	11,415	±	145	1998a, 1998b
SG18E03	1504.0	1507.0	1588.1	1553.9	12967.2	GrA-5635	11,210	±	90	1998a, 1998b
SG18E04	1507.0	1509.9	1591.2	1556.7	13007.9	GrA-5637	11,335	±	90	1998a, 1998b
SG18E05	1509.9	1512.9	1594.4	1559.8	13047.6	GrA-4533	10,975	±	55	1998a, 1998b
SG18E06	1512.9	1515.9	1597.4	1562.9	13089.3	GrA-5638	11,440	±	110	1998a, 1998b
SG18E07	1515.9	1518.9	1600.4	1565.9	13131.5	GrA-5639	11,480	±	85	1998a, 1998b
SG18D01	1521.4	1524.4	1605.6	1571.0	13212.2	GrA-4534	11,460	±	55	1998a, 1998b
SG18D02	1524.4	1527.3	1608.4	1573.9	13259.9	GrA-5640	11,690	±	85	1998a, 1998b
SGD-274	1525.8	1526.9	1608.9	1574.3	13265.7	GrA-10232	11,755	±	83	2000
SG18D03	1527.3	1530.3	1611.2	1576.7	13310.9	GrA-8190	11,698	±	116	2000

Appendix 3 (continued):

SG93 sample ID	Depth (cm)		Equivalent SG06 CD (centre; cm)	Equivalent SG06 EFD (centre; cm)	SG93 vyr BP (centre)	AMS target ID	Conventional radiocarbon date (± 1σ)			Reference: Kitagawa and van der Plicht-
	(top)	(bottom)								
SG18D04	1530.3	1533.3	1614.0	1579.5	13365.7	GrA-8139	11,716	±	106	2000
SGD-284	1536.0	1537.0	1618.5	1583.8	13444.3	GrA-10238	11,808	±	84	2000
SG18D06	1536.3	1539.3	1619.7	1584.9	13466.5	GrA-1719	12,004	±	78	2000
SG18C01	1539.3	1542.3	1622.6	1587.6	13514.7	GrA-5641	11,830	±	65	1998a, 1998b
SG18C02	1542.3	1544.2	1625.0	1590.0	13555.1	GrA-8176	11,858	±	108	2000
SG18C03	1544.2	1547.2	1627.8	1591.5	13596.8	GrA-8151	12,015	±	96	2000
SG18C04	1547.2	1550.2	1631.5	1592.4	13646.2	GrA-4535	12,028	±	63	1998a, 1998b, 2000
SG18C05	1550.2	1553.2	1635.3	1594.7	13694.5	GrA-8194	12,101	±	126	2000
SG18B01	1553.2	1556.7	1639.3	1598.7	13742.2	GrA-5653	11,980	±	110	1998a, 1998b
SG18B02	1556.7	1559.7	1643.0	1602.3	13790.7	GrA-8175	11,958	±	78	2000
SG18B03	1559.7	1562.6	1645.9	1605.3	13839.7	GrA-4536	12,040	±	55	1998a, 1998b
SG18B04	1562.6	1565.6	1648.8	1608.2	13889.7	GrA-8147	12,333	±	74	2000
SG18B05	1565.6	1568.6	1651.6	1611.0	13940.6	GrA-6206	12,245	±	125	1998a, 1998b
SG18B06	1568.6	1572.1	1654.5	1613.9	13995.0	GrA-4537	12,050	±	85	1998a, 1998b
SG18A01	1572.1	1575.1	1657.3	1616.6	14045.0	GrA-5642	12,250	±	95	1998a, 1998b
SG18A02	1575.1	1578.1	1660.0	1619.4	14091.7	GrA-8189	12,381	±	97	2000
SG18A03	1578.1	1581.0	1662.9	1622.3	14137.4	GrA-8191	12,363	±	185	2000
SG18A04	1581.0	1584.0	1665.9	1625.3	14178.2	GrA-6202	12,270	±	95	1998a, 1998b
SG18A05	1584.0	1587.0	1668.9	1628.3	14217.8	GrA-8148	12,495	±	95	2000
SG18A06	1587.0	1589.0	1671.4	1630.8	14252.4	GrA-5654	12,610	±	295	1998a, 1998b
SG19D01	1589.0	1592.1	1682.8	1641.9	14291.5	GrA-8150	12,683	±	116	2000
SG19D02	1592.1	1595.3	1685.9	1644.8	14341.0	GrA-8143	12,521	±	84	2000
SG19D03	1595.3	1598.4	1688.7	1647.6	14393.6	GrA-4539 and 8185	12,322	±	48	1998a, 1998b, 2000
SG19D04	1598.4	1601.6	1691.6	1650.4	14444.3	GrA-6204	12,410	±	100	1998a, 1998b
SGD-350	1602.4	1603.4	1694.2	1653.1	14488.7	GrA-10231	12,456	±	90	2000
SG19D05	1601.6	1604.7	1694.4	1653.3	14490.6	GrA-5643 and 8188	12,345	±	49	1998a, 1998b, 2000
SG19D08	1601.6	1604.7	1703.5	1662.4	14490.6	GrA-5644 and 8160	12,502	±	70	1998a, 1998b
SG19D07	1607.8	1611.0	1700.4	1659.3	14582.7	GrA-4540	12,320	±	55	
SGD-360	1612.7	1613.8	1704.2	1663.1	14640.3	GrA-10239	12,631	±	86	2000
SG19C01	1614.1	1617.2	1706.6	1665.5	14676.5	GrA-8156	12,656	±	112	2000
SGD-364	1616.8	1617.9	1708.3	1667.1	14704.0	GrA-10235	12,943	±	163	2000
SG19C02	1617.2	1620.4	1709.7	1668.6	14725.1	GrA-8159	12,483	±	87	2000
SG19C04	1623.5	1626.7	1715.9	1674.7	14812.4	GrA-5645	12,520	±	70	1998a, 1998b
SG19C05	1626.7	1629.8	1718.8	1677.7	14858.5	GrA-4541	12,345	±	55	1998a, 1998b
SG19C08	1636.1	1638.2	1726.5	1684.9	14976.5	GrA-8173	12,548	±	57	2000
SG19B01	1638.2	1641.3	1728.9	1687.3	15018.1	GrA-4542	12,490	±	55	1998a, 1998b
SG19B02	1641.3	1644.4	1731.7	1690.1	15068.6	GrA-8135	12,742	±	98	2000
SGD-394	1647.8	1648.8	1736.6	1695.0	15160.0	GrA-10242	12,801	±	154	2000
SG19B04	1647.6	1650.7	1737.3	1695.7	15174.7	GrA-5646	12,625	±	370	1998a, 1998b
SGD-395	1648.8	1649.8	1737.5	1695.9	15177.9	GrA-10237	12,771	±	91	2000
SG19B05	1650.7	1653.9	1740.1	1698.5	15226.2	GrA-4543	12,745	±	75	1998a, 1998b
SG19B06	1653.9	1657.0	1743.0	1701.3	15278.5	GrA-6205	12,705	±	105	1998a, 1998b
SG19B07	1657.0	1660.1	1745.8	1704.2	15338.4	GrA-8140	12,750	±	78	2000
SG19A01	1660.1	1663.3	1748.6	1707.0	15398.9	GrA-8136	12,929	±	92	2000
SG19A03	1667.4	1670.6	1755.2	1713.6	15527.8	GrA-5648	13,440	±	300	1998a, 1998b
SG20D01	1680.0	1683.3	1770.5	1728.9	15738.6	GrA-4550	13,665	±	215	1998a, 1998b
SG20D03	1686.5	1689.8	1776.5	1734.9	15841.0	GrA-5649	13,385	±	165	1998a, 1998b
SG20D04	1689.8	1693.0	1779.6	1738.0	15896.3	GrA-4551	13,015	±	80	1998a, 1998b

Appendix 3 (continued):

SG93 sample ID	Depth (cm) (top)	Depth (cm) (bottom)	Equivalent SG06 CD (centre; cm)	Equivalent SG06 EFD (centre; cm)	SG93 vyr BP (centre)	AMS target ID	Conventional radiocarbon date (± 1σ)	Reference: Kitagawa and van der Plicht-
SG20D05	1693.0	1696.3	1782.8	1741.2	15953.7	GrA-5650 and 8130	13,482 ± 57	1998a, 1998b, 2000
SG20C03	1693.0	1696.3	1798.9	1757.3	15953.7	GrA-4552 and 8128	13,627 ± 46	1998a, 1998b
SG20C01	1702.8	1706.0	1792.5	1750.9	16116.8	GrA-5636	13,105 ± 110	2000
SG20C02	1706.0	1709.3	1795.7	1754.1	16160.1	GrA-8134	13,612 ± 70	1998a, 1998b,
SG20C05	1715.8	1719.0	1805.4	1763.8	16324.8	GrA-5651	13,885 ± 80	1998a, 1998b
SG20C06	1719.0	1722.3	1808.6	1767.0	16379.7	GrA-4553	13,855 ± 125	1998a, 1998b
SG20B01	1726.0	1729.3	1815.6	1773.9	16500.8	GrA-6203 and 8142	14,217 ± 76	1998a, 1998b, 2000
SG20B02	1729.3	1732.5	1818.8	1777.2	16552.6	GrA-4554	13,815 ± 70	1998a, 1998b
SG20B03	1732.5	1735.8	1822.0	1780.4	16605.0	GrA-8133	14,159 ± 116	2000
SG20B04	1735.8	1739.0	1825.2	1783.6	16660.1	GrA-5652	14,295 ± 85	1998a, 1998b
SG20A03	1755.3	1758.5	1842.2	1800.6	16954.7	GrA-4555	14,440 ± 95	1998a, 1998b
SG20A05	1761.8	1765.0	1847.3	1805.7	17050.3	GrA-8132	14,582 ± 93	2000
SG21D04	1779.8	1782.7	1869.5	1826.9	17342.0	GrA-4556	14,695 ± 60	1998a, 1998b
SG21D06	1785.7	1788.6	1876.3	1833.7	17439.9	GrA-8193	14,736 ± 80	2000
SG21D07	1788.6	1791.5	1879.6	1837.0	17482.6	GrA-4557	14,595 ± 90	1998a, 1998b
SG21D08	1791.5	1793.5	1882.3	1839.7	17519.4	GrA-8113	14,631 ± 113	2000
SG21C02	1796.4	1799.3	1888.1	1845.5	17606.3	GrA-4558	14,630 ± 60	1998a, 1998b
SG21C03	1799.3	1802.3	1891.3	1848.7	17657.2	GrA-4559	14,860 ± 195	1998a, 1998b
SG21C04	1802.3	1805.2	1894.5	1851.9	17705.3	GrA-8116	15,245 ± 149	2000
SG21C05	1805.2	1808.1	1897.6	1855.0	17750.2	GrA-8111	15,277 ± 80	2000
SG21C06	1808.1	1811.0	1900.6	1858.0	17796.5	GrA-8120	15,202 ± 90	2000
SG21C07	1811.0	1814.0	1903.6	1861.0	17841.2	GrA-4556	15,125 ± 185	1998a, 1998b
SG21B01	1814.0	1816.9	1906.6	1864.0	17886.8	GrA-8119	15,385 ± 119	2000
SG21B02	1816.9	1819.8	1909.6	1867.0	17933.1	GrA-8112	15,540 ± 209	2000
SG21B03	1819.8	1822.8	1912.5	1869.9	17980.8	GrA-4561	15,755 ± 270	1998a, 1998b
SG21B04	1822.8	1825.7	1915.5	1872.9	18032.3	GrA-5658	15,480 ± 140	1998a, 1998b
SG21B05	1825.7	1828.6	1918.5	1875.9	18083.8	GrA-5668	15,730 ± 145	1998a, 1998b
SG21B06	1828.6	1831.6	1921.7	1879.1	18134.1	GrA-8114	15,857 ± 81	2000
SG21A02	1837.4	1840.3	1931.2	1888.3	18288.0	GrA-8186	15,991 ± 82	2000
SG21A03	1840.3	1843.3	1934.1	1891.0	18339.2	GrA-8192	16,044 ± 77	2000
SG21A05	1846.2	1850.1	1940.5	1896.3	18452.2	GrA-4562	15,695 ± 180	1998a, 1998b
SG22D03	1862.1	1866.1	1960.0	1911.4	18708.7	GrA-4564	15,915 ± 230	1998a, 1998b
SG22D06	1872.7	1875.2	1970.0	1920.7	18837.3	GrA-4565	15,990 ± 180	1998a, 1998b
SG22C02	1877.3	1880.3	1975.2	1925.4	18904.3	GrA-8124	16,346 ± 94	2000
SG22C03	1880.3	1883.3	1978.8	1929.0	18954.0	GrA-8118	16,570 ± 125	2000
SG22C04	1883.3	1886.4	1982.2	1932.3	19007.3	GrA-8123	16,698 ± 127	2000
SG22C06	1889.4	1894.5	1989.2	1939.4	19131.3	GrA-4566	16,280 ± 195	1998a, 1998b
SG22C07	1894.5	1896.5	1992.7	1942.9	19195.8	GrA-8122	16,678 ± 206	2000
SG22B02	1899.5	1902.6	1998.2	1948.4	19293.1	GrA-5669	16,750 ± 220	1998a, 1998b
SG22B03	1902.6	1905.6	2001.2	1951.4	19347.2	GrA-8115	16,640 ± 263	2000
SG22B04	1905.6	1908.6	2004.2	1954.4	19398.1	GrA-5668	16,700 ± 178	1998a, 1998b
SG22B05	1908.6	1912.7	2007.7	1956.9	19459.9	GrA-4567	17,065 ± 240	1998a, 1998b
SG22B06	1912.7	1915.7	2011.3	1959.5	19526.0	GrA-8127	17,106 ± 167	1998a, 1998b
SG22A01	1917.7	1920.8	2016.8	1965.0	19617.4	GrA-4586	17,135 ± 170	1998a, 1998b
SG22A03	1924.8	1926.9	2023.8	1972.0	19745.8	GrA-8155	16,952 ± 79	2000
SG22A04	1926.9	1929.9	2026.4	1974.6	19795.6	GrA-4569	16,950 ± 185	1998a, 1998b
SG22A05	1929.9	1932.9	2029.4	1977.6	19853.9	GrA-4570 and 8187	17,145 ± 90	1998a, 1998b, 2000
SG22A06	1932.9	1936.0	2032.4	1980.6	19911.0	GrA-5660	17,380 ± 240	1998a, 1998b

Appendix 3 (continued):

SG93 sample ID	Depth (cm)		Equivalent SG06 CD (centre; cm)	Equivalent SG06 EFD (centre; cm)	SG93 vyr BP (centre)	AMS target ID	Conventional radiocarbon date (± 1σ)			Reference: Kitagawa and van der Plicht-
	(top)	(bottom)								
SG23D02	1943.2	1946.3	2040.7	1988.1	20112.8	GrA-10245	17,221	±	117	2000
SG23-4	1968.9	1969.8	2064.3	2011.0	20596.8	GrA-6193	17,745	±	140	1998a, 1998b
SG23C04	1971.5	1974.6	2067.3	2012.2	20660.0	GrA-10246	17,203	±	177	2000
SG23C05	1974.6	1977.7	2069.9	2013.4	20713.9	GrA-10247	17,469	±	128	2000
SG23C07	1980.9	1984.0	2075.7	2019.0	20821.9	GrA-10269	17,451	±	208	2000
SG23B04	1993.4	1996.6	2087.6	2030.9	21042.9	GrA-10249	17,747	±	162	2000
SG23B06	1999.7	2002.9	2094.1	2037.4	21148.0	GrA-10248	17,433	±	201	2000
SG23A01	2006.0	2009.2	2100.5	2043.8	21246.5	GrA-10270	17,957	±	201	2000
SG23A03	2012.3	2015.4	2107.0	2050.3	21355.3	GrA-10250	18,240	±	228	2000
SG23A07	2024.9	2028.0	2119.4	2062.7	21542.0	GrA-10252	17,962	±	127	2000
SG24E01	2028.0	2031.0	2125.4	2068.7	21593.9	GrA-10253	17,973	±	126	2000
SG24E02	2031.0	2034.0	2128.6	2071.7	21648.6	GrA-10254	18,088	±	226	2000
SG24-5	2050.5	2051.6	2151.4	2093.7	21970.3	GrA-6192	18,810	±	110	1998a, 1998b
SG24D03	2051.1	2054.1	2153.4	2095.7	21999.1	GrA-10255	18,769	±	132	2000
SG24-4	2053.8	2054.8	2155.4	2097.7	22029.1	GrA-6191	18,975	±	290	1998a, 1998b
SG24D04	2054.1	2057.2	2157.1	2099.3	22053.4	GrA-10383	18,781	±	201	2000
SG24D05	2057.2	2060.2	2160.2	2102.5	22107.9	GrA-10256	18,831	±	146	2000
SG24-3	2064.9	2065.9	2166.7	2109.0	22217.8	GrA-6190	19,370	±	135	1998a, 1998b
SG24C02	2068.7	2071.7	2171.3	2113.6	22298.9	GrA-10258	18,931	±	453	2000
SG24B05	2094.9	2097.9	2196.6	2138.9	22719.0	GrA-10262	19,027	±	388	2000
SG24B08	2103.9	2105.9	2205.1	2147.3	22858.3	GrA-10263	19,191	±	131	2000
SG24-1	2106.4	2107.4	2207.0	2149.3	22892.3	GrA-6189	19,425	±	305	1998a, 1998b
SG24A01	2105.9	2108.9	2207.5	2149.8	22900.5	GrA-10261	19,755	±	139	2000
SG25E05	2131.1	2134.1	2232.7	2174.5	23305.7	GrA-10264	19,810	±	203	2000
SG25E06	2134.1	2137.1	2236.3	2177.1	23358.5	GrA-10265	19,457	±	201	2000
SG25D01	2140.2	2143.2	2246.0	2179.6	23467.5	GrA-10266	20,041	±	207	2000
SG25-2	2149.0	2150.1	2254.8	2188.2	23609.2	GrA-6188	19,830	±	365	1998a, 1998b
SG25C02	2163.3	2166.3	2270.5	2202.7	23859.4	GrA-19401	20,115	±	201	2000
SG25-1	2175.0	2176.0	2281.8	2214.0	24038.4	GrA-6187	20,630	±	130	1998a, 1998b
SG25C06	2175.3	2178.4	2283.2	2215.4	24063.0	GrA-10361	20,428	±	147	2000
SG25C08	2181.4	2183.4	2289.2	2220.9	24163.4	GrA-10362	20,503	±	446	2000
SG25B03	2189.4	2192.4	2297.8	2229.5	24323.7	GrA-10367	20,537	±	562	2000
SG26D01	2210.0	2213.0	2329.2	2260.4	24660.8	GrA-10360	20,826	±	151	2000
SG26D03	2216.1	2219.1	2335.2	2266.2	24781.6	GrA-10368	21,059	±	151	2000
SG26C01	2234.3	2237.4	2355.9	2285.0	25127.3	GrA-10404	21,274	±	201	2000
SG26B03	2263.7	2266.7	2389.3	2317.9	25604.2	GrA-10369	22,055	±	264	2000
SG26-3	2264.8	2266.9	2390.0	2318.6	25614.2	GrA-6186	22,600	±	440	1998a, 1998b
SG26B05	2269.8	2272.8	2396.2	2324.8	25705.8	GrA-10370	22,078	±	157	2000
SG26-2	2277.9	2278.9	2403.9	2332.5	25810.9	GrA-6185	22,630	±	220	1998a, 1998b
SG26A01	2278.9	2281.9	2406.1	2334.7	25839.1	GrA-10371	22,281	±	159	2000
SG26A02	2281.9	2285.0	2409.5	2338.0	25882.8	GrA-10372	22,280	±	171	2000
SG26-1	2285.6	2286.6	2412.3	2340.9	25923.4	GrA-6184	23,170	±	150	1998a, 1998b
SG26A03	2285.0	2288.0	2412.8	2341.3	25930.2	GrA-10373	22,233	±	386	2000
SG26A07	2297.2	2301.0	2425.3	2353.9	26130.8	GrA-10375	22,298	±	264	2000
SG27-7	2311.3	2312.3	2440.0	2368.6	26343.4	GrA-6183	23,400	±	500	1998a, 1998b
SG27-5	2333.9	2334.9	2467.7	2396.3	26705.1	GrA-6182	24,495	±	270	1998a, 1998b
SG27-4	2336.2	2337.3	2470.1	2398.7	26749.6	GrA-6181	23,890	±	210	1998a, 1998b
SG27-3	2339.5	2340.6	2473.5	2402.1	26804.6	GrA-6180	23,970	±	170	1998a, 1998b
SG27C06	2344.7	2347.8	2479.9	2408.5	26906.6	GrA-15726	23,230	±	120	unpublished
SG27-2	2355.5	2356.5	2490.0	2418.6	27053.9	GrA-6179	24,595	±	265	1998a, 1998b
SG27B3	2356.8	2359.8	2492.4	2421.0	27087.9	GrA-15728	23,730	±	120	unpublished
SG27A4	2380.9	2384.0	2516.4	2443.0	27449.9	GrA-15731	24,270	±	130	unpublished

Appendix 3 (continued):

SG93 sample ID	Depth (cm) (top)	Depth (cm) (bottom)	Equivalent SG06 CD (centre; cm)	Equivalent SG06 EFD (centre; cm)	SG93 vyr BP (centre)	AMS target ID	Conventional radiocarbon date (± 1σ)			Reference: Kitagawa and van der Plicht-
SG28-4	2406.2	2407.2	2544.4	2470.5	27812.1	GrA-6178	24,700	±	270	1998a, 1998b
SG28-3	2408.7	2409.7	2547.1	2473.1	27854.8	GrA-6177	25,130	±	185	1998a, 1998b
SG28D05	2405.4	2408.6	2544.7	2470.8	27818.0	GrA-15723 and 15724	25,340	±	100	unpublished
SG28D06	2408.6	2412.6	2548.5	2474.6	27877.6	GrA-15718, 15719, 17520 and 15721	25,355	±	70	unpublished
SG28-2	2433.0	2434.0	2569.1	2495.2	28282.7	GrA-6176	24,545	±	270	1998a, 1998b
SG28A5/6	2470.0	2477.0	#N/A	#N/A	28889.2	GrA-15729	26,080	±	160	unpublished
SG29D3	2500.4	2503.6	2650.8	2536.1	29246.6	GrA-15725	23,780	±	120	unpublished
SG29-3	2508.6	2509.6	2656.0	2541.0	29363.6	GrA-6173	25,980	±	670	1998a, 1998b
SG29-2	2537.7	2538.7	2682.4	2566.9	29867.9	GrA-6172	25,840	±	670	1998a, 1998b
SG29C07	2538.7	2542.0	2684.5	2569.0	29895.4	GrA-15722	25,850	±	140	unpublished
SG29B4/3	2548.4	2554.8	#N/A	#N/A	30039.2	GrA-15727	25,880	±	165	unpublished
SG29-1	2560.5	2561.6	2705.4	2589.8	30171.1	GrA-6171	25,445	±	190	1998a, 1998b
SG29B7/8	2561.2	2563.8	2706.8	2591.3	30187.8	GrA-15732	25,160	±	140	unpublished
SG30D06	2600.9	2604.5	2755.7	2640.2	30816.3	GrA-10381	28,528	±	146	2000
SG30C01	2604.5	2607.6	2758.7	2643.2	30878.8	GrA-10378	28,136	±	287	2000
SG30C03	2610.7	2613.8	2764.2	2648.7	30989.9	GrA-10380	28,857	±	290	2000
SG30C04	2613.8	2616.8	2767.0	2651.4	31048.7	GrA-10376	28,769	±	233	2000
SG30-5	2622.9	2623.9	2774.5	2659.0	31200.4	GrA-6168	26,460	±	215	1998a, 1998b
SG30C07	2623.0	2626.1	2775.6	2660.1	31221.6	GrA-10395	27,424	±	667	2000
SG30C10	2632.3	2635.3	2785.2	2669.2	31383.0	GrA-10388	27,524	±	719	2000
SG30B01	2635.3	2637.4	2787.9	2671.8	31427.6	GrA-10389	28,959	±	229	2000
SG30-4	2635.9	2636.9	2787.9	2671.9	31429.5	GrA-6169	27,880	±	235	1998a, 1998b
SG30B05	2646.6	2649.2	2799.9	2683.6	31597.6	GrA-10391	29,449	±	186	2000
SG30A04	2658.5	2661.6	2812.6	2695.0	31784.1	GrA-10390	30,265	±	331	2000
SG30R-1	2661.0	2662.1	2814.5	2696.5	31808.6	GrA-6174	28,495	±	250	1998a, 1998b
SG30-3	2662.9	2664.0	2816.7	2698.3	31837.2	GrA-6170	28,220	±	245	1998a, 1998b
SG30-1	2671.2	2672.3	2824.8	2706.4	31947.1	GrA-6167	28,495	±	255	1998a, 1998b
SG31-7	2697.8	2698.9	2851.7	2732.5	32328.4	GrA-5618	30,080	±	200	2000
SG31D08	2698.8	2695.5	2853.6	2734.3	32362.7	GrA-10415	30,471	±	1,062	1998a, 1998b
SG31C02	2709.2	2712.5	2862.8	2743.6	32532.0	GrA-10416	31,307	±	772	2000
SG31-6	2716.0	2717.1	2868.4	2749.2	32613.2	GrA-5617	30,010	±	310	1998a, 1998b
SG31C04	2715.8	2719.1	2869.2	2750.0	32627.7	GrA-10417	30,356	±	698	2000
SG31-5	2732.0	2733.1	2883.5	2764.3	32842.1	GrA-5616	31,545	±	340	1998a, 1998b
SG31-4	2739.5	2740.6	2890.5	2771.3	32979.4	GrA-5615	31,545	±	335	1998a, 1998b
SG31B05	2741.0	2744.3	2893.0	2773.7	33021.1	GrA-10419	31,751	±	813	2000
SG31-1	2751.3	2752.4	2901.5	2782.3	33168.9	GrA-5613	31,345	±	355	1998a, 1998b
SG31-3	2760.9	2762.0	2910.3	2791.1	33326.7	GrA-5614	31,547	±	330	1998a, 1998b
SG31-7	2764.1	2765.2	2913.2	2794.0	33379.6	GrA-5625	31,190	±	360	1998a, 1998b
SG32F03	2770.0	2773.2	2937.6	2818.4	33498.2	GrA-10422	31,375	±	763	2000
SG32-6	2791.7	2792.7	2951.3	2832.0	33862.4	GrA-5624	32,140	±	260	1998a, 1998b
SG32D02	2797.8	2801.0	2958.3	2839.1	33969.5	GrA-10426	33,975	±	743	2000
SG32-5	2800.1	2801.2	2959.4	2840.2	33989.3	GrA-5623	32,875	±	370	1998a, 1998b
SG32C01	2804.2	2807.4	2964.0	2844.8	34076.3	GrA-10429	34,936	±	1,180	2000
SG32-4	2806.5	2807.5	2965.1	2845.8	34093.7	GrA-5622	32,825	±	380	1998a, 1998b
SG32C02	2807.4	2810.7	2966.9	2847.7	34122.0	GrA-10430	34,497	±	1,472	2000
SG32-2	2812.8	2813.9	2970.9	2851.6	34185.5	GrA-5620	33,475	±	345	1998a, 1998b
SG32-1	2855.1	2856.2	3009.4	2890.2	34849.4	GrA-5619	33,070	±	730	1998a, 1998b
SG33-4	2913.3	2914.4	3075.9	2955.7	35741.0	GrA-5626	33,270	±	680	1998a, 1998b

Appendix 3 (continued):

SG93 sample ID	Depth (cm)		Equivalent SG06 CD (centre; cm)	Equivalent SG06 EFD (centre; cm)	SG93 vyr BP (centre)	AMS target ID	Conventional radiocarbon date (± 1σ)			Reference: Kitagawa and van der Plicht-
	(top)	(bottom)								
SG33-3	2920.1	2921.2	3082.4	2962.2	35856.6	GrA-5627	32,640	±	330	1998a, 1998b
SG34-2	2976.0	2977.2	3153.8	3022.1	36805.6	GrA-5631	34,950	±	415	1998a, 1998b
SG34-4	2993.7	2994.9	3166.8	3035.0	37097.2	GrA-5632	35,140	±	415	1998a, 1998b
SG34B06	2994.3	2997.8	3168.1	3036.3	37125.5	GrA-10434	35,322	±	1,249	2000
SG34-3	3012.6	3013.7	3180.0	3048.1	37404.4	GrA-5633	35,070	±	460	1998a, 1998b

Appendix 4: Method development for graphitisation of very small mass samples.

(a): Introduction

As at other radiocarbon laboratories, ORAU continues to hone its methodology to produce ever more robust radiocarbon determinations. However, the very small masses of the samples analysed in the current project required further methodological refinements specific to these smaller than usual sample sizes. The most significant stage of the radiocarbon dating process that was more heavily tailored to these smaller mass samples was that of graphite target production for AMS. As with the regular mass samples ('normal'-, G, and small-, g, AMS targets), the aim was to maximise graphite yields from the quantities of carbon present. Therefore, an important aspect of the present project was to optimise the graphitisation process for very small mass samples before the majority of Suigetsu samples could be processed (DPhil objective ii). The exact nature of this problem, the various parameters examined, and the results obtained for this very small graphite (vsg) target production is discussed below.

(b): Chemical reactions

The graphite pressed into AMS targets at ORAU is formed through hydrogen reduction of carbon dioxide (itself produced by combustion of the pre-treated sample material) over an iron catalyst (Vogel *et al*. 1984), with an overall graphitisation equation of:

[A.1] $CO_{2\,(g)} + 2H_{2\,(g)} \rightarrow C_{(s)} + 2H_2O_{(g)}$

This overall reaction is produced as the net result of the competing equilibria equations:

[A.2] $CO_{2\,(g)} + H_{2\,(g)} \leftrightarrow CO_{(g)} + H_2O_{(g)}$

[A.3] $CO_{(g)} + CO_{(g)} \leftrightarrow C_{(s)} + CO_{2\ (g)}$

[A.4] $CO_{(g)} + H_{2\ (g)} \leftrightarrow C_{(s)} + H_2O_{(g)}$

[A.5] $CO_{(g)} + 3H_{2\ (g)} \leftrightarrow CH_{4\ (g)} + H_2O_{(g)}$ (Dee and Bronk Ramsey 2000).

The imposed reaction conditions determine the prevalence of each of the above equilibria. These physical parameters were therefore the subject of investigation into optimising very small mass sample graphite (vsg) production, and include temperature settings, reaction ratios, and the type and purity of catalyst used.

(c): Graphitisation of 'normal' sample sizes

Dee and Bronk Ramsey (2000) discuss the above factors for graphitisation of 'normal' (i.e. 'large-' and 'small-', rather than 'very small- mass') samples. As this study was also performed at ORAU – on essentially the same equipment and operating under the same laboratory conditions as the present study – this seemed a good starting point from which to develop the very small mass graphitisation methodology. Their experiments, performed with samples of ≈ 1.8 mg C in 10 ml reaction vessels, suggested that optimal conditions were obtained with an H_2:CO_2 ratio of 2.4:1, a starting pressure of 1150 mbar (580 mbar for the small mass, ≈ 0.9 mg C samples), a catalyst of 2.0 to 2.5 mg Aldrich, < 10 μm, ≥ 99.9% purity Fe powder, and heating at 560 °C for 4 hours. The pre-reduction ('out-gassing') stage was deemed to require an H_2 pressure of 500 mbar and heating at 450 °C for 1 hour, with the reactor rig's water trap set at 5 °C. These conditions are summarised in figure A4.1.

Changing quantities of Fe (from 0 to 6 mg) markedly altered the nature of the graphite produced. Very little catalyst yielded abundant, fluffy graphite, whilst larger quantities of Fe produced more granular graphite, caking the Fe surface (Dee and Bronk Ramsey 2000).

When very small quantities of Fe were used, the graphite produced was finely divided, being difficult to consolidate into the target for pressing.

Figure A4.1: The regular graphitisation procedure performed at ORAU (according to ORAU laboratory protocols), as developed from the optimal parameters determined by Dee and Bronk Ramsey (2000).

1. *Pre-reduction*: reaction rig assembled. Fe is then pre-reduced ("out-gassed") by loading the rig with H_2 (99.999%) at 500mbar and subsequently heated for 1 hour at 450˚C. Pre-reduction rids the Fe surface of any adsorbed C (Vogel *et al*. 1984, 1987).

↓

2. *Reduction*: CO_2 liberated by sample combustion is trapped into the rig using liquid N_2. Excess H_2 is added proportionally according to sample size (with an H2:CO2 ratio of between 2.00 and 2.50). The rig is replaced in the oven and heated for 6 hours at 560˚C.

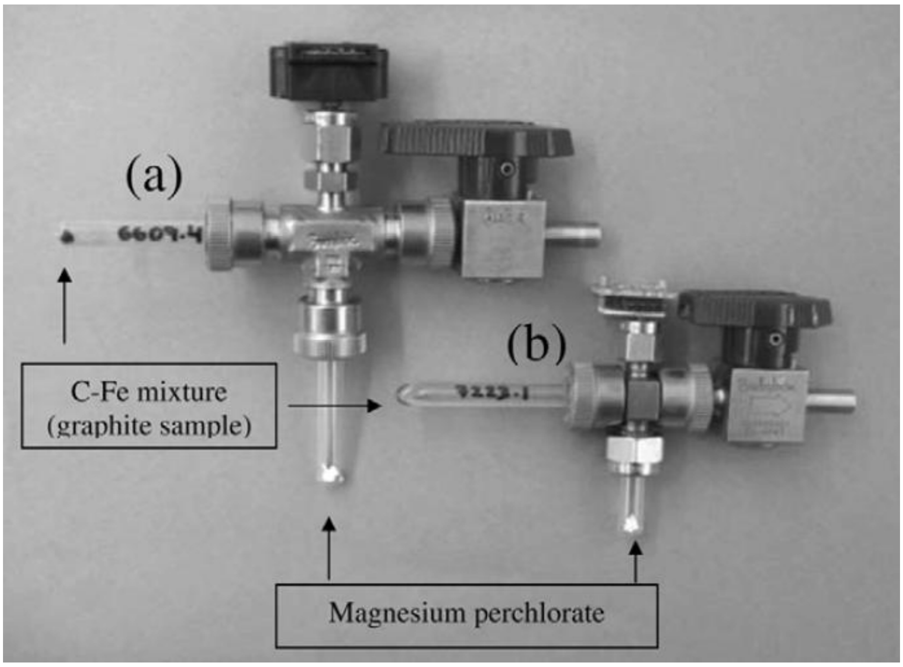
↓

3. *Target preparation*: Residual pressure is measured to check for adequate conversion (>95%) to graphite. The graphite is subsequently pressed into AMS target heads, applying 350mbar pressure for 20 seconds.

(d): Method development for very small mass samples

From the above discussion of regular-sized samples, I shall now turn to the specifics of ultra small-mass sample preparation. Santos *et al*. (2007) investigated such issues and found that a graphitisation (reduction) temperature of 450 °C was preferable for the smallest samples (i.e. graphite samples < 0.05 mg C), rather than the 550 °C used for their larger 0.1 to 1.0 mg C samples at the University of California Irvine radiocarbon facility (i.e. very close to the 560 °C used with the ORAU apparatus). In order to optimise yields, this alteration to reduction temperature was coupled with a lower volume reactor rig (≈ 1.6 cm^3, instead of the normal ≈ 3.1 cm^3; figure A4.2), enabling yields as high as 100% on graphite samples of < 0.006 mg C.

Figure A4.2: The regular- **(a)** and modified- **(b)** reactors (rigs) used at the University of California Irvine radiocarbon facility for graphitisation of: **(a)** large- and small mass samples; and **(b)** 'ultra small mass' samples. Reactor volumes are ≈ 3.1 cm^3 and ≈ 1.6 cm^3, respectively. (Source: Santos *et al*. 2007.)



Santos *et al*. (2007) also note the effect of decreasing the amount of catalyst used during graphitisation (from between 4 and 5 mg to 2 mg Fe in their investigations). In this way, they were able to increase AMS ion beam current intensity by ≥ 15% for regular size sample material. When they repeated such experiments with the smaller mass samples (from 0.004 to 0.1 mg C) these authors initially did find similar higher ion beam currents, but these currents "did not last long and collapsed dramatically as the sample was being sputtered by the caesium beam". Thus, the upshot was a decrease in ^{14}C:^{12}C and ^{13}C:^{12}C accuracies as compared with their normal 4 to 5 mg Fe graphitisations. As already noted, the ORAU protocol already utilises a catalyst mass of 2.0 to 2.5 mg. The Santos *et al*. (2007) study suggests that a reduction of catalyst mass would not prove fruitful, but did provide another variable to examine.

For the regular-sized samples, Dee and Bronk Ramsey (2000) discuss the temperature settings for the rigs' water traps during the graphitisation process and concluded that, with the ORAU apparatus set-up, sub-zero temperature settings for the traps are not necessary. The addition of the desiccants magnesium perchlorate [$Mg(ClO_4)_2$] and phosphorous pentoxide (P_2O_5) were found to yield slight improvement in yields, but not significantly so as to recommend adoption of the method given the problems involved in handling, which occasionally led to sample contamination. The Santos *et al*. group did use $Mg(ClO_4)_2$ in their methodology, however, and since smaller mass sample sizes might be even more sensitive to the water vapour pressure present (which fundamentally affects the dynamics of the reaction), the use of desiccants in the water trap were again investigated for the present study.

(e): Results of 'non-collection' burns

Empirical findings for the method testing of the very small mass sample graphitisation parameters are demonstrated in figure A4.3, with data plotted according to whether or not the desiccant magnesium perchlorate [$Mg(ClO_4)_2$] was used in the rigs' water traps. Most of the experiments used ≈ 100 μg of carbon as the pre-graphitisation input, although a small number of experiments used smaller masses (six at ≈ 75 μg and six at ≈ 50 μg). Results are expressed as 'percentage retrieval' – i.e the mass of carbon measured upon re-combustion ('re-burning') of the graphitised carbon and iron mixture, expressed as a percentage of the mass of carbon that was loaded into the graphite rig prior to initial graphitisation.

Despite the predictable experimental ‘noise’, some significant trends are nevertheless evident. The most significant factor in improving carbon yield was found to be the presence of magnesium perchlorate in the rigs’ water traps (responsible for 30.3% of the total variation). The presence of the desiccant generated significantly higher carbon yields when graphitisation was performed under otherwise normal conditions (pre-reduction at 450 °C, graphitisation at 560 °C), averaging 54.0% carbon retrieval with the desiccant as opposed to 14.0% without.

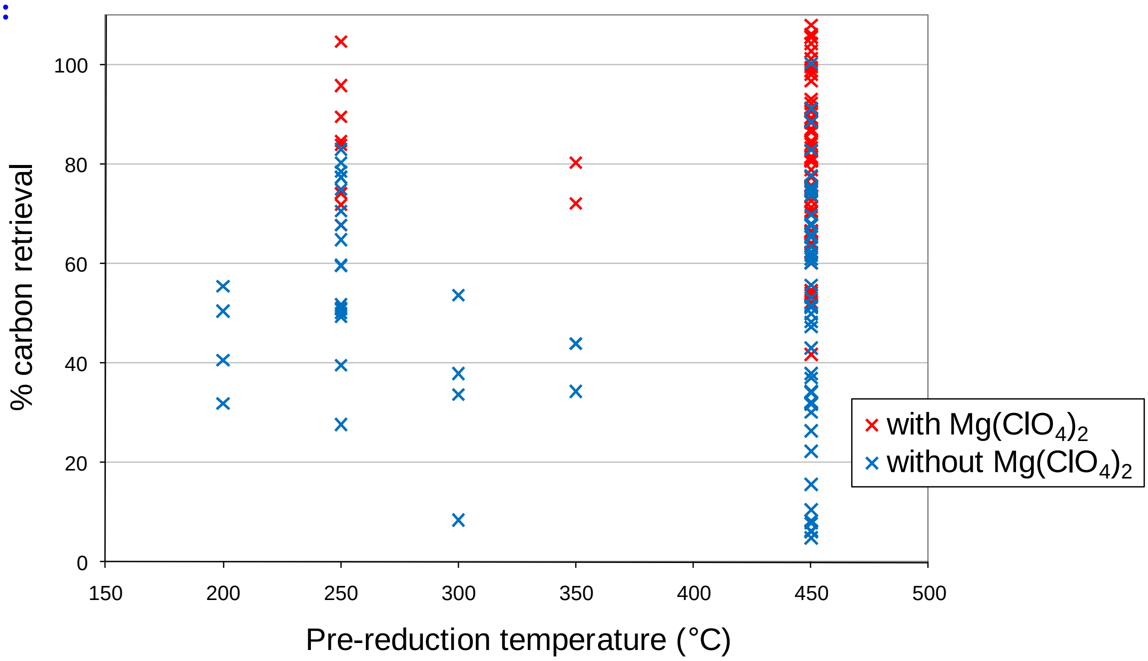
Graphitisation temperature also proved to be an important variable (figure A4.3b). For the samples graphitised without the presence of magnesium perchlorate in the water traps, there was a clear trend (adjusted $R^2 = 32.0\%$; $p < 0.0005$) towards higher carbon retrieval rates with cooler graphitisation temperatures (over the range examined of 440 °C to 560 °C). This trend was not apparent, however, when magnesium perchlorate was present in the water traps, where carbon percentage retrieval averaged between 50% and 60% irrespective of the graphitisation temperature over the temperature range examined.

Fewer experiments were performed with altered pre-reduction temperatures, however the data that were collected demonstrate no apparent relationship with re-burnt carbon yields (figure A4.3a).

There is also no relationship apparent between the percentage of carbon retrieved and the mass of iron catalyst used in the rigs’ graphitisation tubes (figure 4.7c). Iron was only allowed to vary between the values of 2.0 mg and 2.5 mg determined by Dee and Bronk Ramsey (2000), however, and investigations will continue with lower Fe values than these.

Figure A4.3: Results for optimising the graphitisation of very small mass samples ('vsgs'), plotting percentage carbon retrieval upon re-burning of ≈ 100 µg samples plotted against: **(a)** pre-reduction temperature; **(b)** graphitisation temperature; **(c)** mass of iron catalyst; **(d)** H_2:CO_2 ratio; **(e)** residual ('log-off') pressure; **(f)** $\delta^{13}C$; and **(g)** mass of re-burnt material.

(a):



(b):

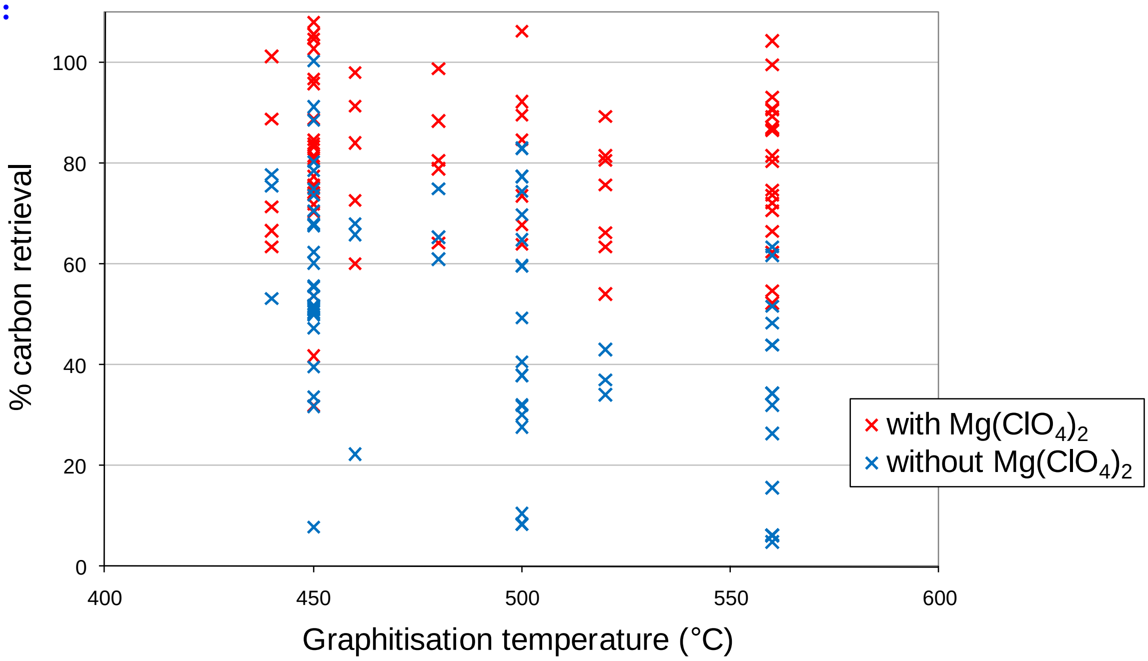
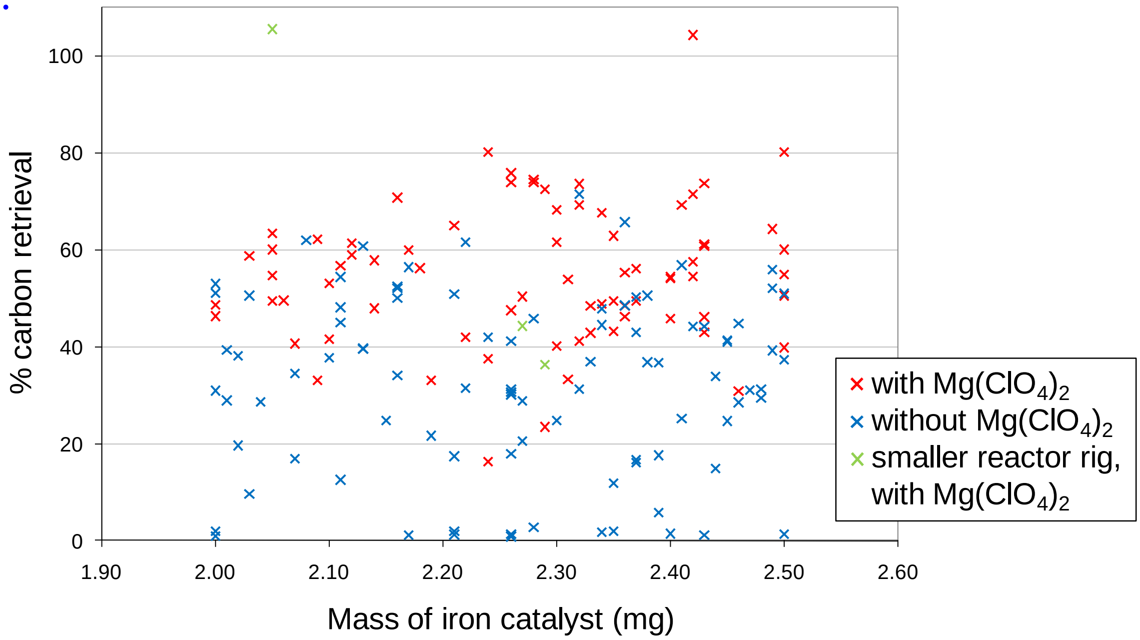


Figure A4.3 (continued):

(c):



(d):

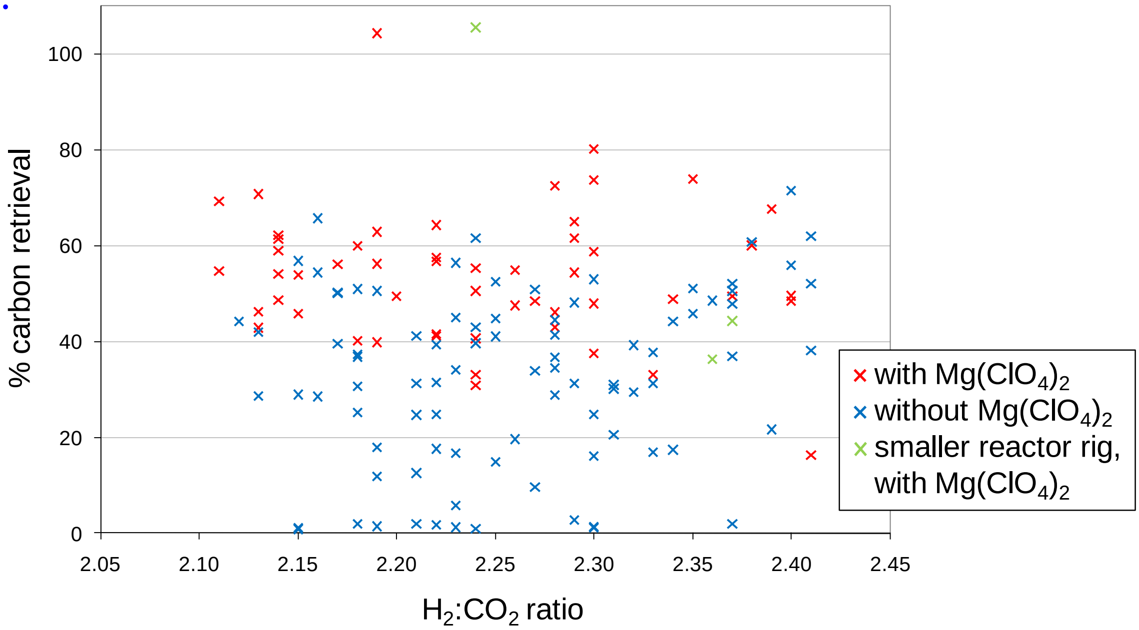
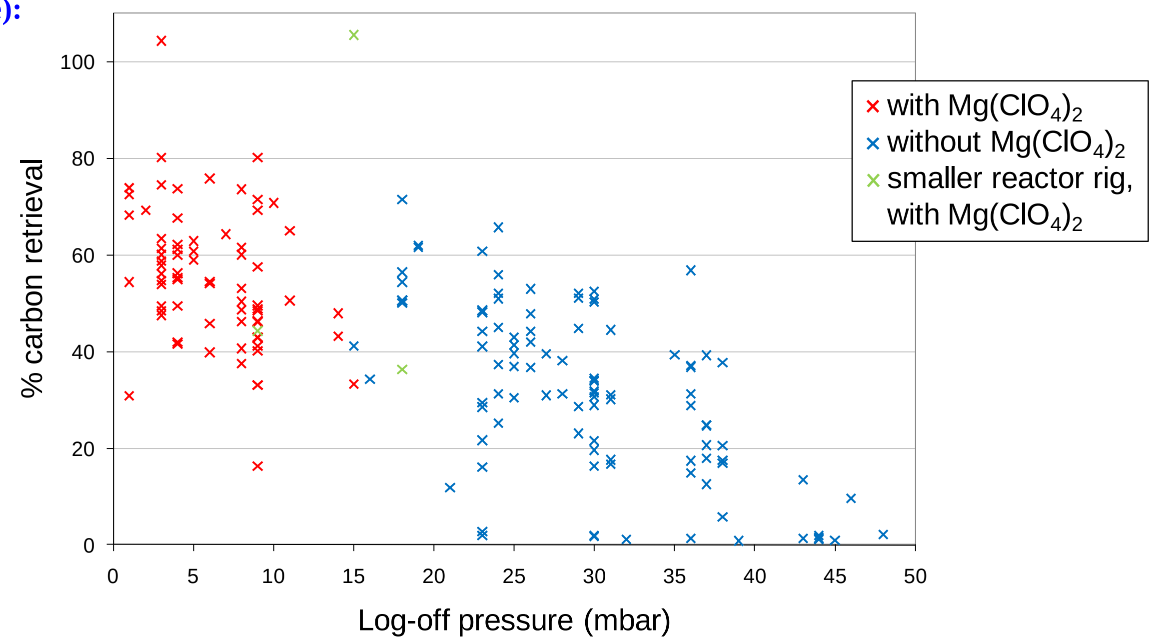


Figure A4.3 (continued):

(e):



(f):

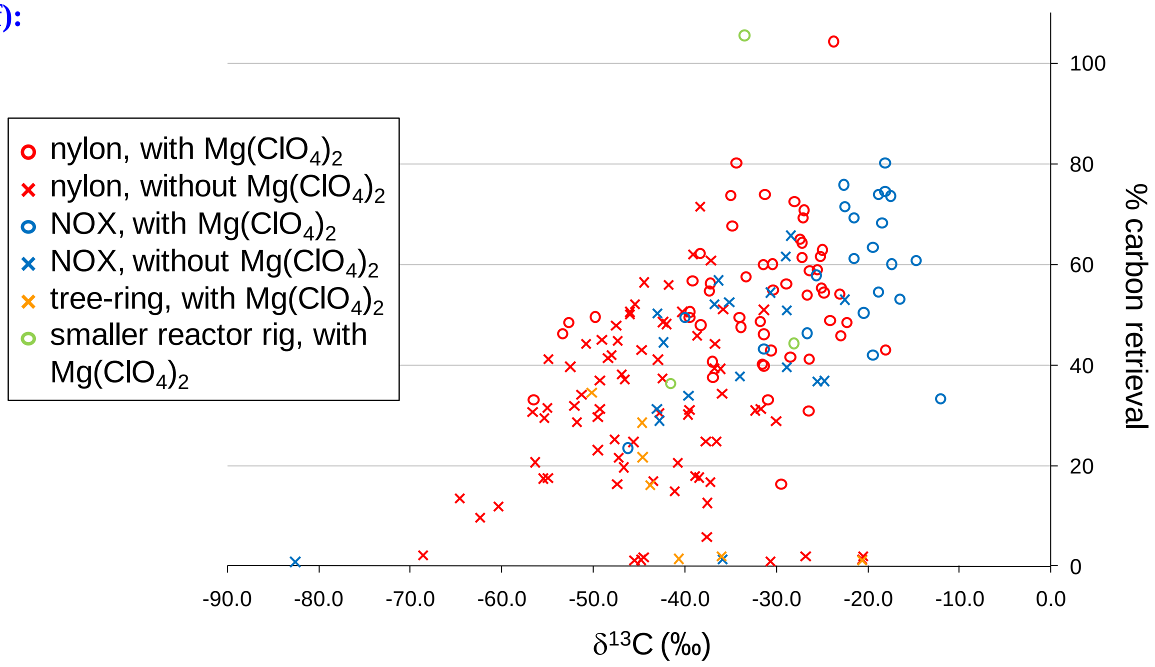
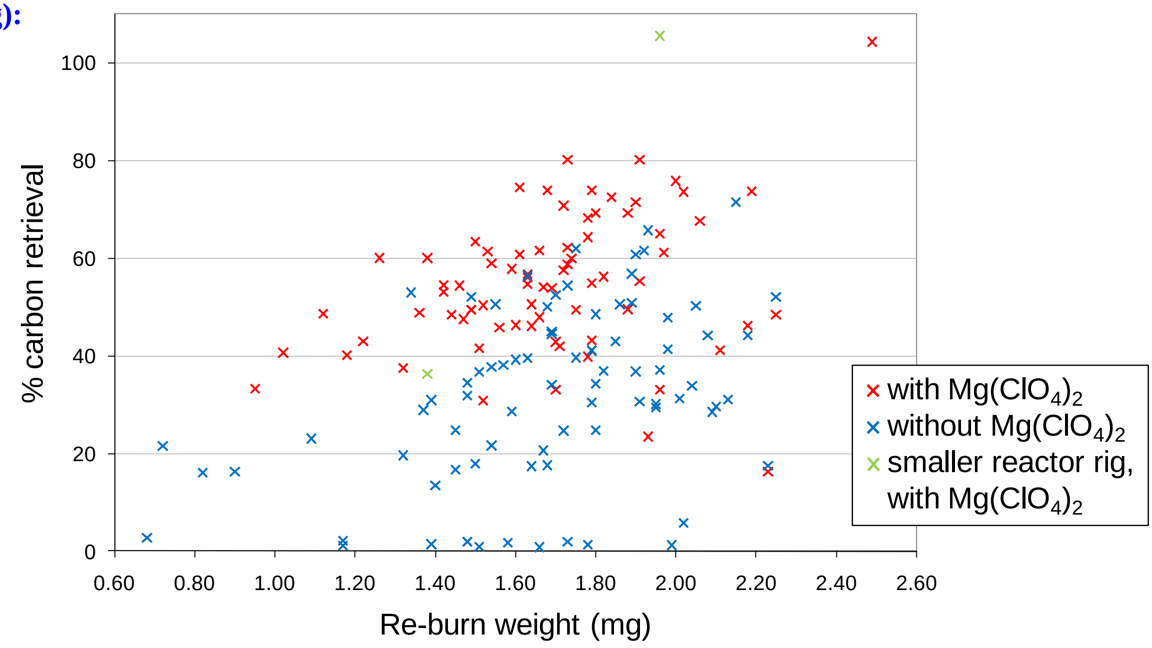


Figure A4.3 (continued):

(g):



Prior to graphitisation, hydrogen gas was added to each graphitisation rig such that the ratio of H_2:CO_2 was between 2.0 and 2.5 (as determined by Dee and Bronk Ramsey 2000). This value again demonstrates no relationship with percentage carbon retrieval (figure A4.3d). Such a finding would be expected for H_2:CO_2 values in this range as H_2 is always in excess for the graphitisation reaction to take place. Were the H_2:CO_2 ratio allowed to drop significantly below this 2.0 lower bound, then a decreasing carbon re-burn yield might start to become evident with progressively lower H_2 presence.

An overall trend is apparent in figure A4.3e of increasing carbon retrieval with decreased post-graphitisation 'log-off' pressure (the residual pressure measured in the reactor rigs following six hours of graphitisation, at which stage the reaction is supposed to have been completed). Such a relationship would be expected as the lower pressure demonstrates that the chemical reaction has progressed more completely. The strength of correlation ($R = -0.721$, $p < 0.0005$) shows that taking the log-off pressure (performed on every sample after graphitisation as standard ORAU laboratory practice, and itself in no way affecting the samples themselves) is a good predictor of how successful graphitisation has been. Also very clearly apparent from this plot is the difference between samples graphitised with- and without the presence of magnesium perchlorate.

There is a general trend of more negative $\delta^{13}C$ values with lower percentage carbon retrieval (figure A4.3f; $R = 0.487$; $p < 0.0005$). Theoretically, there should be no difference seen in $\delta^{13}C$ values of the same sample type, with the values of nylon, NOX and the tree ring samples used exhibiting known $\delta^{13}C$ values of -26.1‰, -17.0‰ and ≈ -25.0‰, respectively. At present, the trend identified here is put down to increasingly inaccurate mass spectrometer readings as the total mass of carbon present reduces; the mass spectrometer is envisaged as being less able to make sufficient counts of the heavier isotope (^{13}C) when there are lower total atoms present from which to make that count. However, a size-dependent isotopic fractionation of some kind is not discounted at this stage and will necessarily be investigated in future. Since any fractionation would be assumed to exhibit approximately double the effect in ^{14}C as ^{13}C, with respect to ^{12}C, such a fractionation should be easily corrected for, however, decreasing the absolute number of ^{14}C atoms yet further (in an already small sample size) might be expected to decrease the accuracy of counts of the radioisotope and therefore decrease the accuracy of any radiocarbon data thereby obtained.

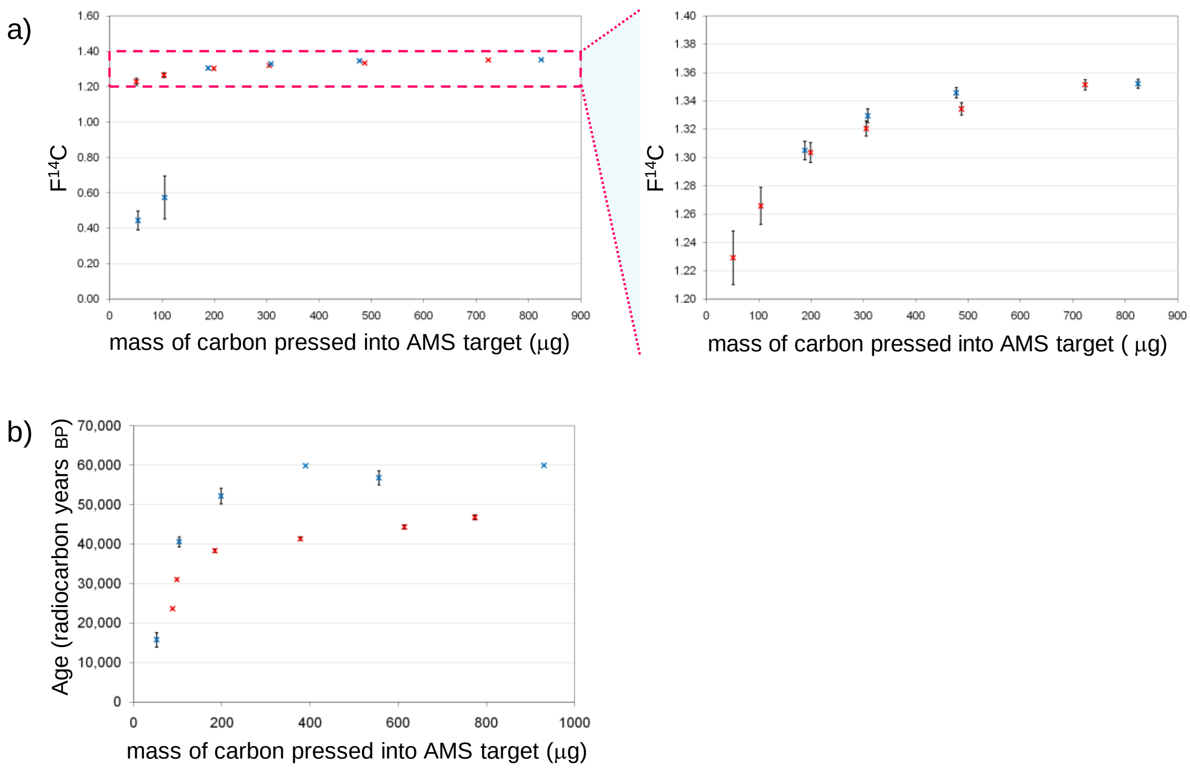
The re-burn weight is positively correlated with the mass of retrieved carbon (figure A4.3g). This is expected, since the re-burned weight is, apart from the mass of iron catalyst, which is fixed between 2.0 and 2.5 mg, entirely composed of graphitised carbon.

Use of a reduced volume reactor rig has, as yet, failed to improve graphitisation yields. Although the graphitisation reaction itself could well have been more successful than using the regular rig, the inability to completely physically remove the graphite-coated Fe pellet from the rig's smaller diameter graphite tube was responsible for this result. On-going work will aim to overcome this issue.

(f): AMS Results

Findings for the size-dependency of AMS radiocarbon determinations of smaller mass samples were obtained for both modern- (NBS Oxalic acid, NOX) and 'dead'- (nylon) radiocarbon standard materials (figure A4.4). Again, the use of the desiccant $Mg(ClO_4)_2$ in the graphitisation process was also tested. For both of these sample materials, the AMS targets were run in a wheel alongside normal small graphite (g) known-age standards (as was ORAU protocol for vsg samples previously).

Figure A4.4: AMS radiocarbon results demonstrating the mass-dependency of **(a)** modern- (NBS Oxalic acid); and **(b)** 'dead'- (nylon) standard material. Red crosses represent those samples graphitised with the presence of magnesium perchlorate $[Mg(ClO)_2]$ in the reactor rigs' water traps, whilst blue crosses represent those samples graphitised without the desiccant. Error bars represent 1σ dating uncertainties.



As has been noted elsewhere (e.g. Kirner *et al*., 1996), a clear mass dependency is found through dating of 'modern' samples, with an increasing radiocarbon age as sample size decreases. Samples graphitised with- and without the presence of $Mg(ClO_4)_2$ showed a similar trend, but with the relationship continuing to lower carbon masses for samples using the desiccant (probably due to the less efficient graphitisation of those samples lacking $Mg(ClO_4)_2$, described above).

Again, material of background radiocarbon age shows a clear mass-dependency, with smaller samples yielding increased radiocarbon backgrounds (see, *inter alia*, Santos *et al*.

2007). Those samples graphitised in the presence of $Mg(ClO_4)_2$ followed a similar trend, but with a higher overall background. Such findings suggest the incorporation of modern carbon contamination through the use of the $Mg(ClO_4)_2$ method.

(g): SG06 Samples

ORAU laboratory protocol (Brock *et al*. 2010) states that the starting weight of plant remains for radiocarbon pre-treatment is, ideally, between 20 and 100 mg, although for individual entities 10 to 20 mg, or less, is acceptable. The 'clean' initial status of the SG06 samples (after the physical removal of extraneous sedimentary material at the stage of sub-sampling form the core; section 4.2), and the relatively consistent (≈ 50 to 55%) proportion of carbon in the pre-treated sample material, allows for combustion weights of down to ≈ 1.2 mg to produce sufficient carbon (≥ 600 μg) for a 'normal' ('wholly reliable') g target, which, in turn, allowed for samples as small as ≤ 2 mg starting weight (prior to pre-treatment) to meet this criterion. As has been referred to previously, however, the non-regular distribution of such samples down the SG06 sediment profile necessitated the performing of the ('not as wholly reliable') vsg combustion protocols to add intermediary datapoints to the final SG06 radiocarbon calibration dataset (section 7.2.4).

Although some small samples were dated at NRCF-E early on in the progress of the 'Suigetsu Varves 2006' project, some 'more wayward' radiocarbon determinations produced from these samples (as compared to stratigraphically proximal larger samples dated at either ORAU or NRCF-E laboratories) led to the decision not to proceed to AMS with any further SG06 samples yielding < 500 μg C. This mass cut-off is in line with the 'routine' lab protocol applied at NRCF-E (Ertunç *et al*. 2005).

(h): Conclusions of ‘vsg’ method testing

Graphitisation of the smallest carbon samples is optimised through the presence of $Mg(ClO_4)_2$ in the water traps of the graphite rigs. Without $Mg(ClO_4)_2$ present, lowering graphitisation temperature yields more optimal results at ORAU for smaller samples.

A clear size-dependency is evident in AMS determinations based upon both modern- and old carbon sources. A conservative lower mass cut-off of ≈ 600 μg seems appropriate for yielding reliable radiocarbon data without the need for a specific AMS sample size dependent correction. Samples below this cut-off that were nevertheless selected for dating at ORAU were latterly (other than the initial, pilot results obtained from the project), dated on specificly designated vsg AMS wheels, with a mass-dependent correction applied. Through production of appropriately-sized standards, run alongside the vsg samples in the AMS wheel, it is believed that these very small mass samples produced reliable measurements to add to the corpus of SG06 plant macrofossil data. It should be noted, however, that the additional corrections required led to decreased precision in the final radiocarbon determination, therefore limiting the possibility of ‘plugging holes’ in the SG06 dataset with small samples from intervening core depths.

Appendix 5: Nakagawa *et al*. (2011): "SG06, a fully continuous and varved sediment core from Lake Suigetsu, Japan: stratigraphy and potential for improving the radiocarbon calibration model and understanding of Late Quaternary climate changes" (*Quaternary Science Reviews*, in press).

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 5 (continued):

[Figure removed for copyright reasons: original Nakagawa *et al*. (2011) paper available at:

http://dx.doi.org/10.1016/j.quascirev.2010.12.013]

Appendix 6: The 5% and 10% points of the χ^2 distribution. (Source: Attwood *et al*. 2000, p.166).

Degrees of freedom, ν	Values that a χ^2 distribution, with ν degrees of freedom, exceeds with 5% probability	Values that a χ^2 distribution, with ν degrees of freedom, exceeds with 10% probability
1	3.841	2.705
2	5.991	4.605
3	7.815	6.251
4	9.488	7.779
5	11.070	9.236
6	12.592	10.645
7	14.067	12.017
8	15.507	13.362
9	16.919	14.684
10	18.307	15.987

To assess whether it is appropriate to combine replicate radiocarbon measurements (as was described in section 5.1.2), the test statistic T is compared to the 5% points of the χ^2 distribution, above, where the degrees of freedom (ν) is equal to the number of contributing samples minus one. Where T exceeds χ^2_ν, the null hypothesis (H_0), that a group of samples is coeval, must be rejected. Therefore, one or more of the individual radiocarbon determinations should be excluded as being statistical outliers, since the measurement difference is too great to be attributed to chance alone.

For contingency tables (e.g. table 7.16), ν equals the number of rows (r) in the table minus one, multiplied by the number of columns (c) in the table minus one:

[A.6] $\nu = (r - 1) \times (c - 1)$.

Appendix 7: Staff *et al*. (2010): "A Re-analysis of the Lake Suigetsu Terrestrial Radiocarbon Calibration Dataset" (*Nuclear Instruments and Methods in Physics Research B* **268**, 960-965).

[Figure removed for copyright reasons: original Staff *et al*. (2010) paper available at:

http://dx.doi.org/doi:10.1016/j.nimb.2009.10.074]

Appendix 7 (continued):

[Figure removed for copyright reasons: original Staff *et al*. (2010) paper available at:

http://dx.doi.org/doi:10.1016/j.nimb.2009.10.074]

Appendix 7 (continued):

[Figure removed for copyright reasons: original Staff *et al*. (2010) paper available at:

http://dx.doi.org/doi:10.1016/j.nimb.2009.10.074]

Appendix 7 (continued):

[Figure removed for copyright reasons: original Staff *et al*. (2010) paper available at:

http://dx.doi.org/doi:10.1016/j.nimb.2009.10.074]

Appendix 7 (continued):

[Figure removed for copyright reasons: original Staff *et al*. (2010) paper available at:

http://dx.doi.org/doi:10.1016/j.nimb.2009.10.074]

Appendix 7 (continued):

[Figure removed for copyright reasons: original Staff *et al*. (2010) paper available at:

http://dx.doi.org/doi:10.1016/j.nimb.2009.10.074]

Appendix 8: OxCal Model Coding

OCM-6.1:

```
Options()
{
 BCAD=FALSE;
 Resolution=5;
 kIterations=300;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default", T(5), U(0,4), "r");
 Sequence("Boundaries")
 {
  Boundary("Bottom", calBP(43000));
  Date("SG34_Bottom");
  Interval("SG34_Duration", N(1527, 152.7))
  {
   color="Blue";
  };
  Date("SG34_Top");
  Interval("SG33_to_SG34", U(0,5000))
  {
   color="Gold";
  };
  Date("SG33_Bottom");
  Interval("SG33_Duration", N(1455, 145.5))
  {
   color="Blue";
  };
  Date("SG33_Top");
  Interval("SG32_to_SG33", U(0,5000))
  {
   color="Lime";
  };
  Date("SG32_Bottom");
  Interval("SG32_Duration", N(1475, 147.5))
  {
   color="Blue";
  };
  Date("SG32_Top");
  Interval("SG31_to_SG32", U(0,5000))
  {
   color="Red";
  };
  Date("SG31_Bottom");
  Interval("SG31_Duration", N(1429, 142.9))
  {
   color="Blue";
  };
  Date("SG31_Top");
  Interval("SG30_to_SG31", U(0,5000))
  {
   color="Red";
  };
  Date("SG30_Bottom");
  Interval("SG30_Duration", N(1518, 151.8))
  {
   color="Blue";
  };
  Date("SG30_Top");
  Interval("SG29_to_SG30", U(0,5000))
  {
   color="Gold";
  };
  Date("SG29_Bottom");
  Interval("SG29_Duration", N(1282, 128.2))
  {
   color="Blue";
  };
  Date("SG29_Top");
  Interval("SG28_to_SG29", U(0,5000))
  {
   color="Lime";
  };
  Date("SG28_Bottom");
  Interval("SG28_Duration", N(1336, 133.6))
  {
   color="Blue";
  };
Date("SG28_Top");
Interval("SG27_to_SG28", U(0,5000))
{
 color="Lime";
};
Date("SG27_Bottom");
Interval("SG27_Duration", N(1438, 143.8))
{
 color="Blue";
};
Date("SG27_Top");
Interval("SG26_to_SG27", U(0,5000))
{
 color="Red";
};
Date("SG26_Bottom");
Interval("SG26_Duration", N(1531, 153.1))
{
 color="Blue";
};
Date("SG26_Top");
Interval("SG25_to_SG26", U(0,5000))
{
 color="Gold";
};
Date("SG25_Bottom");
Interval("SG25_Duration", N(1541, 154.1))
{
 color="Blue";
};
Date("SG25_Top");
Interval("SG24_to_SG25", U(0,5000))
{
 color="Lime";
};
Date("SG24_Bottom");
Interval("SG24_Duration", N(1521, 152.1))
{
 color="Blue";
};
Date("SG24_Top");
Interval("SG23_to_SG24", U(0,5000))
{
 color="Gold";
};
Date("SG23_Bottom");
Interval("SG23_Duration", N(1573, 157.3))
{
 color="Red";
};
Date("SG23_Top");
Interval("SG22_to_SG23", U(0,5000))
{
 color="Lime";
};
Date("SG22_Bottom");
Interval("SG22_Duration", N(1419, 141.9))
{
 color="Red";
};
Date("SG22_Top");
Interval("SG21_to_SG22", U(0,5000))
{
 color="Lime";
};
Date("SG21_Bottom");
Interval("SG21_Duration", N(1405, 140.5))
{
 color="Red";
};
Date("SG21_Top");
Interval("SG20_to_SG21", U(0,5000))
{
 color="Gold";
};
Date("SG20_Bottom");
```

OCM-6.1 (continued):

```
 Interval("SG20_Duration", N(1452, 145.2))
 {
  color="Blue";
 };
 Date("SG20_Top");
 Interval("SG19_to_SG20", U(0,5000))
 {
  color="Red";
 };
 Date("SG19_Bottom");
 Interval("SG19_Duration", N(1445, 144.5))
 {
  color="Red";
 };
 Date("SG19_Top");
 Interval("SG18_to_SG19", U(0,5000))
 {
  color="Lime";
 };
 Date("SG18_Bottom");
 Interval("SG18_Duration", N(1402, 140.2))
 {
  color="Blue";
 };
 Date("SG18_Top");
 Interval("SG17_to_SG18", U(0,5000))
 {
  color="Lime";
 };
 Date("SG17_Bottom");
 Interval("SG17_Duration", N(1074, 107.4))
 {
  color="Red";
 };
 Date("SG17_Top");
 Interval("SG16_to_SG17", U(0,5000))
 {
  color="Lime";
 };
 Date("SG16_Bottom");
 Interval("SG16_Duration", N(908, 90.8))
 {
  color="Red";
 };
 Date("SG16_Top");
 Interval("SG15_to_SG16", U(0,5000))
 {
  color="Gold";
 };
 Date("SG15_Bottom");
 Interval("SG15_Duration", N(666, 66.6))
 {
  color="Blue";
 };
 Date("SG15_Top");
 Interval("SG14_to_SG15", U(0,5000))
 {
  color="Lime";
 };
 Date("SG14_Bottom");
 Interval("SG14_Duration", N(692, 69.2))
 {
  color="Blue";
 };
 Date("SG14_Top");
 Interval("SG13_to_SG14", U(0,5000))
 {
  color="Gold";
 };
 Date("SG13_Bottom");
 Interval("SG13_Duration", N(691, 69.1))
 {
  color="Blue";
 };
 Date("SG13_Top");
 Boundary("Top", calBP(7000));
};
```

```
P_Sequence("Kitagawa and van der Plicht
2000", 0.4)
{
 Boundary("=SG34_Bottom")
 {
  color="Gray";
  z=37929.0;
 };
 R_Date("GrA-5633", 35070, 460)
 {
  color="Magenta";
  Outlier(0.05);
  z=37404.5;
 };
 R_Date("GrA-10434", 35322, 249)
 {
  color="Magenta";
  Outlier(0.05);
  z=37125.5;
 };
 R_Date("GrA-5632", 35140, 415)
 {
  color="Magenta";
  Outlier(0.05);
  z=37097.5;
 };
 R_Date("GrA-5631", 34950, 415)
 {
  color="Magenta";
  Outlier(0.05);
  z=36805.5;
 };
 Boundary("=SG34_Top")
 {
  color="Gray";
  z=36402.0;
 };
 Interval("=SG33_to_SG34");
 Boundary("=SG33_Bottom")
 {
  color="Gray";
  z=36401.0;
 };
 R_Date("GrA-5627", 32640, 330)
 {
  color="Purple";
  Outlier(0.05);
  z=35856.5;
 };
 R_Date("GrA-5626", 33270, 680)
 {
  color="Purple";
  Outlier(0.05);
  z=35741.0;
 };
 Boundary("=SG33_Top")
 {
  color="Gray";
  z=34946.0;
 };
 Interval("=SG32_to_SG33");
 Boundary("=SG32_Bottom")
 {
  color="Gray";
  z=34945.0;
 };
 R_Date("GrA-5619", 33070, 730)
 {
  color="Magenta";
  Outlier(0.05);
  z=34849.5;
 };
 R_Date("GrA-5620", 33475, 345)
 {
  color="Magenta";
  Outlier(0.05);
  z=34185.5;
 };
```

OCM-6.1 (continued):

```
R_Date("GrA-10430", 34497, 472)
{
 color="Magenta";
 Outlier(0.05);
 z=34122.0;
};
R_Date("GrA-5622", 32825, 380)
{
 color="Magenta";
 Outlier(0.05);
 z=34093.5;
};
R_Date("GrA-10429", 34936, 180)
{
 color="Magenta";
 Outlier(0.05);
 z=34076.3;
};
R_Date("GrA-5623", 32875, 370)
{
 color="Magenta";
 Outlier(0.05);
 z=33989.0;
};
R_Date("GrA-10426", 33975, 743)
{
 color="Magenta";
 Outlier(0.05);
 z=33969.5;
};
R_Date("GrA-5624", 32140, 260)
{
 color="Magenta";
 Outlier(0.05);
 z=33862.0;
};
R_Date("GrA-10422", 31375, 763)
{
 color="Magenta";
 Outlier(0.05);
 z=33615.7;
};
Boundary("=SG32_Top")
{
 color="Gray";
 z=33470.0;
};
Interval("=SG31_to_SG32");
Boundary("=SG31_Bottom")
{
 color="Gray";
 z=33469.0;
};
R_Date("GrA-5625", 31190, 360)
{
 color="Purple";
 Outlier(0.05);
 z=33379.5;
};
R_Date("GrA-5614", 31547, 330)
{
 color="Purple";
 Outlier(0.05);
 z=33326.5;
};
R_Date("GrA-5613", 31345, 355)
{
 color="Purple";
 Outlier(0.05);
 z=33169.0;
};
R_Date("GrA-10419", 31751, 813)
{
 color="Purple";
 Outlier(0.05);
 z=33021.1;
};
R_Date("GrA-5615", 31545, 335)
{
 color="Purple";
 Outlier(0.05);
 z=32979.0;
};
R_Date("GrA-5616", 31545, 340)
{
 color="Purple";
 Outlier(0.05);
 z=32842.0;
};
R_Date("GrA-10417", 30356, 698)
{
 color="Purple";
 Outlier(0.05);
 z=32627.7;
};
R_Date("GrA-5617", 30010, 310)
{
 color="Purple";
 Outlier(0.05);
 z=32613.0;
};
R_Date("GrA-10416", 31307, 772)
{
 color="Purple";
 Outlier(0.05);
 z=32532.0;
};
R_Date("GrA-10415", 30471, 62)
{
 color="Purple";
 Outlier(0.05);
 z=32362.7;
};
R_Date("GrA-5618", 30080, 200)
{
 color="Purple";
 Outlier(0.05);
 z=32328.5;
};
Boundary("=SG31_Top")
{
 color="Gray";
 z=32040.0;
};
Interval("=SG30_to_SG31");
Boundary("=SG30_Bottom")
{
 color="Gray";
 z=32039.0;
};
R_Date("GrA-6167", 28495, 255)
{
 color="Magenta";
 Outlier(0.05);
 z=31947.0;
};
R_Date("GrA-6170", 28220, 245)
{
 color="Magenta";
 Outlier(0.05);
 z=31837.0;
};
R_Date("GrA-6174", 28495, 250)
{
 color="Magenta";
 Outlier(0.05);
 z=31808.5;
};
R_Date("GrA-10390", 30265, 331)
{
 color="Magenta";
 Outlier(0.05);
 z=31784.1;
};
R_Date("GrA-10391", 29449, 186)
{
 color="Magenta";
 Outlier(0.05);
 z=31597.6;
};
R_Date("GrA-6169", 27880, 235)
{
 color="Magenta";
 Outlier(0.05);
 z=31429.5;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-10389", 28959, 229)
{
 color="Magenta";
 Outlier(0.05);
 z=31427.6;
};
R_Date("GrA-10388", 27524, 719)
{
 color="Magenta";
 Outlier(0.05);
 z=31383.0;
};
R_Date("GrA-10395", 27424, 667)
{
 color="Magenta";
 Outlier(0.05);
 z=31221.6;
};
R_Date("GrA-6168", 26460, 215)
{
 color="Magenta";
 Outlier(0.05);
 z=31200.5;
};
R_Date("GrA-10376", 28769, 233)
{
 color="Magenta";
 Outlier(0.05);
 z=31048.7;
};
R_Date("GrA-10380", 28857, 290)
{
 color="Magenta";
 Outlier(0.05);
 z=30989.9;
};
R_Date("GrA-10378", 28136, 287)
{
 color="Magenta";
 Outlier(0.05);
 z=30878.8;
};
R_Date("GrA-10381", 28528, 146)
{
 color="Magenta";
 Outlier(0.05);
 z=30816.3;
};
Boundary("=SG30_Top")
{
 color="Gray";
 z=30521.0;
};
Interval("=SG29_to_SG30");
Boundary("=SG29_Bottom")
{
 color="Gray";
 z=30520.0;
};
R_Date("GrA-6171", 25445, 190)
{
 color="Purple";
 Outlier(0.05);
 z=30171.5;
};
R_Date("GrA-6172", 25840, 670)
{
 color="Purple";
 Outlier(0.05);
 z=29868.0;
};
R_Date("GrA-6173", 25980, 670)
{
 color="Purple";
 Outlier(0.05);
 z=29363.5;
};
Boundary("=SG29_Top")
{
 color="Gray";
 z=29238.0;
};
Interval("=SG28_to_SG29");
Boundary("=SG28_Bottom")
{
 color="Gray";
 z=28937.0;
};
R_Date("GrA-6176", 24545, 270)
{
 color="Magenta";
 Outlier(0.05);
 z=28282.5;
};
R_Date("GrA-6177", 25130, 185)
{
 color="Magenta";
 Outlier(0.05);
 z=27854.5;
};
R_Date("GrA-6178", 24700, 270)
{
 color="Magenta";
 Outlier(0.05);
 z=27812.0;
};
Boundary("=SG28_Top")
{
 color="Gray";
 z=27601.0;
};
Interval("=SG27_to_SG28");
Boundary("=SG27_Bottom")
{
 color="Gray";
 z=27600.0;
};
R_Date("GrA-6179", 24595, 265)
{
 color="Purple";
 Outlier(0.05);
 z=27054.0;
};
R_Date("GrA-6180", 23970, 170)
{
 color="Purple";
 Outlier(0.05);
 z=26804.5;
};
R_Date("GrA-6181", 23890, 210)
{
 color="Purple";
 Outlier(0.05);
 z=26749.5;
};
R_Date("GrA-6182", 24495, 270)
{
 color="Purple";
 Outlier(0.05);
 z=26705.0;
};
R_Date("GrA-6183", 23400, 500)
{
 color="Purple";
 Outlier(0.05);
 z=26343.5;
};
Boundary("=SG27_Top")
{
 color="Gray";
 z=26162.0;
};
Interval("=SG26_to_SG27");
Boundary("=SG26_Bottom")
{
 color="Gray";
 z=26161.0;
};
R_Date("GrA-10375", 22298, 264)
{
 color="Magenta";
 Outlier(0.05);
 z=26130.8;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-10373", 22233, 386)
{
 color="Magenta";
 Outlier(0.05);
 z=25930.2;
};
R_Date("GrA-6184", 23170, 150)
{
 color="Magenta";
 Outlier(0.05);
 z=25923.5;
};
R_Date("GrA-10372", 22280, 171)
{
 color="Magenta";
 Outlier(0.05);
 z=25882.8;
};
R_Date("GrA-10371", 22281, 159)
{
 color="Magenta";
 Outlier(0.05);
 z=25839.1;
};
R_Date("GrA-6185", 22630, 220)
{
 color="Magenta";
 Outlier(0.05);
 z=25810.5;
};
R_Date("GrA-10370", 22078, 157)
{
 color="Magenta";
 Outlier(0.05);
 z=25705.8;
};
R_Date("GrA-6186", 22600, 440)
{
 color="Magenta";
 Outlier(0.05);
 z=25614.5;
};
R_Date("GrA-10369", 22055, 264)
{
 color="Magenta";
 Outlier(0.05);
 z=25604.2;
};
R_Date("GrA-10404", 21274, 201)
{
 color="Magenta";
 Outlier(0.05);
 z=25127.3;
};
R_Date("GrA-10368", 21059, 151)
{
 color="Magenta";
 Outlier(0.05);
 z=24781.6;
};
R_Date("GrA-10360", 20826, 151)
{
 color="Magenta";
 Outlier(0.05);
 z=24660.8;
};
Boundary("=SG26_Top")
{
 color="Gray";
 z=24630.0;
};
Interval("=SG25_to_SG26");
Boundary("=SG25_Bottom")
{
 color="Gray";
 z=24629.0;
};
R_Date("GrA-10367", 20537, 562)
{
 color="Purple";
 Outlier(0.05);
 z=24323.7;
};
R_Date("GrA-10362", 20503, 446)
{
 color="Purple";
 Outlier(0.05);
 z=24163.4;
};
R_Date("GrA-10361", 20428, 147)
{
 color="Purple";
 Outlier(0.05);
 z=24063.0;
};
R_Date("GrA-6187", 20630, 130)
{
 color="Purple";
 Outlier(0.05);
 z=24038.0;
};
R_Date("GrA-19401", 20115, 201)
{
 color="Purple";
 Outlier(0.05);
 z=23859.4;
};
R_Date("GrA-6188", 19830, 365)
{
 color="Purple";
 Outlier(0.05);
 z=23609.0;
};
R_Date("GrA-10266", 20041, 207)
{
 color="Purple";
 Outlier(0.05);
 z=23467.5;
};
R_Date("GrA-10265", 19457, 201)
{
 color="Purple";
 Outlier(0.05);
 z=23358.5;
};
R_Date("GrA-10264", 19810, 203)
{
 color="Purple";
 Outlier(0.05);
 z=23305.7;
};
Boundary("=SG25_Top")
{
 color="Gray";
 z=23088.0;
};
Interval("=SG24_to_SG25");
Boundary("=SG24_Bottom")
{
 color="Gray";
 z=23087.0;
};
R_Date("GrA-10261", 19755, 139)
{
 color="Magenta";
 Outlier(0.05);
 z=22900.5;
};
R_Date("GrA-6189", 19425, 305)
{
 color="Magenta";
 Outlier(0.05);
 z=22892.5;
};
R_Date("GrA-10263", 19191, 131)
{
 color="Magenta";
 Outlier(0.05);
 z=22858.3;
};
R_Date("GrA-10262", 19027, 388)
{
 color="Magenta";
 Outlier(0.05);
 z=22719.0;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-10258", 18931, 453)
{
 color="Magenta";
 Outlier(0.05);
 z=22298.9;
};
R_Date("GrA-6190", 19370, 135)
{
 color="Magenta";
 Outlier(0.05);
 z=22217.5;
};
R_Date("GrA-10256", 18831, 146)
{
 color="Magenta";
 Outlier(0.05);
 z=22107.9;
};
R_Date("GrA-10383", 18781, 201)
{
 color="Magenta";
 Outlier(0.05);
 z=22053.4;
};
R_Date("GrA-6191", 18975, 290)
{
 color="Magenta";
 Outlier(0.05);
 z=22029.0;
};
R_Date("GrA-10255", 18769, 132)
{
 color="Magenta";
 Outlier(0.05);
 z=21999.1;
};
R_Date("GrA-6192", 18810, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=21970.0;
};
R_Date("GrA-10254", 18088, 226)
{
 color="Magenta";
 Outlier(0.05);
 z=21648.6;
};
R_Date("GrA-10253", 17973, 126)
{
 color="Magenta";
 Outlier(0.05);
 z=21593.9;
};
Boundary("=SG24_Top")
{
 color="Gray";
 z=21566.0;
};
Interval("=SG23_to_SG24");
Boundary("=SG23_Bottom")
{
 color="Gray";
 z=21565.0;
};
R_Date("GrA-10252", 17962, 127)
{
 color="Purple";
 Outlier(0.05);
 z=21542.0;
};
R_Date("GrA-10250", 18240, 228)
{
 color="Purple";
 Outlier(0.05);
 z=21355.3;
};
R_Date("GrA-10270", 17957, 201)
{
 color="Purple";
 Outlier(0.05);
 z=21246.5;
};
R_Date("GrA-10248", 17433, 201)
{
 color="Purple";
 Outlier(0.05);
 z=21148.0;
};
R_Date("GrA-10249", 17747, 162)
{
 color="Purple";
 Outlier(0.05);
 z=21042.9;
};
R_Date("GrA-10269", 17451, 208)
{
 color="Purple";
 Outlier(0.05);
 z=20821.9;
};
R_Date("GrA-10247", 17469, 128)
{
 color="Purple";
 Outlier(0.05);
 z=20713.9;
};
R_Date("GrA-10246", 17203, 177)
{
 color="Purple";
 Outlier(0.05);
 z=20660.0;
};
R_Date("GrA-6193", 17745, 140)
{
 color="Purple";
 Outlier(0.05);
 z=20597.0;
};
R_Date("GrA-10245", 17221, 117)
{
 color="Purple";
 Outlier(0.05);
 z=20112.8;
};
Boundary("=SG23_Top")
{
 color="Gray";
 z=19992.0;
};
Interval("=SG22_to_SG23");
Boundary("=SG22_Bottom")
{
 color="Gray";
 z=19991.0;
};
R_Date("GrA-5660", 17380, 240)
{
 color="Magenta";
 Outlier(0.05);
 z=19911.0;
};
R_Date("GrA-4570/GrA-8187", 17145, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=19853.9;
};
R_Date("GrA-4569", 16950, 185)
{
 color="Magenta";
 Outlier(0.05);
 z=19795.6;
};
R_Date("GrA-8155", 16952, 79)
{
 color="Magenta";
 Outlier(0.05);
 z=19745.8;
};
R_Date("GrA-4586", 17135, 170)
{
 color="Magenta";
 Outlier(0.05);
 z=19617.4;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-8127", 17106, 167)
{
 color="Magenta";
 Outlier(0.05);
 z=19526.0;
};
R_Date("GrA-4567", 17065, 240)
{
 color="Magenta";
 Outlier(0.05);
 z=19459.9;
};
R_Date("GrA-5668b", 16700, 178)
{
 color="Magenta";
 Outlier(0.05);
 z=19398.1;
};
R_Date("GrA-8115", 16640, 263)
{
 color="Magenta";
 Outlier(0.05);
 z=19347.2;
};
R_Date("GrA-5669", 16750, 220)
{
 color="Magenta";
 Outlier(0.05);
 z=19293.1;
};
R_Date("GrA-8122", 16678, 206)
{
 color="Magenta";
 Outlier(0.05);
 z=19195.8;
};
R_Date("GrA-4566", 16280, 195)
{
 color="Magenta";
 Outlier(0.05);
 z=19131.3;
};
R_Date("GrA-8123", 16698, 127)
{
 color="Magenta";
 Outlier(0.05);
 z=19007.3;
};
R_Date("GrA-8118", 16570, 125)
{
 color="Magenta";
 Outlier(0.05);
 z=18954.0;
};
R_Date("GrA-8124", 16346, 94)
{
 color="Magenta";
 Outlier(0.05);
 z=18904.3;
};
R_Date("GrA-4565", 15990, 180)
{
 color="Magenta";
 Outlier(0.05);
 z=18837.3;
};
R_Date("GrA-4564", 15915, 230)
{
 color="Magenta";
 Outlier(0.05);
 z=18708.7;
};
Boundary("=SG22_Top")
{
 color="Gray";
 z=18572.0;
};
Interval("=SG21_to_SG22");
Boundary("=SG21_Bottom")
{
 color="Gray";
 z=18571.0;
};
R_Date("GrA-4562", 15695, 180)
{
 color="Purple";
 Outlier(0.05);
 z=18452.2;
};
R_Date("GrA-8192", 16044, 77)
{
 color="Purple";
 Outlier(0.05);
 z=18339.2;
};
R_Date("GrA-8186", 15991, 82)
{
 color="Purple";
 Outlier(0.05);
 z=18288.0;
};
R_Date("GrA-8114", 15857, 81)
{
 color="Purple";
 Outlier(0.05);
 z=18134.1;
};
R_Date("GrA-5668a", 15730, 145)
{
 color="Purple";
 Outlier(0.05);
 z=18083.8;
};
R_Date("GrA-5658", 15480, 140)
{
 color="Purple";
 Outlier(0.05);
 z=18032.3;
};
R_Date("GrA-4561", 15755, 270)
{
 color="Purple";
 Outlier(0.05);
 z=17980.8;
};
R_Date("GrA-8112", 15540, 209)
{
 color="Purple";
 Outlier(0.05);
 z=17933.1;
};
R_Date("GrA-8119", 15385, 119)
{
 color="Purple";
 Outlier(0.05);
 z=17886.8;
};
R_Date("GrA-4556b", 15125, 185)
{
 color="Purple";
 Outlier(0.05);
 z=17841.2;
};
R_Date("GrA-8120", 15202, 90)
{
 color="Purple";
 Outlier(0.05);
 z=17796.5;
};
R_Date("GrA-8111", 15277, 80)
{
 color="Purple";
 Outlier(0.05);
 z=17750.2;
};
R_Date("GrA-8116", 15245, 149)
{
 color="Purple";
 Outlier(0.05);
 z=17705.3;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-4559", 14860, 195)
{
 color="Purple";
 Outlier(0.05);
 z=17657.2;
};
R_Date("GrA-4558", 14630, 60)
{
 color="Purple";
 Outlier(0.05);
 z=17606.3;
};
R_Date("GrA-8113", 14631, 113)
{
 color="Purple";
 Outlier(0.05);
 z=17519.4;
};
R_Date("GrA-4557", 14595, 90)
{
 color="Purple";
 Outlier(0.05);
 z=17482.6;
};
R_Date("GrA-8193", 14736, 80)
{
 color="Purple";
 Outlier(0.05);
 z=17439.9;
};
R_Date("GrA-4556a", 14695, 60)
{
 color="Purple";
 Outlier(0.05);
 z=17342.0;
};
Boundary("=SG21_Top")
{
 color="Gray";
 z=17166.0;
};
Interval("=SG20_to_SG21");
Boundary("=SG20_Bottom")
{
 color="Gray";
 z=17165.0;
};
R_Date("GrA-8132", 14582, 93)
{
 color="Magenta";
 Outlier(0.05);
 z=17050.3;
};
R_Date("GrA-4555", 14440, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=16954.7;
};
R_Date("GrA-5652", 14295, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=16660.1;
};
R_Date("GrA-8133", 14159, 116)
{
 color="Magenta";
 Outlier(0.05);
 z=16605.0;
};
R_Date("GrA-4554", 13815, 70)
{
 color="Magenta";
 Outlier(0.05);
 z=16552.6;
};
R_Date("GrA-6203/GrA-8142", 14217, 76)
{
 color="Magenta";
 Outlier(0.05);
 z=16500.8;
};
R_Date("GrA-4553", 13855, 125)
{
 color="Magenta";
 Outlier(0.05);
 z=16379.7;
};
R_Date("GrA-5651", 13885, 80)
{
 color="Magenta";
 Outlier(0.05);
 z=16324.8;
};
R_Date("GrA-4552/GrA-8128", 13627, 46)
{
 color="Magenta";
 Outlier(0.05);
 z=16212.9;
};
R_Date("GrA-8134", 13612, 70)
{
 color="Magenta";
 Outlier(0.05);
 z=16160.1;
};
R_Date("GrA-5636", 13105, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=16116.8;
};
R_Date("GrA-5650/GrA-8130", 13482, 57)
{
 color="Magenta";
 Outlier(0.05);
 z=15953.7;
};
R_Date("GrA-4551", 13015, 80)
{
 color="Magenta";
 Outlier(0.05);
 z=15896.3;
};
R_Date("GrA-5649", 13385, 165)
{
 color="Magenta";
 Outlier(0.05);
 z=15841.0;
};
R_Date("GrA-4550", 13665, 215)
{
 color="Magenta";
 Outlier(0.05);
 z=15738.6;
};
Boundary("=SG20_Top")
{
 color="Gray";
 z=15713.0;
};
Interval("=SG19_to_SG20");
Boundary("=SG19_Bottom")
{
 color="Gray";
 z=15712.0;
};
R_Date("GrA-5648", 13440, 300)
{
 color="Purple";
 Outlier(0.05);
 z=15527.8;
};
R_Date("GrA-8136", 12929, 92)
{
 color="Purple";
 Outlier(0.05);
 z=15398.9;
};
R_Date("GrA-8140", 12750, 78)
{
 color="Purple";
 Outlier(0.05);
 z=15338.4;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-6205", 12705, 105)
{
 color="Purple";
 Outlier(0.05);
 z=15278.5;
};
R_Date("GrA-4543", 12745, 75)
{
 color="Purple";
 Outlier(0.05);
 z=15226.2;
};
R_Date("GrA-10237", 12771, 91)
{
 color="Purple";
 Outlier(0.05);
 z=15178.0;
};
R_Date("GrA-5646", 12625, 370)
{
 color="Purple";
 Outlier(0.05);
 z=15174.7;
};
R_Date("GrA-10242", 12801, 154)
{
 color="Purple";
 Outlier(0.05);
 z=15160.0;
};
R_Date("GrA-8135", 12742, 98)
{
 color="Purple";
 Outlier(0.05);
 z=15068.6;
};
R_Date("GrA-4542", 12490, 55)
{
 color="Purple";
 Outlier(0.05);
 z=15018.1;
};
R_Date("GrA-8173", 12548, 57)
{
 color="Purple";
 Outlier(0.05);
 z=14976.5;
};
R_Date("GrA-4541", 12345, 55)
{
 color="Purple";
 Outlier(0.05);
 z=14858.5;
};
R_Date("GrA-5645", 12520, 70)
{
 color="Purple";
 Outlier(0.05);
 z=14812.4;
};
R_Date("GrA-8159", 12483, 87)
{
 color="Purple";
 Outlier(0.05);
 z=14725.1;
};
R_Date("GrA-10235", 12943, 163)
{
 color="Purple";
 Outlier(0.05);
 z=14704.0;
};
R_Date("GrA-8156", 12656, 112)
{
 color="Purple";
 Outlier(0.05);
 z=14676.5;
};
R_Date("GrA-10239", 12631, 86)
{
 color="Purple";
 Outlier(0.05);
 z=14640.5;
};
R_Date("GrA-4540", 12502, 70)
{
 color="Purple";
 Outlier(0.05);
 z=14629.1;
};
R_Date("GrA-5644/GrA-8160", 12320, 55)
{
 color="Purple";
 Outlier(0.05);
 z=14582.7;
};
R_Date("GrA-5643/GrA-8188", 12345, 49)
{
 color="Purple";
 Outlier(0.05);
 z=14490.6;
};
R_Date("GrA-10231", 12456, 90)
{
 color="Purple";
 Outlier(0.05);
 z=14488.5;
};
R_Date("GrA-6204", 12410, 100)
{
 color="Purple";
 Outlier(0.05);
 z=14444.3;
};
R_Date("GrA-4539/GrA-8185", 12322, 48)
{
 color="Purple";
 Outlier(0.05);
 z=14393.6;
};
R_Date("GrA-8143", 12521, 84)
{
 color="Purple";
 Outlier(0.05);
 z=14341.0;
};
R_Date("GrA-8150", 12683, 116)
{
 color="Purple";
 Outlier(0.05);
 z=14291.5;
};
Boundary("=SG19_Top")
{
 color="Gray";
 z=14267.0;
};
Interval("=SG18_to_SG19");
Boundary("=SG18_Bottom")
{
 color="Gray";
 z=14266.0;
};
R_Date("GrA-5654", 12610, 295)
{
 color="Magenta";
 Outlier(0.05);
 z=14252.4;
};
R_Date("GrA-8148", 12495, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=14217.8;
};
R_Date("GrA-6202", 12270, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=14178.2;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-8191", 12363, 185)
{
 color="Magenta";
 Outlier(0.05);
 z=14137.4;
};
R_Date("GrA-8189", 12381, 97)
{
 color="Magenta";
 Outlier(0.05);
 z=14091.7;
};
R_Date("GrA-5642", 12250, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=14045.0;
};
R_Date("GrA-4537", 12050, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=13995.0;
};
R_Date("GrA-6206", 12245, 125)
{
 color="Magenta";
 Outlier(0.05);
 z=13940.6;
};
R_Date("GrA-8147", 12333, 74)
{
 color="Magenta";
 Outlier(0.05);
 z=13889.7;
};
R_Date("GrA-4536", 12040, 55)
{
 color="Magenta";
 Outlier(0.05);
 z=13839.7;
};
R_Date("GrA-8175", 11958, 78)
{
 color="Magenta";
 Outlier(0.05);
 z=13790.7;
};
R_Date("GrA-5653", 11980, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=13742.2;
};
R_Date("GrA-8194", 12101, 126)
{
 color="Magenta";
 Outlier(0.05);
 z=13694.5;
};
R_Date("GrA-4535", 12028, 63)
{
 color="Magenta";
 Outlier(0.05);
 z=13646.2;
};
R_Date("GrA-8151", 12015, 96)
{
 color="Magenta";
 Outlier(0.05);
 z=13596.8;
};
R_Date("GrA-8176", 11858, 108)
{
 color="Magenta";
 Outlier(0.05);
 z=13555.1;
};
R_Date("GrA-5641", 11830, 65)
{
 color="Magenta";
 Outlier(0.05);
 z=13514.7;
};
R_Date("GrA-1719", 12004, 78)
{
 color="Magenta";
 Outlier(0.05);
 z=13466.5;
};
R_Date("GrA-10238", 11808, 84)
{
 color="Magenta";
 Outlier(0.05);
 z=13444.5;
};
R_Date("GrA-8139", 11716, 106)
{
 color="Magenta";
 Outlier(0.05);
 z=13365.7;
};
R_Date("GrA-8190", 11698, 116)
{
 color="Magenta";
 Outlier(0.05);
 z=13310.9;
};
R_Date("GrA-10232", 11755, 83)
{
 color="Magenta";
 Outlier(0.05);
 z=13265.5;
};
R_Date("GrA-5640", 11690, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=13259.9;
};
R_Date("GrA-4534", 11460, 55)
{
 color="Magenta";
 Outlier(0.05);
 z=13212.2;
};
R_Date("GrA-5639", 11480, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=13131.5;
};
R_Date("GrA-5638", 11440, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=13089.3;
};
R_Date("GrA-4533", 10975, 55)
{
 color="Magenta";
 Outlier(0.05);
 z=13047.6;
};
R_Date("GrA-5637", 11335, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=13007.9;
};
R_Date("GrA-5635", 11210, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=12967.2;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-5634", 11415, 145)
{
 color="Magenta";
 Outlier(0.05);
 z=12928.3;
};
R_Date("GrA-10268", 11179, 128)
{
 color="Magenta";
 Outlier(0.05);
 z=12896.0;
};
R_Date("GrA-4532/GrA-8177", 10995, 39)
{
 color="Magenta";
 Outlier(0.05);
 z=12886.9;
};
Boundary("=SG18_Top")
{
 color="Gray";
 z=12864.0;
};
Interval("=SG17_to_SG18");
Boundary("=SG17_Bottom")
{
 color="Gray";
 z=12863.0;
};
R_Date("GrA-3077", 11000, 125)
{
 color="Purple";
 Outlier(0.05);
 z=12857.6;
};
R_Date("GrA-2920", 10915, 125)
{
 color="Purple";
 Outlier(0.05);
 z=12793.2;
};
R_Date("GrA-2908", 10700, 100)
{
 color="Purple";
 Outlier(0.05);
 z=12735.8;
};
R_Date("GrA-8178", 10662, 69)
{
 color="Purple";
 Outlier(0.05);
 z=12518.7;
};
R_Date("GrA-2848", 10670, 100)
{
 color="Purple";
 Outlier(0.05);
 z=12480.7;
};
R_Date("GrA-8179", 10671, 84)
{
 color="Purple";
 Outlier(0.05);
 z=12441.0;
};
R_Date("GrA-2906", 10380, 90)
{
 color="Purple";
 Outlier(0.05);
 z=12367.7;
};
R_Date("GrA-2913b", 10590, 95)
{
 color="Purple";
 Outlier(0.05);
 z=12302.1;
};
R_Date("GrA-2837", 10710, 110)
{
 color="Purple";
 Outlier(0.05);
 z=12260.9;
};
R_Date("GrA-2981b", 10370, 125)
{
 color="Purple";
 Outlier(0.05);
 z=12142.9;
};
R_Date("GrA-2970", 10395, 105)
{
 color="Purple";
 Outlier(0.05);
 z=12004.5;
};
R_Date("GrA-1736", 10246, 80)
{
 color="Purple";
 Outlier(0.05);
 z=11887.3;
};
R_Date("GrA-2836", 10455, 100)
{
 color="Purple";
 Outlier(0.05);
 z=11848.3;
};
R_Date("GrA-2969", 10100, 105)
{
 color="Purple";
 Outlier(0.05);
 z=11807.9;
};
Boundary("=SG17_Top")
{
 color="Gray";
 z=11789.0;
};
Interval("=SG16_to_SG17");
Boundary("=SG16_Bottom")
{
 color="Gray";
 z=11788.0;
};
R_Date("GrA-2909/GrA-8181", 10211, 57)
{
 color="Magenta";
 Outlier(0.05);
 z=11716.0;
};
R_Date("GrA-2902", 10165, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=11681.2;
};
R_Date("GrA-3078", 10285, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=11578.9;
};
R_Date("GrA-10234", 10411, 121)
{
 color="Magenta";
 Outlier(0.05);
 z=11542.0;
};
R_Date("GrA-2916", 10095, 100)
{
 color="Magenta";
 Outlier(0.05);
 z=11490.2;
};
R_Date("GrA-2917", 10145, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=11460.5;
};
R_Date("GrA-2838", 10055, 100)
{
 color="Magenta";
 Outlier(0.05);
 z=11398.9;
};
```

OCM-6.1 (continued):

```
R_Date("GrA-2961", 10095, 125)
{
 color="Magenta";
 Outlier(0.05);
 z=11371.0;
};
R_Date("GrA-2911", 10125, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=11319.3;
};
R_Date("GrA-10233", 10280, 87)
{
 color="Magenta";
 Outlier(0.05);
 z=11297.0;
};
R_Date("GrA-2905", 9860, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=11290.3;
};
R_Date("GrA-8182", 9963, 77)
{
 color="Magenta";
 Outlier(0.05);
 z=11261.6;
};
R_Date("GrA-10240", 10153, 76)
{
 color="Magenta";
 Outlier(0.05);
 z=11248.0;
};
R_Date("GrA-2904", 10005, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=11197.5;
};
R_Date("GrA-3086", 10075, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=11123.1;
};
R_Date("GrA-10260", 10027, 84)
{
 color="Magenta";
 Outlier(0.05);
 z=11002.0;
};
Boundary("=SG16_Top")
{
 color="Gray";
 z=10880.0;
};
Interval("=SG15_to_SG16");
Boundary("=SG15_Bottom")
{
 color="Gray";
 z=10879.0;
};
R_Date("GrA-2907", 9495, 90)
{
 color="Purple";
 Outlier(0.05);
 z=10868.7;
};
R_Date("GrA-3083", 9555, 105)
{
 color="Purple";
 Outlier(0.05);
 z=10796.8;
};
R_Date("GrA-2912", 9625, 100)
{
 color="Purple";
 Outlier(0.05);
 z=10744.7;
};
R_Date("GrA-2913a", 9405, 80)
{
 color="Purple";
 Outlier(0.05);
 z=10718.6;
};
R_Date("GrA-8183", 9356, 59)
{
 color="Purple";
 Outlier(0.05);
 z=10692.9;
};
R_Date("GrA-2944", 9320, 90)
{
 color="Purple";
 Outlier(0.05);
 z=10640.7;
};
R_Date("GrA-2847", 9525, 90)
{
 color="Purple";
 Outlier(0.05);
 z=10614.6;
};
R_Date("GrA-3081", 9535, 80)
{
 color="Purple";
 Outlier(0.05);
 z=10568.0;
};
R_Date("GrA-2915", 9635, 100)
{
 color="Purple";
 Outlier(0.05);
 z=10520.6;
};
R_Date("GrA-4585", 9260, 180)
{
 color="Purple";
 Outlier(0.05);
 z=10460.2;
};
R_Date("GrA-2921", 9270, 115)
{
 color="Purple";
 Outlier(0.05);
 z=10413.9;
};
R_Date("GrA-2845", 9150, 115)
{
 color="Purple";
 Outlier(0.05);
 z=10389.9;
};
R_Date("GrA-2971", 9280, 115)
{
 color="Purple";
 Outlier(0.05);
 z=10333.3;
};
R_Date("GrA-10243", 9404, 74)
{
 color="Purple";
 Outlier(0.05);
 z=10311.5;
};
R_Date("GrA-8184", 9071, 72)
{
 color="Purple";
 Outlier(0.05);
 z=10250.4;
};
R_Date("GrA-3079", 8970, 120)
{
 color="Purple";
 Outlier(0.05);
 z=10226.2;
};
Boundary("=SG15_Top")
{
 color="Gray";
 z=10213.0;
};
```

OCM-6.1 (continued):

```
Interval("=SG14_to_SG15");
Boundary("=SG14_Bottom")
{
 color="Gray";
 z=10212.0;
};
R_Date("GrA-2890", 8665, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=10136.5;
};
R_Date("GrA-3082", 8830, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=10042.9;
};
R_Date("GrA-2844", 8845, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=9905.4;
};
R_Date("GrA-3080", 9055, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=9836.3;
};
R_Date("GrA-3085", 8900, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=9784.5;
};
R_Date("GrA-2835", 8775, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=9715.8;
};
R_Date("GrA-3087", 8765, 80)
{
 color="Magenta";
 Outlier(0.05);
 z=9658.3;
};
R_Date("GrA-2843", 8635, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=9587.3;
};
Boundary("=SG14_Top")
{
 color="Gray";
 z=9520.0;
};
Interval("=SG13_to_SG14");
Boundary("=SG13_Bottom")
{
 color="Gray";
 z=9519.0;
};
R_Date("GrA-2842", 8635, 110)
{
 color="Purple";
 Outlier(0.05);
 z=9491.0;
};
R_Date("GrA-2901", 8200, 105)
{
 color="Purple";
 Outlier(0.05);
 z=9387.6;
};
R_Date("GrA-2947/GrA-2948", 8050, 70)
{
 color="Purple";
 Outlier(0.05);
 z=9253.2;
 };
 R_Date("GrA-2840", 8085, 90)
 {
  color="Purple";
  Outlier(0.05);
  z=9215.7;
 };
 R_Date("GrA-6236", 8035, 100)
 {
  color="Purple";
  Outlier(0.05);
  z=9195.2;
 };
 R_Date("GrA-6235", 8050, 80)
 {
  color="Purple";
  Outlier(0.05);
  z=9170.6;
 };
 R_Date("GrA-2914", 8020, 100)
 {
  color="Purple";
  Outlier(0.05);
  z=9128.2;
 };
 R_Date("GrA-2839", 8150, 110)
 {
  color="Purple";
  Outlier(0.05);
  z=9064.0;
 };
 R_Date("GrA-6232", 8035, 90)
 {
  color="Purple";
  Outlier(0.05);
  z=9031.8;
 };
 R_Date("GrA-6233", 8020, 90)
 {
  color="Purple";
  Outlier(0.05);
  z=8998.5;
 };
 R_Date("GrA-2849", 7805, 100)
 {
  color="Purple";
  Outlier(0.05);
  z=8919.0;
 };
 R_Date("GrA-6234", 7610, 70)
 {
  color="Purple";
  Outlier(0.05);
  z=8845.1;
 };
 Boundary("=SG13_Top")
 {
  color="Gray";
  z=8828.0;
 };
};
Curve("IntCal09")
{
 color="Lime";
};
Curve("IntCal04")
{
 color="ForestGreen";
};
Curve("Fairbanks0805")
{
 color="Gold";
};
Curve("Hughen2006")
{
 color="SkyBlue";
};
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-6.2:

```
Options()
{
 BCAD=FALSE;
 Resolution=5;
 kIterations=100;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default", T(5), U(0,4), "r");
 Sequence("Boundaries")
 {
  Boundary("Bottom", calBP(43000));
  Date("SG34_Bottom");
  Date("SG34_Top");
  Date("SG33_Bottom");
  Date("SG33_Top");
  Date("SG32_Bottom");
  Date("SG32_Top");
  Date("SG31_Bottom");
  Date("SG31_Top");
  Date("SG30_Bottom");
  Date("SG30_Top");
  Date("SG29_Bottom");
  Date("SG29_Top");
  Date("SG28_Bottom");
  Date("SG28_Top");
  Date("SG27_Bottom");
  Date("SG27_Top");
  Date("SG26_Bottom");
  Date("SG26_Top");
  Date("SG25_Bottom");
  Date("SG24_Bottom");
  Date("SG25_Top");
  Date("SG24_Top");
  Date("SG23_Bottom");
  Date("SG22_Bottom");
  Date("SG23_Top");
  Date("SG22_Top");
  Date("SG21_Bottom");
  Date("SG21_Top");
  Date("SG20_Bottom");
  Date("SG20_Top");
  Date("SG19_Bottom");
  Date("Suspected_Earthquake_Layer",
  U(calBP(16000),calBP(14000)));
  Date("SG19_Top");
  Date("SG18_Bottom");
  Date("SG18_Top");
  Date("SG17_Bottom");
  Date("SG17_Top");
  Date("SG16_Bottom");
  Date("SG16_Top");
  Date("SG15_Bottom");
  Date("SG15_Top");
  Date("SG14_Bottom");
  Date("SG14_Top");
  Date("SG13_Bottom");
  Date("SG13_Top");
  Boundary("Top", calBP(7000));
 };
 P_Sequence("Kitagawa and van der Plicht 2000
 vs SG06 EFD", 1.5)
 {
  Boundary("=SG34_Bottom")
  {
   color="Gray";
   z=3071.3;
  };
  R_Date("GrA-5633", 35070, 460)
  {
   color="Magenta";
   Outlier(0.05);
   z=3048.1;
  };
  R_Date("GrA-10434", 35322, 249)
  {
   color="Magenta";
   Outlier(0.05);
   z=3036.3;
  };
R_Date("GrA-5632", 35140, 415)
{
 color="Magenta";
 Outlier(0.05);
 z=3035.0;
};
R_Date("GrA-5631", 34950, 415)
{
 color="Magenta";
 Outlier(0.05);
 z=3022.1;
};
Date("=SG34_Top")
{
 color="Gray";
 z=3002.7;
};
Date("=SG33_Bottom")
{
 color="Gray";
 z=2992.2;
};
R_Date("GrA-5627", 32640, 330)
{
 color="Purple";
 Outlier(0.05);
 z=2962.2;
};
R_Date("GrA-5626", 33270, 680)
{
 color="Purple";
 Outlier(0.05);
 z=2955.7;
};
Date("=SG33_Top")
{
 color="Gray";
 z=2907.8;
};
Date("=SG32_Bottom")
{
 color="Gray";
 z=2896.1;
};
R_Date("GrA-5619", 33070, 730)
{
 color="Magenta";
 Outlier(0.05);
 z=2890.2;
};
R_Date("GrA-5620", 33475, 345)
{
 color="Magenta";
 Outlier(0.05);
 z=2851.7;
};
R_Date("GrA-10430", 34497, 472)
{
 color="Magenta";
 Outlier(0.05);
 z=2847.7;
};
R_Date("GrA-5622", 32825, 380)
{
 color="Magenta";
 Outlier(0.05);
 z=2845.8;
};
R_Date("GrA-10429", 34936, 180)
{
 color="Magenta";
 Outlier(0.05);
 z=2844.8;
};
R_Date("GrA-5623", 32875, 370)
{
 color="Magenta";
 Outlier(0.05);
 z=2840.2;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-10426", 33975, 743)
{
 color="Magenta";
 Outlier(0.05);
 z=2839.1;
};
R_Date("GrA-5624", 32140, 260)
{
 color="Magenta";
 Outlier(0.05);
 z=2832.0;
};
R_Date("GrA-10422", 31375, 763)
{
 color="Magenta";
 Outlier(0.05);
 z=2818.4;
};
Date("=SG32_Top")
{
 color="Gray";
 z=2810.9;
};
Date("=SG31_Bottom")
{
 color="Gray";
 z=2798.9;
};
R_Date("GrA-5625", 31190, 360)
{
 color="Purple";
 Outlier(0.05);
 z=2794.0;
};
R_Date("GrA-5614", 31547, 330)
{
 color="Purple";
 Outlier(0.05);
 z=2791.1;
};
R_Date("GrA-5613", 31345, 355)
{
 color="Purple";
 Outlier(0.05);
 z=2782.3;
};
R_Date("GrA-10419", 31751, 813)
{
 color="Purple";
 Outlier(0.05);
 z=2773.7;
};
R_Date("GrA-5615", 31545, 335)
{
 color="Purple";
 Outlier(0.05);
 z=2771.3;
};
R_Date("GrA-5616", 31545, 340)
{
 color="Purple";
 Outlier(0.05);
 z=2764.3;
};
R_Date("GrA-10417", 30356, 698)
{
 color="Purple";
 Outlier(0.05);
 z=2750.0;
};
R_Date("GrA-5617", 30010, 310)
{
 color="Purple";
 Outlier(0.05);
 z=2749.2;
};
R_Date("GrA-10416", 31307, 772)
{
 color="Purple";
 Outlier(0.05);
 z=2743.6;
};
R_Date("GrA-10415", 30471, 62)
{
 color="Purple";
 Outlier(0.05);
 z=2734.4;
};
R_Date("GrA-5618", 30080, 200)
{
 color="Purple";
 Outlier(0.05);
 z=2732.5;
};
Date("=SG31_Top")
{
 color="Gray";
 z=2714.9;
};
Date("=SG30_Bottom")
{
 color="Gray";
 z=2712.5;
};
R_Date("GrA-6167", 28495, 255)
{
 color="Magenta";
 Outlier(0.05);
 z=2706.4;
};
R_Date("GrA-6170", 28220, 245)
{
 color="Magenta";
 Outlier(0.05);
 z=2698.3;
};
R_Date("GrA-6174", 28495, 250)
{
 color="Magenta";
 Outlier(0.05);
 z=2696.5;
};
R_Date("GrA-10390", 30265, 331)
{
 color="Magenta";
 Outlier(0.05);
 z=2695.0;
};
R_Date("GrA-10391", 29449, 186)
{
 color="Magenta";
 Outlier(0.05);
 z=2683.6;
};
R_Date("GrA-6169", 27880, 235)
{
 color="Magenta";
 Outlier(0.05);
 z=2671.9;
};
R_Date("GrA-10389", 28959, 229)
{
 color="Magenta";
 Outlier(0.05);
 z=2671.9;
};
R_Date("GrA-10388", 27524, 719)
{
 color="Magenta";
 Outlier(0.05);
 z=2669.2;
};
R_Date("GrA-10395", 27424, 667)
{
 color="Magenta";
 Outlier(0.05);
 z=2660.1;
};
R_Date("GrA-6168", 26460, 215)
{
 color="Magenta";
 Outlier(0.05);
 z=2659.0;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-10376", 28769, 233)
{
color="Magenta";
 Outlier(0.05);
 z=2651.4;
};
R_Date("GrA-10380", 28857, 290)
{
 color="Magenta";
 Outlier(0.05);
 z=2648.7;
};
R_Date("GrA-10378", 28136, 287)
{
 color="Magenta";
 Outlier(0.05);
 z=2643.2;
};
R_Date("GrA-10381", 28528, 146)
{
 color="Magenta";
 Outlier(0.05);
 z=2640.2;
};
Date("=SG30_Top")
{
 color="Gray";
 z=2624.6;
};
Date("=SG29_Bottom")
{
 color="Gray";
 z=2614.3;
};
R_Date("GrA-6171", 25445, 190)
{
 color="Purple";
 Outlier(0.05);
 z=2589.8;
};
R_Date("GrA-6172", 25840, 670)
{
 color="Purple";
 Outlier(0.05);
 z=2566.9;
};
R_Date("GrA-6173", 25980, 670)
{
 color="Purple";
 Outlier(0.05);
 z=2541.0;
};
Date("=SG29_Top")
{
 color="Gray";
 z=2535.3;
};
Date("=SG28_Bottom")
{
 color="Gray";
 z=2527.9;
};
R_Date("GrA-6176", 24545, 270)
{
 color="Magenta";
 Outlier(0.05);
 z=2495.2;
};
R_Date("GrA-6177", 25130, 185)
{
 color="Magenta";
 Outlier(0.05);
 z=2473.1;
};
R_Date("GrA-6178", 24700, 270)
{
 color="Magenta";
 Outlier(0.05);
 z=2470.5;
};
Date("=SG28_Top")
{
 color="Gray";
 z=2457.1;
};
Date("=SG27_Bottom")
{
 color="Gray";
 z=2453.4;
};
R_Date("GrA-6179", 24595, 265)
{
 color="Purple";
 Outlier(0.05);
 z=2418.6;
};
R_Date("GrA-6180", 23970, 170)
{
 color="Purple";
 Outlier(0.05);
 z=2402.1;
};
R_Date("GrA-6181", 23890, 210)
{
 color="Purple";
 Outlier(0.05);
 z=2398.7;
};
R_Date("GrA-6182", 24495, 270)
{
 color="Purple";
 Outlier(0.05);
 z=2396.3;
};
R_Date("GrA-6183", 23400, 500)
{
 color="Purple";
 Outlier(0.05);
 z=2368.6;
};
Date("=SG27_Top")
{
 color="Gray";
 z=2358.1;
};
Date("=SG26_Bottom")
{
 color="Gray";
 z=2355.8;
};
R_Date("GrA-10375", 22298, 264)
{
 color="Magenta";
 Outlier(0.05);
 z=2353.9;
};
R_Date("GrA-10373", 22233, 386)
{
 color="Magenta";
 Outlier(0.05);
 z=2341.3;
};
R_Date("GrA-6184", 23170, 150)
{
 color="Magenta";
 Outlier(0.05);
 z=2340.9;
};
R_Date("GrA-10372", 22280, 171)
{
 color="Magenta";
 Outlier(0.05);
 z=2338.0;
};
R_Date("GrA-10371", 22281, 159)
{
 color="Magenta";
 Outlier(0.05);
 z=2334.7;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-6185", 22630, 220)
{
 color="Magenta";
 Outlier(0.05);
 z=2332.5;
};
R_Date("GrA-10370", 22078, 157)
{
 color="Magenta";
 Outlier(0.05);
 z=2324.8;
};
R_Date("GrA-6186", 22600, 440)
{
 color="Magenta";
 Outlier(0.05);
 z=2318.6;
};
R_Date("GrA-10369", 22055, 264)
{
 color="Magenta";
 Outlier(0.05);
 z=2317.9;
};
R_Date("GrA-10404", 21274, 201)
{
 color="Magenta";
 Outlier(0.05);
 z=2285.0;
};
R_Date("GrA-10368", 21059, 151)
{
 color="Magenta";
 Outlier(0.05);
 z=2266.3;
};
R_Date("GrA-10360", 20826, 151)
{
 color="Magenta";
 Outlier(0.05);
 z=2260.4;
};
Date("=SG26_Top")
{
 color="Gray";
 z=2258.9;
};
Date("=SG25_Bottom")
{
 color="Gray";
 z=2247.6;
};
R_Date("GrA-10367", 20537, 562)
{
 color="Purple";
 Outlier(0.05);
 z=2229.5;
};
R_Date("GrA-10362", 20503, 446)
{
 color="Purple";
 Outlier(0.05);
 z=2220.9;
};
R_Date("GrA-10361", 20428, 147)
{
 color="Purple";
 Outlier(0.05);
 z=2215.4;
};
R_Date("GrA-6187", 20630, 130)
{
 color="Purple";
 Outlier(0.05);
 z=2214.0;
};
R_Date("GrA-19401", 20115, 201)
{
 color="Purple";
 Outlier(0.05);
 z=2202.7;
};
R_Date("GrA-6188", 19830, 365)
{
 color="Purple";
 Outlier(0.05);
 z=2188.2;
};
R_Date("GrA-10266", 20041, 207)
{
 color="Purple";
 Outlier(0.05);
 z=2179.6;
};
R_Date("GrA-10265", 19457, 201)
{
 color="Purple";
 Outlier(0.05);
 z=2177.1;
};
R_Date("GrA-10264", 19810, 203)
{
 color="Purple";
 Outlier(0.05);
 z=2174.5;
};
Date("=SG24_Bottom")
{
 color="Gray";
 z=2161.4;
};
Date("=SG25_Top")
{
 color="Gray";
 z=2160.2;
};
R_Date("GrA-10261", 19755, 139)
{
 color="Magenta";
 Outlier(0.05);
 z=2149.8;
};
R_Date("GrA-6189", 19425, 305)
{
 color="Magenta";
 Outlier(0.05);
 z=2149.3;
};
R_Date("GrA-10263", 19191, 131)
{
 color="Magenta";
 Outlier(0.05);
 z=2147.3;
};
R_Date("GrA-10262", 19027, 388)
{
 color="Magenta";
 Outlier(0.05);
 z=2138.9;
};
R_Date("GrA-10258", 18931, 453)
{
 color="Magenta";
 Outlier(0.05);
 z=2113.6;
};
R_Date("GrA-6190", 19370, 135)
{
 color="Magenta";
 Outlier(0.05);
 z=2109.0;
};
R_Date("GrA-10256", 18831, 146)
{
 color="Magenta";
 Outlier(0.05);
 z=2102.5;
};
R_Date("GrA-10383", 18781, 201)
{
 color="Magenta";
 Outlier(0.05);
 z=2099.3;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-6191", 18975, 290)
{
 color="Magenta";
 Outlier(0.05);
 z=2097.7;
};
R_Date("GrA-10255", 18769, 132)
{
 color="Magenta";
 Outlier(0.05);
 z=2095.7;
};
R_Date("GrA-6192", 18810, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=2093.7;
};
R_Date("GrA-10254", 18088, 226)
{
 color="Magenta";
 Outlier(0.05);
 z=2071.7;
};
R_Date("GrA-10253", 17973, 126)
{
 color="Magenta";
 Outlier(0.05);
 z=2068.7;
};
Date("=SG24_Top")
{
 color="Gray";
 z=2067.2;
};
Date("=SG23_Bottom")
{
 color="Gray";
 z=2064.2;
};
R_Date("GrA-10252", 17962, 127)
{
 color="Purple";
 Outlier(0.05);
 z=2062.7;
};
R_Date("GrA-10250", 18240, 228)
{
 color="Purple";
 Outlier(0.05);
 z=2050.3;
};
R_Date("GrA-10270", 17957, 201)
{
 color="Purple";
 Outlier(0.05);
 z=2043.8;
};
R_Date("GrA-10248", 17433, 201)
{
 color="Purple";
 Outlier(0.05);
 z=2037.4;
};
R_Date("GrA-10249", 17747, 162)
{
 color="Purple";
 Outlier(0.05);
 z=2030.9;
};
R_Date("GrA-10269", 17451, 208)
{
 color="Purple";
 Outlier(0.05);
 z=2019.0;
};
R_Date("GrA-10247", 17469, 128)
{
 color="Purple";
 Outlier(0.05);
 z=2013.4;
};
R_Date("GrA-10246", 17203, 177)
{
 color="Purple";
 Outlier(0.05);
 z=2012.2;
};
R_Date("GrA-6193", 17745, 140)
{
 color="Purple";
 Outlier(0.05);
 z=2011.0;
};
R_Date("GrA-10245", 17221, 117)
{
 color="Purple";
 Outlier(0.05);
 z=1988.1;
};
Date("=SG22_Bottom")
{
 color="Gray";
 z=1985.1;
};
Date("=SG23_Top")
{
 color="Gray";
 z=1983.5;
};
R_Date("GrA-5660", 17380, 240)
{
 color="Magenta";
 Outlier(0.05);
 z=1980.6;
};
R_Date("GrA-4570/GrA-8187", 17145, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=1977.6;
};
R_Date("GrA-4569", 16950, 185)
{
 color="Magenta";
 Outlier(0.05);
 z=1974.6;
};
R_Date("GrA-8155", 16952, 79)
{
 color="Magenta";
 Outlier(0.05);
 z=1972.0;
};
R_Date("GrA-4586", 17135, 170)
{
 color="Magenta";
 Outlier(0.05);
 z=1965.0;
};
R_Date("GrA-8127", 17106, 167)
{
 color="Magenta";
 Outlier(0.05);
 z=1959.5;
};
R_Date("GrA-4567", 17065, 240)
{
 color="Magenta";
 Outlier(0.05);
 z=1956.9;
};
R_Date("GrA-5668b", 16700, 178)
{
 color="Magenta";
 Outlier(0.05);
 z=1954.4;
};
R_Date("GrA-8115", 16640, 263)
{
 color="Magenta";
 Outlier(0.05);
 z=1951.4;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-5669", 16750, 220)
{
 color="Magenta";
 Outlier(0.05);
 z=1948.4;
};
R_Date("GrA-8122", 16678, 206)
{
 color="Magenta";
 Outlier(0.05);
 z=1942.9;
};
R_Date("GrA-4566", 16280, 195)
{
 color="Magenta";
 Outlier(0.05);
 z=1939.4;
};
R_Date("GrA-8123", 16698, 127)
{
 color="Magenta";
 Outlier(0.05);
 z=1932.3;
};
R_Date("GrA-8118", 16570, 125)
{
 color="Magenta";
 Outlier(0.05);
 z=1929.0;
};
R_Date("GrA-8124", 16346, 94)
{
 color="Magenta";
 Outlier(0.05);
 z=1925.4;
};
R_Date("GrA-4565", 15990, 180)
{
 color="Magenta";
 Outlier(0.05);
 z=1920.7;
};
R_Date("GrA-4564", 15915, 230)
{
 color="Magenta";
 Outlier(0.05);
 z=1911.4;
};
Date("=SG22_Top")
{
 color="Gray";
 z=1902.2;
};
Date("=SG21_Bottom")
{
 color="Gray";
 z=1898.7;
};
R_Date("GrA-4562", 15695, 180)
{
 color="Purple";
 Outlier(0.05);
 z=1896.3;
};
R_Date("GrA-8192", 16044, 77)
{
 color="Purple";
 Outlier(0.05);
 z=1891.0;
};
R_Date("GrA-8186", 15991, 82)
{
 color="Purple";
 Outlier(0.05);
 z=1888.3;
};
R_Date("GrA-8114", 15857, 81)
{
 color="Purple";
 Outlier(0.05);
 z=1879.1;
};
R_Date("GrA-5668a", 15730, 145)
{
 color="Purple";
 Outlier(0.05);
 z=1875.9;
};
R_Date("GrA-5658", 15480, 140)
{
 color="Purple";
 Outlier(0.05);
 z=1872.9;
};
R_Date("GrA-4561", 15755, 270)
{
 color="Purple";
 Outlier(0.05);
 z=1869.9;
};
R_Date("GrA-8112", 15540, 209)
{
 color="Purple";
 Outlier(0.05);
 z=1867.0;
};
R_Date("GrA-8119", 15385, 119)
{
 color="Purple";
 Outlier(0.05);
 z=1864.0;
};
R_Date("GrA-4556b", 15125, 185)
{
 color="Purple";
 Outlier(0.05);
 z=1861.0;
};
R_Date("GrA-8120", 15202, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1858.0;
};
R_Date("GrA-8111", 15277, 80)
{
 color="Purple";
 Outlier(0.05);
 z=1855.0;
};
R_Date("GrA-8116", 15245, 149)
{
 color="Purple";
 Outlier(0.05);
 z=1851.9;
};
R_Date("GrA-4559", 14860, 195)
{
 color="Purple";
 Outlier(0.05);
 z=1848.7;
};
R_Date("GrA-4558", 14630, 60)
{
 color="Purple";
 Outlier(0.05);
 z=1845.5;
};
R_Date("GrA-8113", 14631, 113)
{
 color="Purple";
 Outlier(0.05);
 z=1839.7;
};
R_Date("GrA-4557", 14595, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1837.0;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-8193", 14736, 80)
{
 color="Purple";
 Outlier(0.05);
 z=1833.7;
};
R_Date("GrA-4556a", 14695, 60)
{
 color="Purple";
 Outlier(0.05);
 z=1826.9;
};
Date("=SG21_Top")
{
 color="Gray";
 z=1815.6;
};
Date("=SG20_Bottom")
{
 color="Gray";
 z=1810.9;
};
R_Date("GrA-8132", 14582, 93)
{
 color="Magenta";
 Outlier(0.05);
 z=1805.7;
};
R_Date("GrA-4555", 14440, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1800.6;
};
R_Date("GrA-5652", 14295, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=1783.6;
};
R_Date("GrA-8133", 14159, 116)
{
 color="Magenta";
 Outlier(0.05);
 z=1780.4;
};
R_Date("GrA-4554", 13815, 70)
{
 color="Magenta";
 Outlier(0.05);
 z=1777.2;
};
R_Date("GrA-6203/GrA-8142", 14217, 76)
{
 color="Magenta";
 Outlier(0.05);
 z=1774.0;
};
R_Date("GrA-4553", 13855, 125)
{
 color="Magenta";
 Outlier(0.05);
 z=1767.0;
};
R_Date("GrA-5651", 13885, 80)
{
 color="Magenta";
 Outlier(0.05);
 z=1763.8;
};
R_Date("GrA-4552/GrA-8128", 13627, 46)
{
 color="Magenta";
 Outlier(0.05);
 z=1757.3;
};
R_Date("GrA-8134", 13612, 70)
{
 color="Magenta";
 Outlier(0.05);
 z=1754.1;
};
R_Date("GrA-5636", 13105, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=1750.9;
};
R_Date("GrA-5650/GrA-8130", 13482, 57)
{
 color="Magenta";
 Outlier(0.05);
 z=1741.2;
};
R_Date("GrA-4551", 13015, 80)
{
 color="Magenta";
 Outlier(0.05);
 z=1738.0;
};
R_Date("GrA-5649", 13385, 165)
{
 color="Magenta";
 Outlier(0.05);
 z=1734.9;
};
R_Date("GrA-4550", 13665, 215)
{
 color="Magenta";
 Outlier(0.05);
 z=1728.9;
};
Date("=SG20_Top")
{
 color="Gray";
 z=1727.4;
};
Date("=SG19_Bottom")
{
 color="Gray";
 z=1723.5;
};
R_Date("GrA-5648", 13440, 300)
{
 color="Purple";
 Outlier(0.05);
 z=1713.6;
};
R_Date("GrA-8136", 12929, 92)
{
 color="Purple";
 Outlier(0.05);
 z=1707.0;
};
R_Date("GrA-8140", 12750, 78)
{
 color="Purple";
 Outlier(0.05);
 z=1704.2;
};
R_Date("GrA-6205", 12705, 105)
{
 color="Purple";
 Outlier(0.05);
 z=1701.4;
};
R_Date("GrA-4543", 12745, 75)
{
 color="Purple";
 Outlier(0.05);
 z=1698.5;
};
R_Date("GrA-10237", 12771, 91)
{
 color="Purple";
 Outlier(0.05);
 z=1695.9;
};
R_Date("GrA-5646", 12625, 370)
{
 color="Purple";
 Outlier(0.05);
 z=1695.7;
};
```

OCM-6.2 (continued):

```
Boundary("=Suspected Earthquake Layer")
{
 color="Gray";
 z=1695.0;
};
R_Date("GrA-10242", 12801, 154)
{
 color="Purple";
 Outlier(0.05);
 z=1694.9;
};
R_Date("GrA-8135", 12742, 98)
{
 color="Purple";
 Outlier(0.05);
 z=1690.1;
};
R_Date("GrA-4542", 12490, 55)
{
 color="Purple";
 Outlier(0.05);
 z=1687.3;
};
R_Date("GrA-8173", 12548, 57)
{
 color="Purple";
 Outlier(0.05);
 z=1684.9;
};
R_Date("GrA-4541", 12345, 55)
{
 color="Purple";
 Outlier(0.05);
 z=1677.7;
};
R_Date("GrA-5645", 12520, 70)
{
 color="Purple";
 Outlier(0.05);
 z=1674.7;
};
R_Date("GrA-8159", 12483, 87)
{
 color="Purple";
 Outlier(0.05);
 z=1668.6;
};
R_Date("GrA-10235", 12943, 163)
{
 color="Purple";
 Outlier(0.05);
 z=1667.1;
};
R_Date("GrA-8156", 12656, 112)
{
 color="Purple";
 Outlier(0.05);
 z=1665.5;
};
R_Date("GrA-10239", 12631, 86)
{
 color="Purple";
 Outlier(0.05);
 z=1663.1;
};
R_Date("GrA-4540", 12502, 70)
{
 color="Purple";
 Outlier(0.05);
 z=1662.4;
};
R_Date("GrA-5644/GrA-8160", 12320, 55)
{
 color="Purple";
 Outlier(0.05);
 z=1659.3;
};
R_Date("GrA-5643/GrA-8188", 12345, 49)
{
 color="Purple";
 Outlier(0.05);
 z=1653.3;
};
R_Date("GrA-10231", 12456, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1653.1;
};
R_Date("GrA-6204", 12410, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1650.4;
};
R_Date("GrA-4539/GrA-8185", 12322, 48)
{
 color="Purple";
 Outlier(0.05);
 z=1647.6;
};
R_Date("GrA-8143", 12521, 84)
{
 color="Purple";
 Outlier(0.05);
 z=1644.8;
};
R_Date("GrA-8150", 12683, 116)
{
 color="Purple";
 Outlier(0.05);
 z=1641.9;
};
Date("=SG19_Top")
{
 color="Gray";
 z=1640.5;
};
Date("=SG18_Bottom")
{
 color="Gray";
 z=1631.8;
};
R_Date("GrA-5654", 12610, 295)
{
 color="Magenta";
 Outlier(0.05);
 z=1630.8;
};
R_Date("GrA-8148", 12495, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1628.3;
};
R_Date("GrA-6202", 12270, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1625.3;
};
R_Date("GrA-8191", 12363, 185)
{
 color="Magenta";
 Outlier(0.05);
 z=1622.3;
};
R_Date("GrA-8189", 12381, 97)
{
 color="Magenta";
 Outlier(0.05);
 z=1619.4;
};
R_Date("GrA-5642", 12250, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1616.6;
};
R_Date("GrA-4537", 12050, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=1613.9;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-6206", 12245, 125)
{
 color="Magenta";
 Outlier(0.05);
 z=1611.0;
};
R_Date("GrA-8147", 12333, 74)
{
 color="Magenta";
 Outlier(0.05);
 z=1608.2;
};
R_Date("GrA-4536", 12040, 55)
{
 color="Magenta";
 Outlier(0.05);
 z=1605.3;
};
R_Date("GrA-8175", 11958, 78)
{
 color="Magenta";
 Outlier(0.05);
 z=1602.3;
};
R_Date("GrA-5653", 11980, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=1598.7;
};
R_Date("GrA-8194", 12101, 126)
{
 color="Magenta";
 Outlier(0.05);
 z=1594.7;
};
R_Date("GrA-4535", 12028, 63)
{
 color="Magenta";
 Outlier(0.05);
 z=1592.4;
};
R_Date("GrA-8151", 12015, 96)
{
 color="Magenta";
 Outlier(0.05);
 z=1591.5;
};
R_Date("GrA-8176", 11858, 108)
{
 color="Magenta";
 Outlier(0.05);
 z=1590.0;
};
R_Date("GrA-5641", 11830, 65)
{
 color="Magenta";
 Outlier(0.05);
 z=1587.6;
};
R_Date("GrA-1719", 12004, 78)
{
 color="Magenta";
 Outlier(0.05);
 z=1584.9;
};
R_Date("GrA-10238", 11808, 84)
{
 color="Magenta";
 Outlier(0.05);
 z=1583.8;
};
R_Date("GrA-8139", 11716, 106)
{
 color="Magenta";
 Outlier(0.05);
 z=1579.5;
};
R_Date("GrA-8190", 11698, 116)
{
 color="Magenta";
 Outlier(0.05);
 z=1576.7;
};
R_Date("GrA-10232", 11755, 83)
{
 color="Magenta";
 Outlier(0.05);
 z=1574.3;
};
R_Date("GrA-5640", 11690, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=1573.9;
};
R_Date("GrA-4534", 11460, 55)
{
 color="Magenta";
 Outlier(0.05);
 z=1571.0;
};
R_Date("GrA-5639", 11480, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=1565.9;
};
R_Date("GrA-5638", 11440, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=1562.9;
};
R_Date("GrA-4533", 10975, 55)
{
 color="Magenta";
 Outlier(0.05);
 z=1559.8;
};
R_Date("GrA-5637", 11335, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=1556.7;
};
R_Date("GrA-5635", 11210, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=1553.9;
};
R_Date("GrA-5634", 11415, 145)
{
 color="Magenta";
 Outlier(0.05);
 z=1551.0;
};
R_Date("GrA-10268", 11179, 128)
{
 color="Magenta";
 Outlier(0.05);
 z=1548.7;
};
R_Date("GrA-4532/GrA-8177", 10995, 39)
{
 color="Magenta";
 Outlier(0.05);
 z=1548.0;
};
Date("=SG18_Top")
{
 color="Gray";
 z=1546.5;
};
Date("=SG17_Bottom")
{
 color="Gray";
 z=1544.9;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-3077", 11000, 125)
{
 color="Purple";
 Outlier(0.05);
 z=1544.2;
};
R_Date("GrA-2920", 10915, 125)
{
 color="Purple";
 Outlier(0.05);
 z=1537.1;
};
R_Date("GrA-2908", 10700, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1531.3;
};
R_Date("GrA-8178", 10662, 69)
{
 color="Purple";
 Outlier(0.05);
 z=1514.4;
};
R_Date("GrA-2848", 10670, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1511.3;
};
R_Date("GrA-8179", 10671, 84)
{
 color="Purple";
 Outlier(0.05);
 z=1508.3;
};
R_Date("GrA-2906", 10380, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1502.3;
};
R_Date("GrA-2913b", 10590, 95)
{
 color="Purple";
 Outlier(0.05);
 z=1496.3;
};
R_Date("GrA-2837", 10710, 110)
{
 color="Purple";
 Outlier(0.05);
 z=1493.4;
};
R_Date("GrA-2981b", 10370, 125)
{
 color="Purple";
 Outlier(0.05);
 z=1484.7;
};
R_Date("GrA-2970", 10395, 105)
{
 color="Purple";
 Outlier(0.05);
 z=1473.0;
};
R_Date("GrA-1736", 10246, 80)
{
 color="Purple";
 Outlier(0.05);
 z=1464.0;
};
R_Date("GrA-2836", 10455, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1461.0;
};
R_Date("GrA-2969", 10100, 105)
{
 color="Purple";
 Outlier(0.05);
 z=1458.0;
};
Date("=SG17_Top")
{
 color="Gray";
 z=1456.5;
};
Date("=SG16_Bottom")
{
 color="Gray";
 z=1440.7;
};
R_Date("GrA-2909/GrA-8181", 10211, 57)
{
 color="Magenta";
 Outlier(0.05);
 z=1433.6;
};
R_Date("GrA-2902", 10165, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1430.5;
};
R_Date("GrA-3078", 10285, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=1421.3;
};
R_Date("GrA-10234", 10411, 121)
{
 color="Magenta";
 Outlier(0.05);
 z=1417.8;
};
R_Date("GrA-2916", 10095, 100)
{
 color="Magenta";
 Outlier(0.05);
 z=1412.6;
};
R_Date("GrA-2917", 10145, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1409.6;
};
R_Date("GrA-2838", 10055, 100)
{
 color="Magenta";
 Outlier(0.05);
 z=1404.1;
};
R_Date("GrA-2961", 10095, 125)
{
 color="Magenta";
 Outlier(0.05);
 z=1401.4;
};
R_Date("GrA-2911", 10125, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1398.5;
};
R_Date("GrA-10233", 10280, 87)
{
 color="Magenta";
 Outlier(0.05);
 z=1396.3;
};
R_Date("GrA-2905", 9860, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1395.6;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-8182", 9963, 77)
{
 color="Magenta";
 Outlier(0.05);
 z=1392.9;
};
R_Date("GrA-10240", 10153, 76)
{
 color="Magenta";
 Outlier(0.05);
 z=1391.7;
};
R_Date("GrA-2904", 10005, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1387.5;
};
R_Date("GrA-3086", 10075, 85)
{
 color="Magenta";
 Outlier(0.05);
 z=1381.2;
};
R_Date("GrA-10260", 10027, 84)
{
 color="Magenta";
 Outlier(0.05);
 z=1371.8;
};
Date("=SG16_Top")
{
 color="Gray";
 z=1362.2;
};
Date("=SG15_Bottom")
{
 color="Gray";
 z=1343.0;
};
R_Date("GrA-2907", 9495, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1341.5;
};
R_Date("GrA-3083", 9555, 105)
{
 color="Purple";
 Outlier(0.05);
 z=1332.5;
};
R_Date("GrA-2912", 9625, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1326.3;
};
R_Date("GrA-2913a", 9405, 80)
{
 color="Purple";
 Outlier(0.05);
 z=1323.5;
};
R_Date("GrA-8183", 9356, 59)
{
 color="Purple";
 Outlier(0.05);
 z=1320.4;
};
R_Date("GrA-2944", 9320, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1314.3;
};
R_Date("GrA-2847", 9525, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1311.3;
};
R_Date("GrA-3081", 9535, 80)
{
 color="Purple";
 Outlier(0.05);
 z=1305.2;
};
R_Date("GrA-2915", 9635, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1299.4;
};
R_Date("GrA-4585", 9260, 180)
{
 color="Purple";
 Outlier(0.05);
 z=1289.8;
};
R_Date("GrA-2921", 9270, 115)
{
 color="Purple";
 Outlier(0.05);
 z=1283.4;
};
R_Date("GrA-2845", 9150, 115)
{
 color="Purple";
 Outlier(0.05);
 z=1280.1;
};
R_Date("GrA-2971", 9280, 115)
{
 color="Purple";
 Outlier(0.05);
 z=1272.7;
};
R_Date("GrA-10243", 9404, 74)
{
 color="Purple";
 Outlier(0.05);
 z=1270.4;
};
R_Date("GrA-8184", 9071, 72)
{
 color="Purple";
 Outlier(0.05);
 z=1264.4;
};
R_Date("GrA-3079", 8970, 120)
{
 color="Purple";
 Outlier(0.05);
 z=1262.3;
};
Date("=SG15_Top")
{
 color="Gray";
 z=1261.8;
};
Date("=SG14_Bottom")
{
 color="Gray";
 z=1257.4;
};
R_Date("GrA-2890", 8665, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=1246.4;
};
R_Date("GrA-3082", 8830, 95)
{
 color="Magenta";
 Outlier(0.05);
 z=1235.4;
};
R_Date("GrA-2844", 8845, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=1219.5;
};
```

OCM-6.2 (continued):

```
R_Date("GrA-3080", 9055, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=1210.6;
};
R_Date("GrA-3085", 8900, 90)
{
 color="Magenta";
 Outlier(0.05);
 z=1204.4;
};
R_Date("GrA-2835", 8775, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=1194.9;
};
R_Date("GrA-3087", 8765, 80)
{
 color="Magenta";
 Outlier(0.05);
 z=1187.6;
};
R_Date("GrA-2843", 8635, 110)
{
 color="Magenta";
 Outlier(0.05);
 z=1178.4;
};
Date("=SG14_Top")
{
 color="Gray";
 z=1170.9;
};
Date("=SG13_Bottom")
{
 color="Gray";
 z=1159.9;
};
R_Date("GrA-2842", 8635, 110)
{
 color="Purple";
 Outlier(0.05);
 z=1155.4;
};
R_Date("GrA-2901", 8200, 105)
{
 color="Purple";
 Outlier(0.05);
 z=1142.3;
};
R_Date("GrA-2947/GrA-2948", 8050, 70)
{
 color="Purple";
 Outlier(0.05);
 z=1125.4;
};
R_Date("GrA-2840", 8085, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1120.5;
};
R_Date("GrA-6236", 8035, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1117.4;
};
R_Date("GrA-6235", 8050, 80)
{
 color="Purple";
 Outlier(0.05);
 z=1114.3;
};
R_Date("GrA-2914", 8020, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1108.1;
};

R_Date("GrA-2839", 8150, 110)
{
 color="Purple";
 Outlier(0.05);
 z=1099.4;
};
R_Date("GrA-6232", 8035, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1095.8;
};
R_Date("GrA-6233", 8020, 90)
{
 color="Purple";
 Outlier(0.05);
 z=1092.7;
};
R_Date("GrA-2849", 7805, 100)
{
 color="Purple";
 Outlier(0.05);
 z=1083.4;
};
R_Date("GrA-6234", 7610, 70)
{
 color="Purple";
 Outlier(0.05);
 z=1074.2;
};
Boundary("=SG13_Top")
{
 color="Gray";
 z=1072.7;
};
};

Difference("SG33_to_SG34", "SG33_Bottom", SG34_Top");
Difference("SG32_to_SG33", "SG32_Bottom", SG33_Top");
Difference("SG31_to_SG32", "SG31_Bottom", SG32_Top");
Difference("SG30_to_SG31", "SG30_Bottom", SG31_Top");
Difference("SG29_to_SG30", "SG29_Bottom", SG30_Top");
Difference("SG28_to_SG29", "SG28_Bottom", SG29_Top");
Difference("SG27_to_SG28", "SG27_Bottom", SG28_Top");
Difference("SG26_to_SG27", "SG26_Bottom", SG27_Top");
Difference("SG25_to_SG26", "SG25_Bottom", SG26_Top");
Difference("SG24_to_SG25", "SG24_Bottom", SG25_Top");
Difference("SG23_to_SG24", "SG23_Bottom", SG24_Top");
Difference("SG22_to_SG23", "SG22_Bottom", SG23_Top");
Difference("SG21_to_SG22", "SG21_Bottom", SG22_Top");
Difference("SG20_to_SG21", "SG20_Bottom", SG21_Top");
Difference("SG19_to_SG20", "SG19_Bottom", SG20_Top");
Difference("SG18_to_SG19", "SG18_Bottom", SG19_Top");
Difference("SG17_to_SG18", "SG17_Bottom", SG18_Top");
Difference("SG16_to_SG17", "SG16_Bottom", SG17_Top");
Difference("SG15_to_SG16", "SG15_Bottom", SG16_Top");
Difference("SG14_to_SG15", "SG14_Bottom", SG15_Top");
Difference("SG13_to_SG14", "SG13_Bottom", SG14_Top");
```

OCM-6.2 (continued):

```
 Difference("Duration_SG34", "SG34_Top", SG34_Bottom");
 Difference("Duration_SG33", "SG33_Top", SG33_Bottom");
 Difference("Duration_SG32", "SG32_Top", "SG32_Bottom");
 Difference("Duration_SG31", "SG31_Top", "SG31_Bottom");
 Difference("Duration_SG30", "SG30_Top", "SG30_Bottom");
 Difference("Duration_SG29", "SG29_Top", "SG29_Bottom");
 Difference("Duration_SG28", "SG28_Top", "SG28_Bottom");
 Difference("Duration_SG27", "SG27_Top", "SG27_Bottom");
 Difference("Duration_SG26", "SG26_Top", "SG26_Bottom");
 Difference("Duration_SG25", "SG25_Top", "SG25_Bottom");
 Difference("Duration_SG24", "SG24_Top", "SG24_Bottom");
 Difference("Duration_SG23", "SG23_Top", "SG23_Bottom");
 Difference("Duration_SG22", "SG22_Top", "SG22_Bottom");
 Difference("Duration_SG21", "SG21_Top", "SG21_Bottom");
 Difference("Duration_SG20", "SG20_Top", "SG20_Bottom");
 Difference("Duration_SG19", "SG19_Top", "SG19_Bottom");
 Difference("Duration_SG18", "SG18_Top", "SG18_Bottom");
 Difference("Duration_SG17", "SG17_Top", "SG17_Bottom");
 Difference("Duration_SG16", "SG16_Top", "SG16_Bottom");
 Difference("Duration_SG15", "SG15_Top", "SG15_Bottom");
 Difference("Duration_SG14", "SG14_Top", "SG14_Bottom");
 Difference("Duration_SG13", "SG13_Top", "SG13_Bottom");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-7.1:

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 P_Sequence("SG06 All Data", 7.44)
 {
  Boundary("IntCal09_TreeRing_Limit")
  {
   z=2246;
   color="Gray";
  };
  R_F14C("OxA-24208", 0.27375, 0.00189)
  {
   z=2208;
   Outlier(0.05);
   color="Blue";
  };
  R_Combine("OxA-24223/SUERC-20502")
  {
   R_F14C("OxA-24223", 0.27080, 0.00147)
   {
    Outlier(0.05);
    color="Blue";
   };
   R_F14C("SUERC-20502", 0.27244, 0.00156)
   {
    Outlier(0.05);
    color="DeepPink";
   };
   z=2136;
   Outlier(0.05);
   color="MediumOrchid";
  };
  R_F14C("SUERC-23359", 0.27419, 0.00156)
  {
   z=2129;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("SUERC-17726", 0.28296, 0.00162)
  {
   z=1994;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24273", 0.27643, 0.00143)
  {
   z=1826;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24193", 0.27793, 0.00147)
  {
   z=1787;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24433", 0.27917, 0.00146)
  {
   z=1708;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24250", 0.28082, 0.00158)
  {
   z=1633;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-29862", 0.27661, 0.00136)
  {
   z=1621;
   Outlier(0.05);
   color="DeepPink";
  };
R_F14C("SUERC-18130", 0.28166, 0.00159)
{
 z=1583;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24448/OxA-24449")
{
 R_F14C("OxA-24448", 0.28675, 0.00177)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24449", 0.28597, 0.00176)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1543;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29832", 0.28566, 0.00136)
{
 z=1506;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24292/SUERC-29831")
{
 R_F14C("OxA-24292", 0.28825, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29831", 0.28399, 0.00140)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1470;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-29830", 0.28372, 0.00137)
{
 z=1458;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20491", 0.28748, 0.00161)
{
 z=1434;
 Outlier(0.05);
 color="DeepPink";
};
Date("Holocene Base")
{
 z=1395;
 color="Green";
};
R_F14C("OxA-24196", 0.28358, 0.00177)
{
 z=1371;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23746", 0.28606, 0.00265)
{
 z=1370;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24455", 0.29012, 0.00201)
{
 z=1311;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.1 (continued):

```
R_Combine("OxA-24200/SUERC-29521")
{
 R_F14C("OxA-24200", 0.28511, 0.00197)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29521", 0.28464, 0.00147)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1271;
 Outlier(0.05);
 color="MediumOrchid";
};
R_Combine("OxA-24446/OxA-24447")
{
 R_F14C("OxA-24446", 0.29215, 0.00181)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24447", 0.29260, 0.00180)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1060;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17115", 0.29463, 0.00183)
{
 z=994;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17717", 0.29691, 0.00162)
{
 z=988;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24431/OxA-24432/
SUERC-20490")
{
 R_F14C("OxA-24431", 0.30000, 0.00149)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24432", 0.29976, 0.00145)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20490", 0.30111, 0.00156)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=872;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24445", 0.30443, 0.00173)
{
 z=823;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29520", 0.30270, 0.00144)
{
 z=761;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-29519", 0.29896, 0.00142)
{
 z=692;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24310", 0.30277, 0.00163)
{
 z=657;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17721", 0.30457, 0.00191)
{
 z=596;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20489", 0.30461, 0.00164)
{
 z=566;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24367", 0.30468, 0.00148)
{
 z=500;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29518", 0.30799, 0.00142)
{
 z=408;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17120", 0.30868, 0.00174)
{
 z=348;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24207", 0.31677, 0.00206)
{
 z=237;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29517", 0.31287, 0.00162)
{
 z=205;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-29516", 0.31475, 0.00145)
{
 z=128;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24239", 0.32066, 0.00161)
{
 z=56;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24187", 0.31970, 0.00153)
{
 z=53;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26732", 0.32519, 0.00157)
{
 z=7;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.1 (continued):

```
  Date("U-Oki Tephra")
  {
   z=0;
   color="Gray";
  };
  R_F14C("OxA-24391", 0.33131, 0.00189)
  {
   z=-118;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24291", 0.32836, 0.00174)
  {
   z=-251;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-29513", 0.32814, 0.00157)
  {
   z=-258;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24440", 0.33147, 0.00195)
  {
   z=-263;
   Outlier(0.05);
   color="Blue";
  };
  Boundary("Combined_Varve_Count_Top")
  {
   z=-354;
   color="Gray";
  };
 };
 Difference("Combined_Varve_Count_Top_to_IntCal09_TreeRing_Limit",
 "Combined_Varve_Count_Top", "IntCal09_TreeRing_Limit");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-7.2:

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 D_Sequence("SG06_All_Data")
 {
  Boundary("IntCal09_TreeRing_Limit")
  {
   z=2246;
   color="Gray";
  };
  Gap(38);
  R_F14C("OxA-24208", 0.27375, 0.00189)
  {
   z=2208;
   Outlier(0.05);
   color="Blue";
  };
  Gap(72);
  R_Combine("OxA-24223/SUERC-20502")
  {
   R_F14C("OxA-24223", 0.27080, 0.00147)
   {
    Outlier(0.05);
    color="Blue";
   };
   R_F14C("SUERC-20502", 0.27244, 0.00156)
   {
    Outlier(0.05);
    color="DeepPink";
   };
   z=2136;
   Outlier(0.05);
   color="MediumOrchid";
  };
  Gap(7);
  R_F14C("SUERC-23359", 0.27419, 0.00156)
  {
   z=2129;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(135);
  R_F14C("SUERC-17726", 0.28296, 0.00162)
  {
   z=1994;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(168);
  R_F14C("OxA-24273", 0.27643, 0.00143)
  {
   z=1826;
   Outlier(0.05);
   color="Blue";
  };
  Gap(39);
  R_F14C("OxA-24193", 0.27793, 0.00147)
  {
   z=1787;
   Outlier(0.05);
   color="Blue";
  };
Gap(79);
R_F14C("OxA-24433", 0.27917, 0.00146)
{
 z=1708;
 Outlier(0.05);
 color="Blue";
};
Gap(75);
R_F14C("OxA-24250", 0.28082, 0.00158)
{
 z=1633;
 Outlier(0.05);
 color="Blue";
};
Gap(12);
R_F14C("SUERC-29862", 0.27661, 0.00136)
{
 z=1621;
 Outlier(0.05);
 color="DeepPink";
};
Gap(38);
R_F14C("SUERC-18130", 0.28166, 0.00159)
{
 z=1583;
 Outlier(0.05);
 color="DeepPink";
};
Gap(40);
R_Combine("OxA-24448/OxA-24449")
{
 R_F14C("OxA-24448", 0.28675, 0.00177)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24449", 0.28597, 0.00176)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1543;
 Outlier(0.05);
 color="Blue";
};
Gap(37);
R_F14C("SUERC-29832", 0.28566, 0.00136)
{
 z=1506;
 Outlier(0.05);
 color="DeepPink";
};
Gap(36);
R_Combine("OxA-24292/SUERC-29831")
{
 R_F14C("OxA-24292", 0.28825, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29831", 0.28399, 0.00140)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1470;
 Outlier(0.05);
 color="MediumOrchid";
};
```

OCM-7.2 (continued):

```
Gap(12);
R_F14C("SUERC-29830", 0.28372, 0.00137)
{
 z=1458;
 Outlier(0.05);
 color="DeepPink";
};
Gap(24);
R_F14C("SUERC-20491", 0.28748, 0.00161)
{
 z=1434;
 Outlier(0.05);
 color="DeepPink";
};
Gap(39);
Date("Holocene Onset")
{
 z=1395;
 color="Green";
};
Gap(24);
R_F14C("OxA-24196", 0.28358, 0.00177)
{
 z=1371;
 Outlier(0.05);
 color="Blue";
};
Gap(1);
R_F14C("SUERC-23746", 0.28606, 0.00265)
{
 z=1370;
 Outlier(0.05);
 color="DeepPink";
};
Gap(59);
R_F14C("OxA-24455", 0.29012, 0.00201)
{
 z=1311;
 Outlier(0.05);
 color="Blue";
};
Gap(40);
R_Combine("OxA-24200/SUERC-29521")
{
 R_F14C("OxA-24200", 0.28511, 0.00197)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29521", 0.28464, 0.00147)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1271;
 Outlier(0.05);
 color="MediumOrchid";
};
Gap(211);
R_Combine("OxA-24446/OxA-24447")
{
 R_F14C("OxA-24446", 0.29215, 0.00181)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24447", 0.29260, 0.00180)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1060;
 Outlier(0.05);
 color="Blue";
};
Gap(66);
R_F14C("SUERC-17115", 0.29463, 0.00183)
{
 z=994;
 Outlier(0.05);
 color="DeepPink";
};
Gap(6);
R_F14C("SUERC-17717", 0.29691, 0.00162)
{
 z=988;
 Outlier(0.05);
 color="DeepPink";
};
Gap(116);
R_Combine("OxA-24431/OxA-24432/
SUERC-20490")
{
 R_F14C("OxA-24431", 0.30000, 0.00149)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24432", 0.29976, 0.00145)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20490", 0.30111, 0.00156)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=872;
 Outlier(0.05);
 color="MediumOrchid";
};
Gap(49);
R_F14C("OxA-24445", 0.30443, 0.00173)
{
 z=823;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.2 (continued):

```
Gap(62);
R_F14C("SUERC-29520", 0.30270, 0.00144)
{
 z=761;
 Outlier(0.05);
 color="DeepPink";
};
Gap(69);
R_F14C("SUERC-29519", 0.29896, 0.00142)
{
 z=692;
 Outlier(0.05);
 color="DeepPink";
};
Gap(35);
R_F14C("OxA-24310", 0.30277, 0.00163)
{
 z=657;
 Outlier(0.05);
 color="Blue";
};
Gap(61);
R_F14C("SUERC-17721", 0.30457, 0.00191)
{
 z=596;
 Outlier(0.05);
 color="DeepPink";
};
Gap(30);
R_F14C("SUERC-20489", 0.30461, 0.00164)
{
 z=566;
 Outlier(0.05);
 color="DeepPink";
};
Gap(66);
R_F14C("OxA-24367", 0.30468, 0.00148)
{
 z=500;
 Outlier(0.05);
 color="Blue";
};
Gap(92);
R_F14C("SUERC-29518", 0.30799, 0.00142)
{
 z=408;
 Outlier(0.05);
 color="DeepPink";
};
Gap(60);
R_F14C("SUERC-17120", 0.30868, 0.00174)
{
 z=348;
 Outlier(0.05);
 color="DeepPink";
};
Gap(111);
R_F14C("OxA-24207", 0.31677, 0.00206)
{
 z=237;
 Outlier(0.05);
 color="Blue";
};
Gap(32);
R_F14C("SUERC-29517", 0.31287, 0.00162)
{
 z=205;
 Outlier(0.05);
 color="DeepPink";
};
Gap(77);
R_F14C("SUERC-29516", 0.31475, 0.00145)
{
 z=128;
 Outlier(0.05);
 color="DeepPink";
};
Gap(72);
R_F14C("OxA-24239", 0.32066, 0.00161)
{
 z=56;
 Outlier(0.05);
 color="Blue";
};
Gap(3);
R_F14C("OxA-24187", 0.31970, 0.00153)
{
 z=53;
 Outlier(0.05);
 color="Blue";
};
Gap(46);
R_F14C("SUERC-26732", 0.32519, 0.00157)
{
 z=7;
 Outlier(0.05);
 color="DeepPink";
};
Gap(7);
Date("U-Oki Tephra")
{
 z=0;
 color="Gray";
};
Gap(118);
R_F14C("OxA-24391", 0.33131, 0.00189)
{
 z=-118;
 Outlier(0.05);
 color="Blue";
};
Gap(133);
R_F14C("OxA-24291", 0.32836, 0.00174)
{
 z=-251;
 Outlier(0.05);
 color="Blue";
};
Gap(7);
R_F14C("SUERC-29513", 0.32814, 0.00157)
{
 z=-258;
 Outlier(0.05);
 color="DeepPink";
};
Gap(5);
R_F14C("OxA-24440", 0.33147, 0.00195)
{
 z=-263;
 Outlier(0.05);
 color="Blue";
};
Gap(91);
Boundary("Combined_Varve_Count_Top")
{
 z=-354;
 color="Gray";
};
};
```

OCM-7.2 (continued):

```
 Difference("Combined_Varve_Count_Top_to_IntCal09_TreeRing_Limit",
 "Combined_Varve_Count_Top", "IntCal09_TreeRing_Limit");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-7.3:

Same as OCM-7.1, but line 11 changed to:
```
Sequence("SG06 Data")
```

OCM-7.4:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 0.0744)
```

OCM-7.5:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 0.744)
```

OCM-7.6:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 1)
```

OCM-7.7:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 2.5)
```

OCM-7.8:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 5)
```

OCM-7.9:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 6)
```

OCM-7.10:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 7)
```

OCM-7.11:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 8)
```

OCM-7.12:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 9)
```

OCM-7.13:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 10)
```

OCM-7.14:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 20)
```

OCM-7.15:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 50)
```

OCM-7.16:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 74.4)
```

OCM-7.17:

Same as OCM-7.1, but line 11 changed to:
```
P_Sequence("SG06 Data", 744)
```

OCM-7.18:

Same as OCM-7.1, but line 11 changed to:
```
U_Sequence("SG06 Data")
```

OCM-7.19:

Same as OCM-7.1, but additional 5 data points included:

```
R_F14C("SUERC-23750", 0.28407, 0.00271)
{
 z=1601;
 Outlier(0.05);
 color="DeepPink";
};

R_F14C("OxA-24468", 0.28934, 0.00336)
{
 z=1350;
 Outlier(0.05);
 color="Blue";
};

R_F14C("SUERC-19061", 0.42004, 0.00494)
{
 z=1149;
 Outlier(0.05);
 color="DeepPink";
};

R_Combine("OxA-24440/SUERC-28906")
{
 R_F14C("OxA-24440", 0.33147, 0.00195)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28906", 0.33732, 0.00191)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=-263;
 Outlier(0.05);
 color="MediumOrchid";
};

R_F14C("SUERC-16524", 0.34656, 0.00308)
{
 z=-282;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.20:

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 P_Sequence("SG06_All_Data", 6.33)
 {
  Boundary("IntCal09_TreeRing_Limit")
  {
   z=1485;
   color="Gray";
  };
  R_F14C("OxA-24208", 0.27375, 0.00189)
  {
   z=1481.1;
   Outlier(0.05);
   color="Blue";
  };
  R_Combine("OxA-24223/SUERC-20502")
  {
   R_F14C("OxA-24223", 0.27080, 0.00147)
   {
    Outlier(0.05);
    color="Blue";
   };
   R_F14C("SUERC-20502", 0.27244, 0.00156)
   {
    Outlier(0.05);
    color="DeepPink";
   };
   z=1474.3;
   Outlier(0.05);
   color="MediumOrchid";
  };
  R_F14C("SUERC-23359", 0.27419, 0.00156)
  {
   z=1473.8;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("SUERC-17726", 0.28296, 0.00162)
  {
   z=1461.1;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24273", 0.27643, 0.00143)
  {
   z=1445.6;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24193", 0.27793, 0.00147)
  {
   z=1441.7;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24433", 0.27917, 0.00146)
  {
   z=1434.1;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24250", 0.28082, 0.00158)
  {
   z=1426.9;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-29862", 0.27661, 0.00136)
  {
   z=1425.7;
   Outlier(0.05);
   color="DeepPink";
  };
R_F14C("SUERC-18130", 0.28166, 0.00159)
{
 z=1422.2;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24448/OxA-24449")
{
 R_F14C("OxA-24448", 0.28675, 0.00177)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24449", 0.28597, 0.00176)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1418.2;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-29832", 0.28566, 0.00136)
{
 z=1414.6;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24292/SUERC-29831")
{
 R_F14C("OxA-24292", 0.28825, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29831", 0.28399, 0.00140)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1410.8;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-29830", 0.28372, 0.00137)
{
 z=1409.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20491", 0.28748, 0.00161)
{
 z=1407.1;
 Outlier(0.05);
 color="DeepPink";
};
Date("Holocene Base")
{
 z=1402.9;
 color="Green";
};
R_F14C("OxA-24196", 0.28358, 0.00177)
{
 z=1400.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23746", 0.28606, 0.00265)
{
 z=1400.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24455", 0.29012, 0.00201)
{
 z=1393.8;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.20 (continued):

```
R_Combine("OxA-24200/SUERC-29521")
{
 R_F14C("OxA-24200", 0.28511, 0.00197)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29521", 0.28464, 0.00147)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1389.5;
 Outlier(0.05);
 color="MediumOrchid";
};
R_Combine("OxA-24446/OxA-24447")
{
 R_F14C("OxA-24446", 0.29215, 0.00181)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24447", 0.29260, 0.00180)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1369.7;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-17115", 0.29463, 0.00183)
{
 z=1363.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17717", 0.29691, 0.00162)
{
 z=1363.1;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24431/OxA-24432/
SUERC-20490")
{
 R_F14C("OxA-24431", 0.30000, 0.00149)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24432", 0.29976, 0.00145)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20490", 0.30111, 0.00156)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1352.0;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24445", 0.30443, 0.00173)
{
 z=1347.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29520", 0.30270, 0.00144)
{
 z=1341.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-29519", 0.29896, 0.00142)
{
 z=1333.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24310", 0.30277, 0.00163)
{
 z=1330.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17721", 0.30457, 0.00191)
{
 z=1323.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20489", 0.30461, 0.00164)
{
 z=1320.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24367", 0.30468, 0.00148)
{
 z=1314.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29518", 0.30799, 0.00142)
{
 z=1304.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17120", 0.30868, 0.00174)
{
 z=1298.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24207", 0.31677, 0.00206)
{
 z=1286.7;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29517", 0.31287, 0.00162)
{
 z=1283.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-29516", 0.31475, 0.00145)
{
 z=1275.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24239", 0.32066, 0.00161)
{
 z=1268.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24187", 0.31970, 0.00153)
{
 z=1268.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26732", 0.32519, 0.00157)
{
 z=1263.6;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.20 (continued):

```
 Date("U-Oki Tephra")
 {
  z=1262.8;
  color="Gray";
 };
 R_F14C("OxA-24391", 0.33131, 0.00189)
 {
  z=1251.0;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24291", 0.32836, 0.00174)
 {
  z=1238.0;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29513", 0.32814, 0.00157)
 {
  z=1237.3;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-24440", 0.33147, 0.00195)
 {
  z=1236.8;
  Outlier(0.05);
  color="Blue";
 };
 Boundary("Combined_Varve_Count_Top")
 {
  z=1227.2;
  color="Gray";
 };
};
```

```
 Difference("Combined_Varve_Count_Top_to_IntCal09_TreeRing_Limit",
 "Combined_Varve_Count_Top", "IntCal09_TreeRing_Limit");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-7.21:

Same as OCM-7.20, but line 11 changed to:
```
Sequence("SG06 Data")
```

OCM-7.22:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 0.0633)
```

OCM-7.23:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 0.633)
```

OCM-7.24:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 1)
```

OCM-7.25:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 2.5)
```

OCM-7.26:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 5)
```

OCM-7.27:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 7.5)
```

OCM-7.28:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 10)
```

OCM-7.29:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 25)
```

OCM-7.30:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 50)
```

OCM-7.31:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 63.3)
```

OCM-7.32:

Same as OCM-7.20, but line 11 changed to:
```
P_Sequence("SG06 Data", 633)
```

OCM-7.33:

Same as OCM-7.20, but line 11 changed to:
```
U_Sequence("SG06 Data")
```

OCM-7.34:

Same as OCM-7.20, but additional 5 data points included:

```
R_F14C("SUERC-23750", 0.28407, 0.00271)
{
 z=1423.7;
 Outlier(0.05);
 color="DeepPink";
};

R_F14C("OxA-24468", 0.28934, 0.00336)
{
 z=1397.9;
 Outlier(0.05);
 color="Blue";
};

R_F14C("SUERC-19061", 0.42004, 0.00494)
{
 z=1377.5;
 Outlier(0.05);
 color="DeepPink";
};

R_Combine("OxA-24440/SUERC-28906")
{
 R_F14C("OxA-24440", 0.33147, 0.00195)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28906", 0.33732, 0.00191)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1236.8;
 Outlier(0.05);
 color="MediumOrchid";
};

R_F14C("SUERC-16524", 0.34656, 0.00308)
{
 z=1234.9;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.35:

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 P_Sequence("SG06_All_Data", 6.33)
 {
  Boundary("IntCal09_TreeRing_Limit")
  {
   z=1485.0;
   color="Gray";
  };
  R_F14C("OxA-24208", 0.27375, 0.00189)
  {
   z=1481.1;
   Outlier(0.05);
   color="Blue";
  };
  R_Combine("OxA-24223/SUERC-20502")
  {
   R_F14C("OxA-24223", 0.27080, 0.00147)
   {
    Outlier(0.05);
    color="Blue";
   };
   R_F14C("SUERC-20502", 0.27244, 0.00156)
   {
    Outlier(0.05);
    color="DeepPink";
   };
   z=1474.3;
   Outlier(0.05);
   color="MediumOrchid";
  };
  R_F14C("SUERC-23359", 0.27419, 0.00156)
  {
   z=1473.8;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("SUERC-17726", 0.28296, 0.00162)
  {
   z=1461.1;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24273", 0.27643, 0.00143)
  {
   z=1445.6;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24193", 0.27793, 0.00147)
  {
   z=1441.7;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24433", 0.27917, 0.00146)
  {
   z=1434.1;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24250", 0.28082, 0.00158)
  {
   z=1426.9;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-29862", 0.27661, 0.00136)
  {
   z=1425.7;
   Outlier(0.05);
   color="DeepPink";
  };
R_F14C("SUERC-18130", 0.28166, 0.00159)
{
 z=1422.2;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24448/OxA-24449")
{
 R_F14C("OxA-24448", 0.28675, 0.00177)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24449", 0.28597, 0.00176)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1418.2;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-29832", 0.28566, 0.00136)
{
 z=1414.6;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24292/SUERC-29831")
{
 R_F14C("OxA-24292", 0.28825, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29831", 0.28399, 0.00140)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1410.8;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-29830", 0.28372, 0.00137)
{
 z=1409.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20491", 0.28748, 0.00161)
{
 z=1407.1;
 Outlier(0.05);
 color="DeepPink";
};
Date("Holocene Base")
{
 z=1402.9;
 color="Green";
};
R_F14C("OxA-24196", 0.28358, 0.00177)
{
 z=1400.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23746", 0.28606, 0.00265)
{
 z=1400.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24455", 0.29012, 0.00201)
{
 z=1393.8;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.35 (continued):

```
R_Combine("OxA-24200/SUERC-29521")
{
 R_F14C("OxA-24200", 0.28511, 0.00197)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29521", 0.28464, 0.00147)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1389.5;
 Outlier(0.05);
 color="MediumOrchid";
};
R_Combine("OxA-24446/OxA-24447")
{
 R_F14C("OxA-24446", 0.29215, 0.00181)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24447", 0.29260, 0.00180)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1369.7;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-17115", 0.29463, 0.00183)
{
 z=1363.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17717", 0.29691, 0.00162)
{
 z=1363.1;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24431/OxA-24432/
SUERC-20490")
{
 R_F14C("OxA-24431", 0.30000, 0.00149)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24432", 0.29976, 0.00145)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20490", 0.30111, 0.00156)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1352.0;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24445", 0.30443, 0.00173)
{
 z=1347.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29520", 0.30270, 0.00144)
{
 z=1341.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-29519", 0.29896, 0.00142)
{
 z=1333.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24310", 0.30277, 0.00163)
{
 z=1330.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17721", 0.30457, 0.00191)
{
 z=1323.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20489", 0.30461, 0.00164)
{
 z=1320.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24367", 0.30468, 0.00148)
{
 z=1314.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29518", 0.30799, 0.00142)
{
 z=1304.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17120", 0.30868, 0.00174)
{
 z=1298.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24207", 0.31677, 0.00206)
{
 z=1286.7;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29517", 0.31287, 0.00162)
{
 z=1283.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-29516", 0.31475, 0.00145)
{
 z=1275.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24239", 0.32066, 0.00161)
{
 z=1268.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24187", 0.31970, 0.00153)
{
 z=1268.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26732", 0.32519, 0.00157)
{
 z=1263.6;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.35 (continued):

```
Date("U-Oki Tephra")
{
 z=1262.8;
 color="Gray";
};
R_F14C("OxA-24391", 0.33131, 0.00189)
{
 z=1251.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24291", 0.32836, 0.00174)
{
 z=1238.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29513", 0.32814, 0.00157)
{
 z=1237.3;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24440", 0.33147, 0.00195)
{
 z=1236.8;
 Outlier(0.05);
 color="Blue";
};
Date("Combined_Varve_Count_Top")
{
 z=1227.2;
 color="Gray";
};
R_F14C("SUERC-17118", 0.33643, 0.00180)
{
 z=1211.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24309", 0.33251, 0.00171)
{
 z=1211.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25995", 0.33335, 0.00158)
{
 z=1207.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24329", 0.33547, 0.00194)
{
 z=1203.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24425", 0.34438, 0.00172)
{
 z=1185.6;
 Outlier(0.05);
 color="Blue";
};
R_Combine("OxA-24420/SUERC-26366")
{
 R_F14C("OxA-24420", 0.34973, 0.00165)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-26366", 0.35047, 0.00173)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1175.7;
 Outlier(0.05);
 color="MediumOrchid";
};
```

```
R_F14C("OxA-24192", 0.35310, 0.00161)
{
 z=1158.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24280", 0.35558, 0.00188)
{
 z=1142.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20486", 0.36218, 0.00172)
{
 z=1134.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24249", 0.36500, 0.00178)
{
 z=1121.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24288", 0.36568, 0.00157)
{
 z=1108.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24259", 0.36450, 0.00179)
{
 z=1099.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-18129", 0.38029, 0.00192)
{
 z=1081.3;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24424/SUERC-28229")
{
 R_F14C("OxA-24424", 0.38159, 0.00193)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28229", 0.37962, 0.00180)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1075.6;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24369", 0.37987, 0.00167)
{
 z=1073.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-X-2297-53", 0.37506, 0.00193)
{
 z=1055.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20485", 0.39771, 0.00190)
{
 z=1054.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24246", 0.39928, 0.00178)
{
 z=1052.4;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.35 (continued):

```
R_F14C("SUERC-20484", 0.39297, 0.00199)
{
 z=1042.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24287", 0.39309, 0.00169)
{
 z=1041.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24322", 0.40132, 0.00187)
{
 z=1035.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20482", 0.40079, 0.00203)
{
 z=1030.4;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24267/OxA-24268")
{
 R_F14C("OxA-24267", 0.40381, 0.00188)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24268", 0.40457, 0.00192)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1024.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23358", 0.41217, 0.00245)
{
 z=1012.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24286", 0.40957, 0.00172)
{
 z=1010.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17725", 0.42092, 0.00205)
{
 z=1002.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24272", 0.41367, 0.00179)
{
 z=998.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25994", 0.42068, 0.00212)
{
 z=989.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20481", 0.43701, 0.00213)
{
 z=980.2;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24419/SUERC-28207")
{
 R_F14C("OxA-24419", 0.43810, 0.00184)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28207", 0.43349, 0.00252)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=972.5;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24245", 0.44651, 0.00191)
{
 z=969.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26365", 0.44202, 0.00203)
{
 z=966.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17117", 0.46626, 0.00218)
{
 z=952.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-X-2339-40", 0.47133, 0.00201)
{
 z=945.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25993", 0.46126, 0.00202)
{
 z=942.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24279", 0.46818, 0.00205)
{
 z=924.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20480", 0.47176, 0.00237)
{
 z=910.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26731", 0.48677, 0.00232)
{
 z=891.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24255", 0.49081, 0.00191)
{
 z=883.1;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.35 (continued):

```
R_Combine("OxA-24181/OxA-24182/
SUERC-13332")
{
 R_F14C("OxA-24181", 0.50427, 0.00211)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24182", 0.50688, 0.00218)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-13332", 0.50647, 0.00220)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=862.9;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-23355", 0.51567, 0.00244)
{
 z=847.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24262", 0.51488, 0.00210)
{
 z=840.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26362", 0.52150, 0.00246)
{
 z=826.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-28228", 0.53342, 0.00252)
{
 z=806.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20479", 0.53917, 0.00235)
{
 z=798.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25992", 0.53838, 0.00235)
{
 z=786.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24220", 0.54591, 0.00206)
{
 z=778.7;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-28206", 0.54454, 0.00255)
{
 z=766.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-28203", 0.56227, 0.00248)
{
 z=759.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25990", 0.55203, 0.00255)
{
 z=747.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24238", 0.56021, 0.00238)
{
 z=740.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-X-2360-44", 0.57631, 0.00229)
{
 z=734.8;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23354", 0.56442, 0.00264)
{
 z=724.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25989", 0.57209, 0.00249)
{
 z=701.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24285", 0.57915, 0.00208)
{
 z=693.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24195", 0.59754, 0.00251)
{
 z=681.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20476", 0.59533, 0.00277)
{
 z=679.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24284", 0.59203, 0.00209)
{
 z=672.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26730", 0.58980, 0.00274)
{
 z=665.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26361", 0.59025, 0.00274)
{
 z=655.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24271", 0.60710, 0.00215)
{
 z=645.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25988", 0.60472, 0.00278)
{
 z=641.4;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.35 (continued):

```
R_Combine("OxA-24277/OxA-24278")
{
 R_F14C("OxA-24277", 0.61575, 0.00225)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24278", 0.61364, 0.00227)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=623.7;
 Outlier(0.05);
 color="Blue";
};
R_Combine("OxA-24237/SUERC-23353")
{
 R_F14C("OxA-24237", 0.61497, 0.00238)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-23353", 0.60915, 0.00270)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=620.1;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-20475", 0.62263, 0.00289)
{
 z=604.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26360", 0.63091, 0.00293)
{
 z=590.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24194", 0.62192, 0.00216)
{
 z=584.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20474", 0.63484, 0.00278)
{
 z=567.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24321", 0.63724, 0.00239)
{
 z=560.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25985", 0.64463, 0.00297)
{
 z=549.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24300", 0.65197, 0.00244)
{
 z=537.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20473", 0.65985, 0.00305)
{
 z=524.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-28201", 0.66057, 0.00308)
{
 z=517.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24320", 0.67543, 0.00233)
{
 z=497.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26729", 0.66715, 0.00302)
{
 z=489.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24232", 0.69322, 0.00234)
{
 z=475.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-28200", 0.69249, 0.00323)
{
 z=468.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24308", 0.69141, 0.00258)
{
 z=452.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26359", 0.70926, 0.00328)
{
 z=440.4;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-X-2297-56/OxA-X-2303-36")
{
 R_F14C("OxA-X-2297-56",0.73321,0.00229)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2303-36",0.73374,0.00247)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=430.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23360", 0.73124, 0.00320)
{
 z=420.4;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.35 (continued):

```
R_Combine("OxA-24235/OxA-24236/
SUERC-20472")
{
 R_F14C("OxA-24235", 0.73934, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24236", 0.73356, 0.00235)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20472", 0.73260, 0.00338)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=405.9;
 Outlier(0.05);
 color="MediumOrchid";
};
R_Combine("OxA-24183/SUERC-13335")
{
 R_F14C("OxA-24183", 0.73408, 0.00258)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-13335", 0.73655, 0.00320)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=398.3;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-25984", 0.74074, 0.00340)
{
 z=391.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-X-2347-43", 0.75789, 0.00222)
{
 z=384.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26358", 0.75030, 0.00329)
{
 z=379.3;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24243/OxA-24244")
{
 R_F14C("OxA-24243", 0.76908, 0.00259)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24244", 0.76774, 0.00261)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=361.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25983", 0.75513, 0.00347)
{
 z=354.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26357", 0.77511, 0.00340)
{
 z=336.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24319", 0.78793, 0.00259)
{
 z=329.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20499", 0.78506, 0.00359)
{
 z=314.2;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24379/SUERC-26728")
{
 R_F14C("OxA-24379", 0.80482, 0.00238)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-26728", 0.80178, 0.00349)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=299.7;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-25982", 0.79832, 0.00366)
{
 z=291.3;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24299", 0.79942, 0.00284)
{
 z=283.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26356", 0.82602, 0.00363)
{
 z=261.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24266", 0.83539, 0.00269)
{
 z=255.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25981", 0.84597, 0.00369)
{
 z=244.3;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24233", 0.85582, 0.00236)
{
 z=226.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23361", 0.86932, 0.00379)
{
 z=215.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24191", 0.89098, 0.00268)
{
 z=204.3;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.35 (continued):

```
 R_F14C("SUERC-20471", 0.91007, 0.00414)
 {
  z=176.6;
  Outlier(0.05);
  color="DeepPink";
 };
 Boundary("175m_EFD")
 {
  z=175.0;
  color="Gray";
 };
 R_F14C("SUERC-26355", 0.91722, 0.00402)
 {
  z=151.5;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-X-2270-49", 0.94715, 0.00293)
 {
  z=135.9;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-26727", 0.94469, 0.00412)
 {
  z=113.3;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-24231", 0.93908, 0.00273)
 {
  z=107.9;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-25980", 0.95074, 0.00414)
 {
  z=103.1;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-24276", 0.96829, 0.00294)
 {
  z=67.0;
  Outlier(0.05);
  color="Blue";
 };
 R_Combine("OxA-24328/SUERC-26724")
 {
  R_F14C("OxA-24328", 0.98812, 0.00333)
   {
    Outlier(0.05);
    color="Blue";
   };
  R_F14C("SUERC-26724", 0.98319, 0.00452)
  {
   Outlier(0.05);
   color="DeepPink";
  };
  z=42.0;
  Outlier(0.05);
  color="MediumOrchid";
 };

 Boundary("SG06_Core_Top", U(calBP(950),calBP(-50)))
 {
  z=35.0;
  color="Gray";
 };
};
Difference("Combined_Varve_Count_Top_to_IntCal09_TreeRing_Limit",
"Combined_Varve_Count_Top", "IntCal09_TreeRing_Limit");
Curve("IntCal09")
{
 color="Lime";
};
Curve("IntCal04")
{
 color="ForestGreen";
};
Curve("Fairbanks0805")
{
 color="Gold";
};
Curve("Hughen2006")
{
 color="SkyBlue";
};
Curve("Suigetsu2000")
{
 color="Red";
};
};
```

OCM-7.36:

Same as OCM-7.35, but line 11 changed to:
`Sequence("SG06 Data")`

OCM-7.37:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 0.0633)`

OCM-7.38:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 0.633)`

OCM-7.39:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 1)`

OCM-7.40:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 2.5)`

OCM-7.41:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 5)`

OCM-7.42:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 7.5)`

OCM-7.43:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 10)`

OCM-7.44:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 25)`

OCM-7.45:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 50)`

OCM-7.46:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 63.3)`

OCM-7.47:

Same as OCM-7.35, but line 11 changed to:
`P_Sequence("SG06 Data", 633)`

OCM-7.48:

Same as OCM-7.35, but line 11 changed to:
`U_Sequence("SG06 Data")`

OCM-7.49:

Same as OCM-7.35, but additional 11 data points included:

```
R_F14C("SUERC-23750", 0.28407, 0.00271)
{
 z=1423.7;
 Outlier(0.05);
 color="DeepPink";
};

R_F14C("OxA-24468", 0.28934, 0.00336)
{
 z=1397.9;
 Outlier(0.05);
 color="Blue";
};

R_F14C("SUERC-19061", 0.42004, 0.00494)
{
 z=1377.5;
 Outlier(0.05);
 color="DeepPink";
};

R_Combine("OxA-24440/SUERC-28906")
{
 R_F14C("OxA-24440", 0.33147, 0.00195)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28906", 0.33732, 0.00191)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1236.8;
 Outlier(0.05);
 color="MediumOrchid";
};

R_F14C("SUERC-16524", 0.34656, 0.00308)
{
 z=1234.9;
 Outlier(0.05);
 color="DeepPink";
};

R_F14C("SUERC-27503", 0.35119, 0.00206)
{
 z=1153.9;
 Outlier(0.05);
 color="DeepPink";
};

R_Combine("OxA-24351/SUERC-28203")
{
 R_F14C("OxA-24351", 0.54687, 0.0024)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28203", 0.56227, 0.00248)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=759.0;
 Outlier(0.05);
 color="MediumOrchid";
};

R_F14C("SUERC-28202", 0.55506, 0.00272)
{
 z=754.1;
 Outlier(0.05);
 color="DeepPink";
};

R_Combine("OxA-24238/ OxA-X-2316-09")
{
 R_F14C("OxA-24238", 0.56021, 0.00238)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2316-09", 0.54105, 0.00943)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=740.1;
 Outlier(0.05);
 color="Blue";
};

R_Combine("OxA-24235/OxA-24236/
OxA-X-2316-07/SUERC-20472")
{
 R_F14C("OxA-24235", 0.73934, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24236", 0.73356, 0.00235)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2316-07", 0.66924, 0.01735)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20472", 0.73260, 0.00338)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=405.9;
 Outlier(0.05);
 color="MediumOrchid";
};

R_Combine("OxA-24231/OxA-X-2248-48")
{
 R_F14C("OxA-24231", 0.93908, 0.00273)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2248-48", 0.91309, 0.00274)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=107.9;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.50:

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 P_Sequence("SG06_to_1519.1cm", 7.44)
 {
  Boundary("IntCal09_TreeRing_Limit")
  {
   z=2246;
   color="Gray";
  };
  R_F14C("OxA-24208", 0.27375, 0.00189)
  {
   z=2208;
   Outlier(0.05);
   color="Blue";
  };
  R_Combine("OxA-24223/SUERC-20502")
  {
   R_F14C("OxA-24223", 0.27080, 0.00147)
   {
    Outlier(0.05);
    color="Blue";
   };
   R_F14C("SUERC-20502", 0.27244, 0.00156)
   {
    Outlier(0.05);
    color="DeepPink";
   };
   z=2136;
   Outlier(0.05);
   color="MediumOrchid";
  };
  R_F14C("SUERC-23359", 0.27419, 0.00156)
  {
   z=2129;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("SUERC-17726", 0.28296, 0.00162)
  {
   z=1994;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24273", 0.27643, 0.00143)
  {
   z=1826;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24193", 0.27793, 0.00147)
  {
   z=1787;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24433", 0.27917, 0.00146)
  {
   z=1708;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24250", 0.28082, 0.00158)
  {
   z=1633;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-29862", 0.27661, 0.00136)
  {
   z=1621;
   Outlier(0.05);
   color="DeepPink";
  };
R_F14C("SUERC-18130", 0.28166, 0.00159)
{
 z=1583;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24448/OxA-24449")
{
 R_F14C("OxA-24448", 0.28675, 0.00177)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24449", 0.28597, 0.00176)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1543;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29832", 0.28566, 0.00136)
{
 z=1506;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24292/SUERC-29831")
{
 R_F14C("OxA-24292", 0.28825, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29831", 0.28399, 0.00140)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1470;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-29830", 0.28372, 0.00137)
{
 z=1458;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20491", 0.28748, 0.00161)
{
 z=1434;
 Outlier(0.05);
 color="DeepPink";
};
Date("Holocene Base")
{
 z=1395;
 color="Green";
};
R_F14C("OxA-24196", 0.28358, 0.00177)
{
 z=1371;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23746", 0.28606, 0.00265)
{
 z=1370;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24455", 0.29012, 0.00201)
{
 z=1311;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.50 (continued):

```
R_Combine("OxA-24200/SUERC-29521")
{
 R_F14C("OxA-24200", 0.28511, 0.00197)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29521", 0.28464, 0.00147)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1271;
 Outlier(0.05);
 color="MediumOrchid";
};
R_Combine("OxA-24446/OxA-24447")
{
 R_F14C("OxA-24446", 0.29215, 0.00181)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24447", 0.29260, 0.00180)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1060;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17115", 0.29463, 0.00183)
{
 z=994;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17717", 0.29691, 0.00162)
{
 z=988;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24431/OxA-24432/
SUERC-20490")
{
 R_F14C("OxA-24431", 0.30000, 0.00149)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24432", 0.29976, 0.00145)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20490", 0.30111, 0.00156)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=872;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24445", 0.30443, 0.00173)
{
 z=823;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29520", 0.30270, 0.00144)
{
 z=761;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-29519", 0.29896, 0.00142)
{
 z=692;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24310", 0.30277, 0.00163)
{
 z=657;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17721", 0.30457, 0.00191)
{
 z=596;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20489", 0.30461, 0.00164)
{
 z=566;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24367", 0.30468, 0.00148)
{
 z=500;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29518", 0.30799, 0.00142)
{
 z=408;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17120", 0.30868, 0.00174)
{
 z=348;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24207", 0.31677, 0.00206)
{
 z=237;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-29517", 0.31287, 0.00162)
{
 z=205;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-29516", 0.31475, 0.00145)
{
 z=128;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24239", 0.32066, 0.00161)
{
 z=56;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24187", 0.31970, 0.00153)
{
 z=53;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26732", 0.32519, 0.00157)
{
 z=7;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.50 (continued):

```
 Date("U-Oki Tephra")
 {
  z=0;
  color="Gray";
 };
 R_F14C("OxA-24391", 0.33131, 0.00189)
 {
  z=-118;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24291", 0.32836, 0.00174)
 {
  z=-251;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29513", 0.32814, 0.00157)
 {
  z=-258;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-24440", 0.33147, 0.00195)
 {
  z=-263;
  Outlier(0.05);
  color="Blue";
 };
 Boundary("Combined_Varve_Count_Top")
 {
  z=-354;
  color="Gray";
 };
};
P_Sequence("SG06_to_1250cm", 6.33)
{
 Boundary("=Combined_Varve_Count_Top")
 {
  z=1227.2;
  color="Gray";
 };
 R_F14C("SUERC-17118", 0.33643, 0.00180)
 {
  z=1211.9;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-24309", 0.33251, 0.00171)
 {
  z=1211.3;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-25995", 0.33335, 0.00158)
 {
  z=1207.1;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-24329", 0.33547, 0.00194)
 {
  z=1203.0;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24425", 0.34438, 0.00172)
 {
  z=1185.6;
  Outlier(0.05);
  color="Blue";
 };
R_Combine("OxA-24420/SUERC-26366")
{
 R_F14C("OxA-24420", 0.34973, 0.00165)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-26366", 0.35047, 0.00173)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1175.7;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24192", 0.35310, 0.00161)
{
 z=1158.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24280", 0.35558, 0.00188)
{
 z=1142.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20486", 0.36218, 0.00172)
{
 z=1134.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24249", 0.36500, 0.00178)
{
 z=1121.3;
 Outlier(0.05);
color="Blue";
};
R_F14C("OxA-24288", 0.36568, 0.00157)
{
 z=1108.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24259", 0.36450, 0.00179)
{
 z=1099.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-18129", 0.38029, 0.00192)
{
 z=1081.3;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24424/SUERC-28229")
{
 R_F14C("OxA-24424", 0.38159, 0.00193)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28229", 0.37962, 0.00180)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1075.6;
 Outlier(0.05);
 color="MediumOrchid";
};
```

OCM-7.50 (continued):

```
R_F14C("OxA-24369", 0.37987, 0.00167)
{
 z=1073.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-X-2297-53", 0.37506, 0.00193)
{
 z=1055.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20485", 0.39771, 0.00190)
{
 z=1054.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24246", 0.39928, 0.00178)
{
 z=1052.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20484", 0.39297, 0.00199)
{
 z=1042.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24287", 0.39309, 0.00169)
{
 z=1041.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24322", 0.40132, 0.00187)
{
 z=1035.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20482", 0.40079, 0.00203)
{
 z=1030.4;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24267/OxA-24268")
{
 R_F14C("OxA-24267", 0.40381, 0.00188)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24268", 0.40457, 0.00192)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1024.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23358", 0.41217, 0.00245)
{
 z=1012.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24286", 0.40957, 0.00172)
{
 z=1010.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17725", 0.42092, 0.00205)
{
 z=1002.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24272", 0.41367, 0.00179)
{
 z=998.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25994", 0.42068, 0.00212)
{
 z=989.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20481", 0.43701, 0.00213)
{
 z=980.2;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24419/SUERC-28207")
{
 R_F14C("OxA-24419", 0.43810, 0.00184)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28207", 0.43349, 0.00252)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=972.5;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24245", 0.44651, 0.00191)
{
 z=969.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26365", 0.44202, 0.00203)
{
 z=966.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17117", 0.46626, 0.00218)
{
 z=952.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-X-2339-40", 0.47133, 0.00201)
{
 z=945.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25993", 0.46126, 0.00202)
{
 z=942.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24279", 0.46818, 0.00205)
{
 z=924.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20480", 0.47176, 0.00237)
{
 z=910.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26731", 0.48677, 0.00232)
{
 z=891.6;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.50 (continued):

```
R_F14C("OxA-24255", 0.49081, 0.00191)
{
 z=883.1;
 Outlier(0.05);
 color="Blue";
};
R_Combine("OxA-24181/OxA-24182/
SUERC-13332")
{
 R_F14C("OxA-24181", 0.50427, 0.00211)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24182", 0.50688, 0.00218)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-13332", 0.50647, 0.00220)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=862.9;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-23355", 0.51567, 0.00244)
{
 z=847.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24262", 0.51488, 0.00210)
{
 z=840.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26362", 0.52150, 0.00246)
{
 z=826.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-28228", 0.53342, 0.00252)
{
 z=806.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20479", 0.53917, 0.00235)
{
 z=798.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25992", 0.53838, 0.00235)
{
 z=786.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24220", 0.54591, 0.00206)
{
 z=778.7;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-28206", 0.54454, 0.00255)
{
 z=766.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-28203", 0.56227, 0.00248)
{
 z=759.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25990", 0.55203, 0.00255)
{
 z=747.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24238", 0.56021, 0.00238)
{
 z=740.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-X-2360-44", 0.57631, 0.00229)
{
 z=734.8;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23354", 0.56442, 0.00264)
{
 z=724.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25989", 0.57209, 0.00249)
{
 z=701.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24285", 0.57915, 0.00208)
{
 z=693.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24195", 0.59754, 0.00251)
{
 z=681.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20476", 0.59533, 0.00277)
{
 z=679.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24284", 0.59203, 0.00209)
{
 z=672.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26730", 0.58980, 0.00274)
{
 z=665.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26361", 0.59025, 0.00274)
{
 z=655.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24271", 0.60710, 0.00215)
{
 z=645.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25988", 0.60472, 0.00278)
{
 z=641.4;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.50 (continued):

```
R_Combine("OxA-24277/OxA-24278")
{
 R_F14C("OxA-24277", 0.61575, 0.00225)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24278", 0.61364, 0.00227)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=623.7;
 Outlier(0.05);
 color="Blue";
};
R_Combine("OxA-24237/SUERC-23353")
{
 R_F14C("OxA-24237", 0.61497, 0.00238)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-23353", 0.60915, 0.00270)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=620.1;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-20475", 0.62263, 0.00289)
{
 z=604.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26360", 0.63091, 0.00293)
{
 z=590.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24194", 0.62192, 0.00216)
{
 z=584.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20474", 0.63484, 0.00278)
{
 z=567.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24321", 0.63724, 0.00239)
{
 z=560.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25985", 0.64463, 0.00297)
{
 z=549.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24300", 0.65197, 0.00244)
{
 z=537.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20473", 0.65985, 0.00305)
{
 z=524.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-28201", 0.66057, 0.00308)
{
 z=517.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24320", 0.67543, 0.00233)
{
 z=497.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26729", 0.66715, 0.00302)
{
 z=489.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24232", 0.69322, 0.00234)
{
 z=475.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-28200", 0.69249, 0.00323)
{
 z=468.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24308", 0.69141, 0.00258)
{
 z=452.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26359", 0.70926, 0.00328)
{
 z=440.4;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-X-2297-56/OxA-X-2303-36")
{
 R_F14C("OxA-X-2297-56",0.73321,0.00229)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2303-36",0.73374,0.00247)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=430.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23360", 0.73124, 0.00320)
{
 z=420.4;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.50 (continued):

```
R_Combine("OxA-24235/OxA-24236/
SUERC-20472")
{
 R_F14C("OxA-24235", 0.73934, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24236", 0.73356, 0.00235)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20472", 0.73260, 0.00338)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=405.9;
 Outlier(0.05);
 color="MediumOrchid";
};
R_Combine("OxA-24183/SUERC-13335")
{
 R_F14C("OxA-24183", 0.73408, 0.00258)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-13335", 0.73655, 0.00320)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=398.3;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-25984", 0.74074, 0.00340)
{
 z=391.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-X-2347-43", 0.75789, 0.00222)
{
 z=384.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26358", 0.75030, 0.00329)
{
 z=379.3;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24243/OxA-24244")
{
 R_F14C("OxA-24243", 0.76908, 0.00259)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24244", 0.76774, 0.00261)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=361.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25983", 0.75513, 0.00347)
{
 z=354.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26357", 0.77511, 0.00340)
{
 z=336.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24319", 0.78793, 0.00259)
{
 z=329.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20499", 0.78506, 0.00359)
{
 z=314.2;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24379/SUERC-26728")
{
 R_F14C("OxA-24379", 0.80482, 0.00238)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-26728", 0.80178, 0.00349)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=299.7;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-25982", 0.79832, 0.00366)
{
 z=291.3;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24299", 0.79942, 0.00284)
{
 z=283.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26356", 0.82602, 0.00363)
{
 z=261.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24266", 0.83539, 0.00269)
{
 z=255.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25981", 0.84597, 0.00369)
{
 z=244.3;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24233", 0.85582, 0.00236)
{
 z=226.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23361", 0.86932, 0.00379)
{
 z=215.0;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.50 (continued):

```
  R_F14C("OxA-24191", 0.89098, 0.00268)
  {
   z=204.3;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-20471", 0.91007, 0.00414)
  {
   z=176.6;
   Outlier(0.05);
   color="DeepPink";
  };
  Boundary("175m_EFD")
  {
   z=175.0;
   color="Gray";
  };
  R_F14C("SUERC-26355", 0.91722, 0.00402)
  {
   z=151.5;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-X-2270-49", 0.94715, 0.00293)
  {
   z=135.9;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-26727", 0.94469, 0.00412)
  {
   z=113.3;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24231", 0.93908, 0.00273)
  {
   z=107.9;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-25980", 0.95074, 0.00414)
  {
   z=103.1;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24276", 0.96829, 0.00294)
  {
   z=67.0;
   Outlier(0.05);
   color="Blue";
  };
  R_Combine("OxA-24328/SUERC-26724")
  {
   R_F14C("OxA-24328", 0.98812, 0.00333)
   {
    Outlier(0.05);
    color="Blue";
   };
   R_F14C("SUERC-26724", 0.98319, 0.00452)
   {
    Outlier(0.05);
    color="DeepPink";
   };
   z=42.0;
   Outlier(0.05);
   color="MediumOrchid";
  };

  Boundary("SG06_Core_Top", U(calBP(950),calBP(-50)))
  {
   z=35.0;
   color="Gray";
  };
 };
 Difference("Combined_Varve_Count_Top_to_IntCal09_TreeRing_Limit",
 "Combined_Varve_Count_Top", "IntCal09_TreeRing_Limit");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-7.51:

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 D_Sequence("SG06_to_1519.1cm")
 {
  Boundary("IntCal09_TreeRing_Limit")
  {
   z=2246;
   color="Gray";
  };
  Gap(38);
  R_F14C("OxA-24208", 0.27375, 0.00189)
  {
   z=2208;
   Outlier(0.05);
   color="Blue";
  };
  Gap(72);
  R_Combine("OxA-24223/SUERC-20502")
  {
   R_F14C("OxA-24223", 0.27080, 0.00147)
   {
    Outlier(0.05);
    color="Blue";
   };
   R_F14C("SUERC-20502", 0.27244, 0.00156)
   {
    Outlier(0.05);
    color="DeepPink";
   };
   z=2136;
   Outlier(0.05);
   color="MediumOrchid";
  };
  Gap(7);
  R_F14C("SUERC-23359", 0.27419, 0.00156)
  {
   z=2129;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(135);
  R_F14C("SUERC-17726", 0.28296, 0.00162)
  {
   z=1994;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(168);
  R_F14C("OxA-24273", 0.27643, 0.00143)
  {
   z=1826;
   Outlier(0.05);
   color="Blue";
  };
  Gap(39);
  R_F14C("OxA-24193", 0.27793, 0.00147)
  {
   z=1787;
   Outlier(0.05);
   color="Blue";
  };
  Gap(79);
  R_F14C("OxA-24433", 0.27917, 0.00146)
  {
   z=1708;
   Outlier(0.05);
   color="Blue";
  };
  Gap(75);
  R_F14C("OxA-24250", 0.28082, 0.00158)
  {
   z=1633;
   Outlier(0.05);
   color="Blue";
  };
Gap(12);
R_F14C("SUERC-29862", 0.27661, 0.00136)
{
 z=1621;
 Outlier(0.05);
 color="DeepPink";
};
Gap(38);
R_F14C("SUERC-18130", 0.28166, 0.00159)
{
 z=1583;
 Outlier(0.05);
 color="DeepPink";
};
Gap(40);
R_Combine("OxA-24448/OxA-24449")
{
 R_F14C("OxA-24448", 0.28675, 0.00177)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24449", 0.28597, 0.00176)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1543;
 Outlier(0.05);
 color="Blue";
};
Gap(37);
R_F14C("SUERC-29832", 0.28566, 0.00136)
{
 z=1506;
 Outlier(0.05);
 color="DeepPink";
};
Gap(36);
R_Combine("OxA-24292/SUERC-29831")
{
 R_F14C("OxA-24292", 0.28825, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29831", 0.28399, 0.00140)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1470;
 Outlier(0.05);
 color="MediumOrchid";
};
Gap(12);
R_F14C("SUERC-29830", 0.28372, 0.00137)
{
 z=1458;
 Outlier(0.05);
 color="DeepPink";
};
Gap(24);
R_F14C("SUERC-20491", 0.28748, 0.00161)
{
 z=1434;
 Outlier(0.05);
 color="DeepPink";
};
Gap(39);
Date("Holocene Base")
{
 z=1395;
 color="Green";
};
Gap(24);
R_F14C("OxA-24196", 0.28358, 0.00177)
{
 z=1371;
 Outlier(0.05);
 color="Blue";
};
Gap(1);
```

OCM-7.51 (continued):

```
R_F14C("SUERC-23746", 0.28606, 0.00265)
{
 z=1370;
 Outlier(0.05);
 color="DeepPink";
};
Gap(59);
R_F14C("OxA-24455", 0.29012, 0.00201)
{
 z=1311;
 Outlier(0.05);
 color="Blue";
};
Gap(40);
R_Combine("OxA-24200/SUERC-29521")
{
 R_F14C("OxA-24200", 0.28511, 0.00197)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-29521", 0.28464, 0.00147)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1271;
 Outlier(0.05);
 color="MediumOrchid";
};
Gap(211);
R_Combine("OxA-24446/OxA-24447")
{
 R_F14C("OxA-24446", 0.29215, 0.00181)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24447", 0.29260, 0.00180)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1060;
 Outlier(0.05);
 color="Blue";
};
Gap(66);
R_F14C("SUERC-17115", 0.29463, 0.00183)
{
 z=994;
 Outlier(0.05);
 color="DeepPink";
};
Gap(6);
R_F14C("SUERC-17717", 0.29691, 0.00162)
{
 z=988;
 Outlier(0.05);
 color="DeepPink";
};
Gap(116);
R_Combine("OxA-24431/OxA-24432/
SUERC-20490")
{
 R_F14C("OxA-24431", 0.30000, 0.00149)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24432", 0.29976, 0.00145)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20490", 0.30111, 0.00156)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=872;
 Outlier(0.05);
 color="MediumOrchid";
};
Gap(49);
R_F14C("OxA-24445", 0.30443, 0.00173)
{
 z=823;
 Outlier(0.05);
 color="Blue";
};
Gap(62);
R_F14C("SUERC-29520", 0.30270, 0.00144)
{
 z=761;
 Outlier(0.05);
 color="DeepPink";
};
Gap(69);
R_F14C("SUERC-29519", 0.29896, 0.00142)
{
 z=692;
 Outlier(0.05);
 color="DeepPink";
};
Gap(35);
R_F14C("OxA-24310", 0.30277, 0.00163)
{
 z=657;
 Outlier(0.05);
 color="Blue";
};
Gap(61);
R_F14C("SUERC-17721", 0.30457, 0.00191)
{
 z=596;
 Outlier(0.05);
 color="DeepPink";
};
Gap(30);
R_F14C("SUERC-20489", 0.30461, 0.00164)
{
 z=566;
 Outlier(0.05);
 color="DeepPink";
};
Gap(66);
```

OCM-7.51 (continued):

```
R_F14C("OxA-24367", 0.30468, 0.00148)
{
 z=500;
 Outlier(0.05);
 color="Blue";
};
Gap(92);
R_F14C("SUERC-29518", 0.30799, 0.00142)
{
 z=408;
 Outlier(0.05);
 color="DeepPink";
};
Gap(60);
R_F14C("SUERC-17120", 0.30868, 0.00174)
{
 z=348;
 Outlier(0.05);
 color="DeepPink";
};
Gap(111);
R_F14C("OxA-24207", 0.31677, 0.00206)
{
 z=237;
 Outlier(0.05);
 color="Blue";
};
Gap(32);
R_F14C("SUERC-29517", 0.31287, 0.00162)
{
 z=205;
 Outlier(0.05);
 color="DeepPink";
};
Gap(77);
R_F14C("SUERC-29516", 0.31475, 0.00145)
{
 z=128;
 Outlier(0.05);
 color="DeepPink";
};
Gap(72);
R_F14C("OxA-24239", 0.32066, 0.00161)
{
 z=56;
 Outlier(0.05);
 color="Blue";
};
Gap(3);
R_F14C("OxA-24187", 0.31970, 0.00153)
{
 z=53;
 Outlier(0.05);
 color="Blue";
};
Gap(46);
R_F14C("SUERC-26732", 0.32519, 0.00157)
{
 z=7;
 Outlier(0.05);
 color="DeepPink";
};
Gap(7);
Date("U-Oki Tephra")
{
 z=0;
 color="Gray";
};
Gap(118);
R_F14C("OxA-24391", 0.33131, 0.00189)
{
 z=-118;
 Outlier(0.05);
 color="Blue";
};
Gap(133);
R_F14C("OxA-24291", 0.32836, 0.00174)
{
 z=-251;
 Outlier(0.05);
 color="Blue";
};
 Gap(7);
 R_F14C("SUERC-29513", 0.32814, 0.00157)
 {
  z=-258;
  Outlier(0.05);
  color="DeepPink";
 };
 Gap(5);
 R_F14C("OxA-24440", 0.33147, 0.00195)
 {
  z=-263;
  Outlier(0.05);
  color="Blue";
 };
 Gap(91);
 Boundary("Combined_Varve_Count_Top")
 {
  z=-354;
  color="Gray";
 };
};
P_Sequence("SG06_to_1250cm", 6.33)
{
 Boundary("=Combined_Varve_Count_Top")
 {
  z=1227.2;
  color="Gray";
 };
 R_F14C("SUERC-17118", 0.33643, 0.00180)
 {
  z=1211.9;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-24309", 0.33251, 0.00171)
 {
  z=1211.3;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-25995", 0.33335, 0.00158)
 {
  z=1207.1;
  Outlier(0.05);
  color="DeepPink";
 };
 R_F14C("OxA-24329", 0.33547, 0.00194)
 {
  z=1203.0;
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24425", 0.34438, 0.00172)
 {
  z=1185.6;
  Outlier(0.05);
  color="Blue";
 };
 R_Combine("OxA-24420/SUERC-26366")
 {
  R_F14C("OxA-24420", 0.34973, 0.00165)
  {
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-26366", 0.35047, 0.00173)
  {
   Outlier(0.05);
   color="DeepPink";
  };
  z=1175.7;
  Outlier(0.05);
  color="MediumOrchid";
 };
 R_F14C("OxA-24192", 0.35310, 0.00161)
 {
  z=1158.5;
  Outlier(0.05);
  color="Blue";
 };
```

OCM-7.51 (continued):

```
R_F14C("OxA-24280", 0.35558, 0.00188)
{
 z=1142.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20486", 0.36218, 0.00172)
{
 z=1134.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24249", 0.36500, 0.00178)
{
 z=1121.3;
 Outlier(0.05);
color="Blue";
};
R_F14C("OxA-24288", 0.36568, 0.00157)
{
 z=1108.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24259", 0.36450, 0.00179)
{
 z=1099.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-18129", 0.38029, 0.00192)
{
 z=1081.3;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24424/SUERC-28229")
{
 R_F14C("OxA-24424", 0.38159, 0.00193)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28229", 0.37962, 0.00180)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=1075.6;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24369", 0.37987, 0.00167)
{
 z=1073.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-X-2297-53", 0.37506, 0.00193)
{
 z=1055.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20485", 0.39771, 0.00190)
{
 z=1054.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24246", 0.39928, 0.00178)
{
 z=1052.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20484", 0.39297, 0.00199)
{
 z=1042.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24287", 0.39309, 0.00169)
{
 z=1041.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24322", 0.40132, 0.00187)
{
 z=1035.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20482", 0.40079, 0.00203)
{
 z=1030.4;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24267/OxA-24268")
{
 R_F14C("OxA-24267", 0.40381, 0.00188)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24268", 0.40457, 0.00192)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=1024.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23358", 0.41217, 0.00245)
{
 z=1012.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24286", 0.40957, 0.00172)
{
 z=1010.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17725", 0.42092, 0.00205)
{
 z=1002.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24272", 0.41367, 0.00179)
{
 z=998.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25994", 0.42068, 0.00212)
{
 z=989.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20481", 0.43701, 0.00213)
{
 z=980.2;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.51 (continued):

```
R_Combine("OxA-24419/SUERC-28207")
{
 R_F14C("OxA-24419", 0.43810, 0.00184)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28207", 0.43349, 0.00252)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=972.5;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("OxA-24245", 0.44651, 0.00191)
{
 z=969.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26365", 0.44202, 0.00203)
{
 z=966.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-17117", 0.46626, 0.00218)
{
 z=952.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-X-2339-40", 0.47133, 0.00201)
{
 z=945.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25993", 0.46126, 0.00202)
{
 z=942.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24279", 0.46818, 0.00205)
{
 z=924.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20480", 0.47176, 0.00237)
{
 z=910.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26731", 0.48677, 0.00232)
{
 z=891.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24255", 0.49081, 0.00191)
{
 z=883.1;
 Outlier(0.05);
 color="Blue";
};
R_Combine("OxA-24181/OxA-24182/
SUERC-13332")
{
 R_F14C("OxA-24181", 0.50427, 0.00211)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24182", 0.50688, 0.00218)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-13332", 0.50647, 0.00220)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=862.9;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-23355", 0.51567, 0.00244)
{
 z=847.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24262", 0.51488, 0.00210)
{
 z=840.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26362", 0.52150, 0.00246)
{
 z=826.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-28228", 0.53342, 0.00252)
{
 z=806.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-20479", 0.53917, 0.00235)
{
 z=798.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25992", 0.53838, 0.00235)
{
 z=786.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24220", 0.54591, 0.00206)
{
 z=778.7;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-28206", 0.54454, 0.00255)
{
 z=766.1;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.51 (continued):

```
R_F14C("SUERC-28203", 0.56227, 0.00248)
{
 z=759.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25990", 0.55203, 0.00255)
{
 z=747.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24238", 0.56021, 0.00238)
{
 z=740.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-X-2360-44", 0.57631, 0.00229)
{
 z=734.8;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23354", 0.56442, 0.00264)
{
 z=724.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-25989", 0.57209, 0.00249)
{
 z=701.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24285", 0.57915, 0.00208)
{
 z=693.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24195", 0.59754, 0.00251)
{
 z=681.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20476", 0.59533, 0.00277)
{
 z=679.4;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24284", 0.59203, 0.00209)
{
 z=672.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26730", 0.58980, 0.00274)
{
 z=665.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26361", 0.59025, 0.00274)
{
 z=655.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24271", 0.60710, 0.00215)
{
 z=645.6;
 Outlier(0.05);
 color="Blue";
};
```

```
R_F14C("SUERC-25988", 0.60472, 0.00278)
{
 z=641.4;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24277/OxA-24278")
{
 R_F14C("OxA-24277", 0.61575, 0.00225)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24278", 0.61364, 0.00227)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=623.7;
 Outlier(0.05);
 color="Blue";
};
R_Combine("OxA-24237/SUERC-23353")
{
 R_F14C("OxA-24237", 0.61497, 0.00238)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-23353", 0.60915, 0.00270)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=620.1;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-20475", 0.62263, 0.00289)
{
 z=604.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26360", 0.63091, 0.00293)
{
 z=590.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24194", 0.62192, 0.00216)
{
 z=584.5;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20474", 0.63484, 0.00278)
{
 z=567.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24321", 0.63724, 0.00239)
{
 z=560.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25985", 0.64463, 0.00297)
{
 z=549.8;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24300", 0.65197, 0.00244)
{
 z=537.4;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.51 (continued):

```
R_F14C("SUERC-20473", 0.65985, 0.00305)
{
 z=524.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-28201", 0.66057, 0.00308)
{
 z=517.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24320", 0.67543, 0.00233)
{
 z=497.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26729", 0.66715, 0.00302)
{
 z=489.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24232", 0.69322, 0.00234)
{
 z=475.2;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-28200", 0.69249, 0.00323)
{
 z=468.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24308", 0.69141, 0.00258)
{
 z=452.6;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26359", 0.70926, 0.00328)
{
 z=440.4;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-X-2297-56/OxA-X-2303-36")
{
 R_F14C("OxA-X-2297-56",0.73321,0.00229)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2303-36",0.73374,0.00247)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=430.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23360", 0.73124, 0.0032)
{
 z=420.4;
 Outlier(0.05);
 color="DeepPink";
};
```

```
R_Combine("OxA-24235/OxA-24236/
SUERC-20472")
{
 R_F14C("OxA-24235", 0.73934, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24236", 0.73356, 0.00235)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20472", 0.73260, 0.00338)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=405.9;
 Outlier(0.05);
 color="MediumOrchid";
};
R_Combine("OxA-24183/SUERC-13335")
{
 R_F14C("OxA-24183", 0.73408, 0.00258)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-13335", 0.73655, 0.00320)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=398.3;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-25984", 0.74074, 0.00340)
{
 z=391.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-X-2347-43", 0.75789, 0.00222)
{
 z=384.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26358", 0.75030, 0.00329)
{
 z=379.3;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24243/OxA-24244")
{
 R_F14C("OxA-24243", 0.76908, 0.00259)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24244", 0.76774, 0.00261)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=361.0;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.51 (continued):

```
R_F14C("SUERC-25983", 0.75513, 0.00347)
{
 z=354.7;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-26357", 0.77511, 0.00340)
{
 z=336.6;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24319", 0.78793, 0.00259)
{
 z=329.0;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20499", 0.78506, 0.00359)
{
 z=314.2;
 Outlier(0.05);
 color="DeepPink";
};
R_Combine("OxA-24379/SUERC-26728")
{
 R_F14C("OxA-24379", 0.80482, 0.00238)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-26728", 0.80178, 0.00349)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=299.7;
 Outlier(0.05);
 color="MediumOrchid";
};
R_F14C("SUERC-25982", 0.79832, 0.00366)
{
 z=291.3;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24299", 0.79942, 0.00284)
{
 z=283.1;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26356", 0.82602, 0.00363)
{
 z=261.9;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24266", 0.83539, 0.00269)
{
 z=255.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25981", 0.84597, 0.00369)
{
 z=244.3;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24233", 0.85582, 0.00236)
{
 z=226.4;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-23361", 0.86932, 0.00379)
{
 z=215.0;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24191", 0.89098, 0.00268)
{
 z=204.3;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-20471", 0.91007, 0.00414)
{
 z=176.6;
 Outlier(0.05);
  color="DeepPink";
};
Boundary("175m_EFD")
{
 z=175.0;
 color="Gray";
};
R_F14C("SUERC-26355", 0.91722, 0.00402)
{
 z=151.5;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-X-2270-49", 0.94715, 0.00293)
{
 z=135.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26727", 0.94469, 0.00412)
{
 z=113.3;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24231", 0.93908, 0.00273)
{
 z=107.9;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-25980", 0.95074, 0.00414)
{
 z=103.1;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("OxA-24276", 0.96829, 0.00294)
{
 z=67.0;
 Outlier(0.05);
 color="Blue";
};
R_Combine("OxA-24328/SUERC-26724")
{
 R_F14C("OxA-24328", 0.98812, 0.00333)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-26724", 0.98319, 0.00452)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=42.0;
 Outlier(0.05);
 color="MediumOrchid";
};
```

OCM-7.51 (continued):

```
  Boundary("SG06_Core_Top", U(calBP(950),calBP(-50)))
  {
   z=35.0;
   color="Gray";
  };
 };
 Difference("Combined_Varve_Count_Top_to_IntCal09_TreeRing_Limit",
 "Combined_Varve_Count_Top", "IntCal09_TreeRing_Limit");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-7.52:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 0.0744)`

OCM-7.53:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 0.744)`

OCM-7.54:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 1)`

OCM-7.55:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 2.5)`

OCM-7.56:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 5)`

OCM-7.57:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 6)`

OCM-7.58:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 7)`

OCM-7.59:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 8)`

OCM-7.60:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 9)`

OCM-7.61:

Same as OCM-7.50, but line 11 changed to:
`P_Sequence("SG06 Data", 10)`

OCM-7.62:

Same as OCM-7.50, but line 11 changed to:
```
P_Sequence("SG06 Data", 20)
```

OCM-7.63:

Same as OCM-7.50, but line 11 changed to:
```
P_Sequence("SG06 Data", 50)
```

OCM-7.64:

Same as OCM-7.50, but line 11 changed to:
```
P_Sequence("SG06 Data", 74.4)
```

OCM-7.65:

Same as OCM-7.50, but line 11 changed to:
```
P_Sequence("SG06 Data", 744)
```

OCM-7.66:

Same as OCM-7.50, but line 11 changed to:
```
U_Sequence("SG06 Data")
```

OCM-7.67:

Same as OCM-7.50, but additional 11 data points included:

```
Gap(38);
Gap(20);
R_F14C("SUERC-23750", 0.28407, 0.00271)
{
 z=1601;
 Outlier(0.05);
 color="DeepPink";
};
Gap(18);

Gap(59);
Gap(20);
R_F14C("OxA-24468", 0.28934, 0.00336)
{
 z=1350;
 Outlier(0.05);
 color="Blue";
};
Gap(39);

Gap(211);
Gap(122);
R_F14C("SUERC-19061", 0.42004, 0.00494)
{
 z=1149;
 Outlier(0.05);
 color="DeepPink";
};
Gap(89);

Gap(5);
R_Combine("OxA-24440/SUERC-28906")
{
 R_F14C("OxA-24440", 0.33147, 0.00195)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28906", 0.33732, 0.00191)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=-263;
 Outlier(0.05);
 color="MediumOrchid";
};
```

```
Gap(91);
Gap(19);
R_F14C("SUERC-16524", 0.34656, 0.00308)
{
 z=-282;
 Outlier(0.05);
 color="Blue";
};
Gap(72);

R_F14C("SUERC-27503", 0.35119, 0.00206)
{
 z=1153.9;
 Outlier(0.05);
 color="DeepPink";
};

R_Combine("OxA-24351/SUERC-28203")
{
 R_F14C("OxA-24351", 0.54687, 0.00240)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-28203", 0.56227, 0.00248)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=759.0;
 Outlier(0.05);
 color="MediumOrchid";
};

R_F14C("SUERC-28202", 0.55506, 0.00272)
{
 z=754.1;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-7.67 (continued):

```
R_Combine("OxA-24238/ OxA-X-2316-09")
{
 R_F14C("OxA-24238", 0.56021, 0.00238)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2316-09", 0.54105, 0.00943)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=740.1;
 Outlier(0.05);
 color="Blue";
};

R_Combine("OxA-24235/OxA-24236/
OxA-X-2316-07/SUERC-20472")
{
 R_F14C("OxA-24235", 0.73934, 0.00230)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24236", 0.73356, 0.00235)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2316-07", 0.66924, 0.01735)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("SUERC-20472", 0.73260, 0.00338)
 {
  Outlier(0.05);
  color="DeepPink";
 };
 z=405.9;
 Outlier(0.05);
 color="MediumOrchid";
};
```

```
R_Combine("OxA-24231/OxA-X-2248-48")
{
 R_F14C("OxA-24231", 0.93908, 0.00273)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-X-2248-48", 0.91309, 0.00274)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=107.9;
 Outlier(0.05);
 color="Blue";
};
```

OCM-7.68:

Same as OCM-7.35, but commences at 1250 cm CD. i.e.:

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 P_Sequence("SG06 All Data", 6.33)
 {
  Boundary("Combined_Varve_Count_Top")
  {
   z=1227.2;
   color="Gray";
  };
  R_F14C("SUERC-17118", 0.33643, 0.00180)
  {
   z=1211.9;
   Outlier(0.05);
   color="DeepPink";
  };
```

etc...

OCM-8.1

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 P_Sequence("SG06_All_Data", 7.44)
 {
  Boundary("20,200 SG06 vyr BP")
  {
   z=20200;
   color="Gray";
  };
  R_F14C("GrA-5660", 0.11491, 0.00349)
  {
   z=20197;
   color="DeepPink";
  };
  R_F14C("GrA-4570/GrA-8187",
  0.11833, 0.00133)
  {
   z=20147;
   color="Blue";
  };
  R_F14C("GrA-4569", 0.12123, 0.00282)
  {
   z=20092;
   color="Blue";
  };
  R_F14C("OxA-24331", 0.11683, 0.00133)
  {
   z=20049;
   color="Blue";
  };
  R_F14C("GrA-8155", 0.12120, 0.00120)
  {
   z=20047;
   color="Purple";
  };
  R_F14C("GrA-4586", 0.11847, 0.00253)
  {
   z=19919;
   color="DeepPink";
  };
  R_F14C("OxA-24372", 0.12306, 0.00116)
  {
   z=19852;
   color="Blue";
  };
  R_F14C("SUERC-26372", 0.12191, 0.00128)
  {
   z=19838;
   color="DeepPink";
  };
  R_F14C("GrA-8127", 0.11890, 0.00250)
  {
   z=19816;
   color="Purple";
  };
  R_F14C("GrA-4567", 0.11951, 0.00362)
  {
   z=19746;
   color="Purple";
  };
  R_F14C("OxA-24297", 0.12261, 0.00155)
  {
   z=19737;
   color="Purple";
  };
  R_F14C("GrA-5668b", 0.12506, 0.00280)
  {
   z=19678;
   color="DeepPink";
  };
  R_F14C("SUERC-27511", 0.12123, 0.00158)
  {
   z=19677;
   color="Purple";
  };
R_F14C("GrA-8115", 0.12600, 0.00420)
{
 z=19615;
 color="Purple";
};
R_Combine("OxA-24311/OxA-24312")
{
 R_F14C("OxA-24311", 0.12530, 0.00115)
 {
  color="Blue";
 };
 R_F14C("OxA-24312", 0.12713, 0.00112)
 {
  color="Blue";
 };
 z=19582;
 color="Blue";
};
R_F14C("GrA-5669", 0.12429, 0.00345)
{
 z=19561;
 color="Purple";
};
R_F14C("GrA-8122", 0.12540, 0.00326)
{
 z=19451;
 color="Blue";
};
R_F14C("SUERC-19063", 0.13630, 0.00233)
{
 z=19398;
 color="Purple";
};
R_F14C("GrA-4566", 0.13178, 0.00324)
{
 z=19393;
 color="Purple";
};
R_F14C("GrA-8123", 0.12510, 0.00199)
{
 z=19252;
 color="Blue";
};
R_F14C("OxA-24460", 0.12471, 0.00162)
{
 z=19186;
 color="DeepPink";
};
R_F14C("GrA-8118", 0.12710, 0.00200)
{
 z=19177;
 color="DeepPink";
};
R_F14C("GrA-8124", 0.13070, 0.00154)
{
 z=19101;
 color="Blue";
};
R_F14C("OxA-24295", 0.12998, 0.00124)
{
 z=19042;
 color="DeepPink";
};
R_F14C("GrA-4565", 0.13662, 0.00310)
{
 z=19008;
 color="Purple";
};
R_F14C("GrA-4564", 0.13790, 0.00401)
{
 z=18819;
 color="Blue";
};
R_F14C("OxA-24412", 0.13604, 0.01463)
{
 z=18733;
 color="Purple";
};
R_F14C("GrA-4562", 0.14173, 0.00321)
{
 z=18541;
 color="Purple";
};
```

OCM-8.1 (continued):

```
 R_F14C("OxA-24415", 0.13786, 0.00506)
 {
  z=18489;
  color="DeepPink";
 };
 R_F14C("GrA-8192", 0.13570, 0.00130)
 {
  z=18431;
  color="Blue";
 };
 R_F14C("OxA-24414", 0.14285, 0.00556)
 {
  z=18403;
  color="Blue";
 };
 R_F14C("GrA-8186", 0.13660, 0.00140)
 {
  z=18380;
  color="Blue";
 };
 R_F14C("OxA-24413", 0.15371, 0.01007)
 {
  z=18243;
  color="Blue";
 };
 R_F14C("GrA-8114", 0.13890, 0.00140)
 {
  z=18219;
  color="Purple";
 };
 R_F14C("GrA-5668a", 0.14112, 0.00257)
 {
  z=18164;
  color="Blue";
 };
 R_F14C("SUERC-28208", 0.14233, 0.00094)
 {
  z=18153;
  color="Purple";
 };
 R_F14C("GrA-5658", 0.14558, 0.00256)
 {
  z=18114;
  color="Purple";
 };
 R_F14C("GrA-4561", 0.14068, 0.00481)
 {
  z=18053;
  color="Purple";
 };
 R_F14C("OxA-24338", 0.14706, 0.00131)
 {
  z=18013;
  color="Blue";
 };
 R_F14C("GrA-8112", 0.14450, 0.00380)
 {
  z=17998;
  color="Blue";
 };
 R_F14C("GrA-8119", 0.14730, 0.00220)
 {
  z=17944;
  color="Purple";
 };
 R_F14C("GrA-4556b", 0.15215, 0.00354)
 {
  z=17890;
  color="Blue";
 };
 R_F14C("SUERC-17114", 0.15290, 0.00140)
 {
  z=17848;
  color="DeepPink";
 };
 R_F14C("GrA-8120", 0.15070, 0.00169)
 {
  z=17838;
  color="Blue";
 };
 R_F14C("SUERC-27510", 0.14926, 0.00137)
 {
  z=17804;
  color="Blue";
 };
 R_F14C("GrA-8111", 0.14930, 0.00150)
 {
  z=17787;
  color="Purple";
 };
 R_F14C("GrA-8116", 0.14990, 0.00280)
 {
  z=17741;
  color="Blue";
 };
 R_F14C("OxA-24247", 0.15286, 0.00120)
 {
  z=17735;
  color="Purple";
 };
 R_F14C("GrA-4559", 0.15726, 0.00386)
 {
  z=17691;
  color="Purple";
 };
 R_F14C("OxA-24214", 0.15626, 0.00148)
 {
  z=17654;
  color="Purple";
 };
 R_F14C("GrA-4558", 0.16183, 0.00121)
 {
  z=17642;
  color="Blue";
 };
 Boundary("17,600 SG06 vyr BP")
 {
  z=17600;
  color="Gray";
 };
};
```

```
Date("20,200 calBP", calBP(20200));
Date("17,600 calBP", calBP(17600));
Difference("Offset at 20,200 SG06 vyr BP", "20,200 SG06 vyr BP", "20,200 calBP");
Difference("Offset at 17,600 SG06 vyr BP", "17,600 SG06 vyr BP", "17,600 calBP");
Difference("2,600 SG06 vyr", "20,200 SG06 vyr BP", "17,600 SG06 vyr BP");
Curve("IntCal09")
{
 color="Lime";
};
Curve("IntCal04")
{
 color="ForestGreen";
};
Curve("Fairbanks0805")
{
 color="Gold";
};
```

OCM-8.1 (continued):

```
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-8.2

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 D_Sequence("SG06_All_Data")
 {
  Boundary("20,200 SG06 vyr BP")
  {
   z=20200;
   color="Gray";
  };
  Gap(3);
  R_F14C("GrA-5660", 0.11491, 0.00349)
  {
   z=20197;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(50);
  R_F14C("GrA-4570/GrA-8187",
  0.11833, 0.00133)
  {
   z=20147;
   Outlier(0.05);
   color="Blue";
  };
  Gap(55);
  R_F14C("GrA-4569", 0.12123, 0.00282)
  {
   z=20092;
   Outlier(0.05);
   color="Blue";
  };
  Gap(43);
  R_F14C("OxA-24331", 0.11683, 0.00133)
  {
   z=20049;
   Outlier(0.05);
   color="Blue";
  };
  Gap(2);
  R_F14C("GrA-8155", 0.12120, 0.00120)
  {
   z=20047;
   Outlier(0.05);
   color="Purple";
  };
  Gap(128);
  R_F14C("GrA-4586", 0.11847, 0.00253)
  {
   z=19919;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(67);
  R_F14C("OxA-24372", 0.12306, 0.00116)
  {
   z=19852;
   Outlier(0.05);
   color="Blue";
  };
Gap(14);
R_F14C("SUERC-26372", 0.12191, 0.00128)
{
 z=19838;
 Outlier(0.05);
 color="DeepPink";
};
Gap(22);
R_F14C("GrA-8127", 0.11890, 0.00250)
{
 z=19816;
 Outlier(0.05);
 color="Purple";
};
Gap(70);
R_F14C("GrA-4567", 0.11951, 0.00362)
{
 z=19746;
 Outlier(0.05);
 color="Purple";
};
Gap(9);
R_F14C("OxA-24297", 0.12261, 0.00155)
{
 z=19737;
 Outlier(0.05);
 color="Purple";
};
Gap(59);
R_F14C("GrA-5668b", 0.12506, 0.00280)
{
 z=19678;
 Outlier(0.05);
 color="DeepPink";
};
Gap(1);
R_F14C("SUERC-27511", 0.12123, 0.00158)
{
 z=19677;
 Outlier(0.05);
 color="Purple";
};
Gap(62);
R_F14C("GrA-8115", 0.12600, 0.00420)
{
 z=19615;
 Outlier(0.05);
 color="Purple";
};
Gap(33);
R_Combine("OxA-24311/OxA-24312")
{
 R_F14C("OxA-24311", 0.12530, 0.00115)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24312", 0.12713, 0.00112)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=19582;
 Outlier(0.05);
 color="Blue";
};
Gap(21);
```

OCM-8.2 (continued):

```
R_F14C("GrA-5669", 0.12429, 0.00345)
{
 z=19561;
 Outlier(0.05);
 color="Purple";
};
Gap(110);
R_F14C("GrA-8122", 0.12540, 0.00326)
{
 z=19451;
 Outlier(0.05);
 color="Blue";
};
Gap(53);
R_F14C("SUERC-19063", 0.13630, 0.00233)
{
 z=19398;
 Outlier(0.05);
 color="Purple";
};
Gap(5);
R_F14C("GrA-4566", 0.13178, 0.00324)
{
 z=19393;
 Outlier(0.05);
 color="Purple";
};
Gap(141);
R_F14C("GrA-8123", 0.12510, 0.00199)
{
 z=19252;
 Outlier(0.05);
 color="Blue";
};
Gap(66);
R_F14C("OxA-24460", 0.12471, 0.00162)
{
 z=19186;
 Outlier(0.05);
 color="DeepPink";
};
Gap(9);
R_F14C("GrA-8118", 0.12710, 0.00200)
{
 z=19177;
 Outlier(0.05);
 color="DeepPink";
};
Gap(76);
R_F14C("GrA-8124", 0.13070, 0.00154)
{
 z=19101;
 Outlier(0.05);
 color="Blue";
};
Gap(59);
R_F14C("OxA-24295", 0.12998, 0.00124)
{
 z=19042;
 Outlier(0.05);
 color="DeepPink";
};
Gap(34);
R_F14C("GrA-4565", 0.13662, 0.00310)
{
 z=19008;
 Outlier(0.05);
 color="Purple";
};
Gap(189);
R_F14C("GrA-4564", 0.13790, 0.00401)
{
 z=18819;
 Outlier(0.05);
 color="Blue";
};
Gap(86);
R_F14C("OxA-24412", 0.13604, 0.01463)
{
 z=18733;
 Outlier(0.05);
 color="Purple";
};
Gap(192);
R_F14C("GrA-4562", 0.14173, 0.00321)
{
 z=18541;
 Outlier(0.05);
 color="Purple";
};
Gap(52);
R_F14C("OxA-24415", 0.13786, 0.00506)
{
 z=18489;
 Outlier(0.05);
 color="DeepPink";
};
Gap(58);
R_F14C("GrA-8192", 0.13570, 0.00130)
{
 z=18431;
 Outlier(0.05);
 color="Blue";
};
Gap(28);
R_F14C("OxA-24414", 0.14285, 0.00556)
{
 z=18403;
 Outlier(0.05);
 color="Blue";
};
Gap(23);
R_F14C("GrA-8186", 0.13660, 0.00140)
{
 z=18380;
 Outlier(0.05);
 color="Blue";
};
Gap(137);
R_F14C("OxA-24413", 0.15371, 0.01007)
{
 z=18243;
 Outlier(0.05);
 color="Blue";
};
Gap(24);
R_F14C("GrA-8114", 0.13890, 0.00140)
{
 z=18219;
 Outlier(0.05);
 color="Purple";
};
Gap(55);
R_F14C("GrA-5668a", 0.14112, 0.00257)
{
 z=18164;
 Outlier(0.05);
 color="Blue";
};
Gap(11);
R_F14C("SUERC-28208", 0.14233, 0.00094)
{
 z=18153;
 Outlier(0.05);
 color="Purple";
};
Gap(39);
R_F14C("GrA-5658", 0.14558, 0.00256)
{
 z=18114;
 Outlier(0.05);
 color="Purple";
};
Gap(61);
R_F14C("GrA-4561", 0.14068, 0.00481)
{
 z=18053;
 Outlier(0.05);
 color="Purple";
};
Gap(40);
```

OCM-8.2 (continued):

```
  R_F14C("OxA-24338", 0.14706, 0.00131)
  {
   z=18013;
   Outlier(0.05);
   color="Blue";
  };
  Gap(15);
  R_F14C("GrA-8112", 0.14450, 0.00380)
  {
   z=17998;
   Outlier(0.05);
   color="Blue";
  };
  Gap(54);
  R_F14C("GrA-8119", 0.14730, 0.00220)
  {
   z=17944;
   Outlier(0.05);
   color="Purple";
  };
  Gap(54);
  R_F14C("GrA-4556b", 0.15215, 0.00354)
  {
   z=17890;
   Outlier(0.05);
   color="Blue";
  };
  Gap(42);
  R_F14C("SUERC-17114", 0.15290, 0.00140)
  {
   z=17848;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(10);
  R_F14C("GrA-8120", 0.15070, 0.00169)
  {
   z=17838;
   Outlier(0.05);
   color="Blue";
  };
  Gap(34);
  R_F14C("SUERC-27510", 0.14926, 0.00137)
  {
   z=17804;
   Outlier(0.05);
   color="Blue";
  };
  Gap(17);
  R_F14C("GrA-8111", 0.14930, 0.00150)
  {
   z=17787;
   Outlier(0.05);
   color="Purple";
  };
  Gap(46);
  R_F14C("GrA-8116", 0.14990, 0.00280)
  {
   z=17741;
   Outlier(0.05);
   color="Blue";
  };
  Gap(6);
  R_F14C("OxA-24247", 0.15286, 0.00120)
  {
   z=17735;
   Outlier(0.05);
   color="Purple";
  };
  Gap(44);
  R_F14C("GrA-4559", 0.15726, 0.00386)
  {
   z=17691;
   Outlier(0.05);
   color="Purple";
  };
  Gap(37);
  R_F14C("OxA-24214", 0.15626, 0.00148)
  {
   z=17654;
   Outlier(0.05);
   color="Purple";
  };
  Gap(12);
  R_F14C("GrA-4558", 0.16183, 0.00121)
  {
   z=17642;
   Outlier(0.05);
   color="Blue";
  };
  Gap(42);
  Boundary("17,600 SG06 vyr BP")
  {
   z=17600;
   color="Gray";
  };
 };

 Date("20,200 calBP",calBP(20200));
 Date("17,600 calBP",calBP(17600));
 Difference("Offset at 20,200 SG06 vyr BP", "20,200 SG06 vyr BP", "20,200 calBP");
 Difference("Offset at 17,600 SG06 vyr BP", "17,600 SG06 vyr BP", "17,600 calBP");
 Difference("2,600 SG06 vyr", "20,200 SG06 vyr BP", "17,600 SG06 vyr BP");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-8.3

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 P_Sequence("SG06_All_Data", 7.44)
 {
  Boundary("20,200 SG06 vyr BP")
  {
   z=20200;
   color="Gray";
  };
  R_F14C("GrA-5660", 0.11491, 0.00349)
  {
   z=20197;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("GrA-4570/GrA-8187",
  0.11833, 0.00133)
  {
   z=20147;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("GrA-4569", 0.12123, 0.00282)
  {
   z=20092;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24331", 0.11683, 0.00133)
  {
   z=20049;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("GrA-8155", 0.12120, 0.00120)
  {
   z=20047;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("GrA-4586", 0.11847, 0.00253)
  {
   z=19919;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24372", 0.12306, 0.00116)
  {
   z=19852;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-26372", 0.12191, 0.00128)
  {
   z=19838;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("GrA-8127", 0.11890, 0.00250)
  {
   z=19816;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("GrA-4567", 0.11951, 0.00362)
  {
   z=19746;
   Outlier(0.05);
   color="Purple";
  };
R_F14C("OxA-24297", 0.12261, 0.00155)
{
 z=19737;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-5668b", 0.12506, 0.00280)
{
 z=19678;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-27511", 0.12123, 0.00158)
{
 z=19677;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-8115", 0.12600, 0.00420)
{
 z=19615;
 Outlier(0.05);
 color="Purple";
};
R_Combine("OxA-24311/OxA-24312")
{
 R_F14C("OxA-24311", 0.12530, 0.00115)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24312", 0.12713, 0.00112)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=19582;
 Outlier(0.05);
 color="Blue";
};
R_F14C("GrA-5669", 0.12429, 0.00345)
{
 z=19561;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-8122", 0.12540, 0.00326)
{
 z=19451;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-19063", 0.13630, 0.00233)
{
 z=19398;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4566", 0.13178, 0.00324)
{
 z=19393;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-8123", 0.12510, 0.00199)
{
 z=19252;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24460", 0.12471, 0.00162)
{
 z=19186;
 Outlier(0.05);
 color="DeepPink";
};
```

OCM-8.3 (continued):

```
R_F14C("GrA-8118", 0.12710, 0.00200)
{
 z=19177;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("GrA-8124", 0.13070, 0.00154)
{
 z=19101;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24295", 0.12998, 0.00124)
{
 z=19042;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("GrA-4565", 0.13662, 0.00310)
{
 z=19008;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4564", 0.13790, 0.00401)
{
 z=18819;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24412", 0.13604, 0.01463)
{
 z=18733;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4562", 0.14173, 0.00321)
{
 z=18541;
 Outlier(0.05);
 color="Purple";
};
R_F14C("OxA-24415", 0.13786, 0.00506)
{
 z=18489;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("GrA-8192", 0.13570, 0.00130)
{
 z=18431;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24414", 0.14285, 0.00556)
{
 z=18403;
 Outlier(0.05);
 color="Blue";
};
R_F14C("GrA-8186", 0.13660, 0.00140)
{
 z=18380;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24413", 0.15371, 0.01007)
{
 z=18243;
 Outlier(0.05);
 color="Blue";
};
R_F14C("GrA-8114", 0.13890, 0.00140)
{
 z=18219;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-5668a", 0.14112, 0.00257)
{
 z=18164;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-28208", 0.14233, 0.00094)
{
 z=18153;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-5658", 0.14558, 0.00256)
{
 z=18114;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4561", 0.14068, 0.00481)
{
 z=18053;
 Outlier(0.05);
 color="Purple";
};
R_F14C("OxA-24338", 0.14706, 0.00131)
{
 z=18013;
 Outlier(0.05);
 color="Blue";
};
R_F14C("GrA-8112", 0.14450, 0.00380)
{
 z=17998;
 Outlier(0.05);
 color="Blue";
};
R_F14C("GrA-8119", 0.14730, 0.00220)
{
 z=17944;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4556b", 0.15215, 0.00354)
{
 z=17890;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17114", 0.15290, 0.00140)
{
 z=17848;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("GrA-8120", 0.15070, 0.00169)
{
 z=17838;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-27510", 0.14926, 0.00137)
{
 z=17804;
 Outlier(0.05);
 color="Blue";
};
R_F14C("GrA-8111", 0.14930, 0.00150)
{
 z=17787;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-8116", 0.14990, 0.00280)
{
 z=17741;
 Outlier(0.05);
 color="Blue";
};
```

OCM-8.3 (continued):

```
R_F14C("OxA-24247", 0.15286, 0.00120)
{
 z=17735;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4559", 0.15726, 0.00386)
{
 z=17691;
 Outlier(0.05);
 color="Purple";
};
R_F14C("OxA-24214", 0.15626, 0.00148)
{
 z=17654;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4558", 0.16183, 0.00121)
{
 z=17642;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-26001", 0.15946, 0.00133)
{
 z=17587;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("GrA-8113", 0.16180, 0.00230)
{
 z=17556;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4557", 0.16253, 0.00183)
{
 z=17514;
 Outlier(0.05);
 color="Purple";
};
R_F14C("OxA-24411", 0.16178, 0.00636)
{
 z=17486;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-8193", 0.15970, 0.00160)
{
 z=17461;
 Outlier(0.05);
 color="Purple";
};
R_F14C("OxA-24206", 0.16638, 0.00458)
{
 z=17357;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("GrA-4556a", 0.16052, 0.00120)
{
 z=17352;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("SUERC-23744", 0.15859, 0.00281)
{
 z=17212;
 Outlier(0.05);
 color="Blue";
};
R_F14C("GrA-8132", 0.16280, 0.00190)
{
 z=16965;
 Outlier(0.05);
 color="Purple";
};
```

```
R_F14C("SUERC-27507", 0.16400, 0.00151)
{
 z=16942;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4555", 0.16570, 0.00197)
{
 z=16882;
 Outlier(0.05);
 color="Purple";
};
R_F14C("SUERC-23752", 0.17544, 0.00375)
{
 z=16626;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-5652", 0.16872, 0.00179)
{
 z=16555;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-8133", 0.17160, 0.00250)
{
 z=16488;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4554", 0.17911, 0.00157)
{
 z=16422;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24475", 0.17761, 0.00367)
{
 z=16394;
 Outlier(0.05);
 color="Purple";
};
R_F14C("OxA-24269", 0.17804, 0.00120)
{
 z=16336;
 Outlier(0.05);
 color="Blue";
};
R_F14C("SUERC-17121", 0.18050, 0.00155)
{
 z=16335;
 Outlier(0.05);
 color="DeepPink";
};
R_F14C("GrA-4553", 0.17822, 0.00279)
{
 z=16229;
 Outlier(0.05);
 color="Blue";
};
R_F14C("GrA-5651", 0.17755, 0.00178)
{
 z=16170;
 Outlier(0.05);
 color="Blue";
};
R_F14C("OxA-24410", 0.18833, 0.00477)
{
 z=16114;
 Outlier(0.05);
 color="Purple";
};
R_F14C("GrA-4552/GrA-8128",
0.18334, 0.00105)
{
 z=16053;
 Outlier(0.05);
 color="Purple";
};
```

OCM-8.3 (continued):

```
  R_F14C("GrA-8134", 0.18370, 0.00160)
  {
   z=15993;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-26371", 0.18686, 0.00124)
  {
   z=15964;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("GrA-5636", 0.19566, 0.00270)
  {
   z=15933;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("OxA-24188", 0.18584, 0.00113)
  {
   z=15922;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-26000", 0.19026, 0.00124)
  {
   z=15798;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("GrA-5650/GrA-8130",
  0.18668, 0.00132)
  {
   z=15739;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("GrA-4551", 0.19786, 0.00198)
  {
   z=15690;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("OxA-24225", 0.19135, 0.00125)
  {
   z=15683;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("SUERC-28907", 0.19088, 0.00137)
  {
   z=15670;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("GrA-5649", 0.18895, 0.00392)
  {
   z=15642;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("SUERC-21174", 0.19399, 0.00380)
  {
   z=15561;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("GrA-4550", 0.18248, 0.00495)
  {
   z=15554;
   Outlier(0.05);
   color="DeepPink";
  };
  R_F14C("OxA-24330", 0.19149, 0.00167)
  {
   z=15397;
   Outlier(0.05);
   color="Blue";
  };
  R_F14C("OxA-24474", 0.20638, 0.00352)
  {
   z=15314;
   Outlier(0.05);
   color="Purple";
  };
  R_F14C("GrA-5648", 0.18766, 0.00714)
  {
   z=15306;
   Outlier(0.05);
   color="Purple";
  };
  Boundary("15,300 SG06 vyr BP")
  {
   z=15300;
   color="Gray";
  };
 };

 Date("20,200 calBP", calBP(20200));
 Date("15,300 calBP", calBP(15300));
 Difference("Offset at 20,200 SG06 vyr BP", "20,200 SG06 vyr BP", "20,200 calBP");
 Difference("Offset at 15,300 SG06 vyr BP", "15,300 SG06 vyr BP", "15,300 calBP");
 Difference("4,900 SG06 vyr", "20,200 SG06 vyr BP", "15,300 SG06 vyr BP");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

OCM-8.4

```
Options()
{
 BCAD=FALSE;
 Resolution=1;
 kIterations=30;
 Curve="IntCal09";
};
Plot()
{
 Outlier_Model("Default",T(5),U(0,4),"r");
 D_Sequence("SG06_All_Data")
 {
  Boundary("20,200 SG06 vyr BP")
  {
   z=20200;
   color="Gray";
  };
  Gap(3);
  R_F14C("GrA-5660", 0.11491, 0.00349)
  {
   z=20197;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(50);
  R_F14C("GrA-4570/GrA-8187",
  0.11833, 0.00133)
  {
   z=20147;
   Outlier(0.05);
   color="Blue";
  };
  Gap(55);
  R_F14C("GrA-4569", 0.12123, 0.00282)
  {
   z=20092;
   Outlier(0.05);
   color="Blue";
  };
  Gap(43);
  R_F14C("OxA-24331", 0.11683, 0.00133)
  {
   z=20049;
   Outlier(0.05);
   color="Blue";
  };
  Gap(2);
  R_F14C("GrA-8155", 0.12120, 0.00120)
  {
   z=20047;
   Outlier(0.05);
   color="Purple";
  };
  Gap(128);
  R_F14C("GrA-4586", 0.11847, 0.00253)
  {
   z=19919;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(67);
  R_F14C("OxA-24372", 0.12306, 0.00116)
  {
   z=19852;
   Outlier(0.05);
   color="Blue";
  };
  Gap(14);
  R_F14C("SUERC-26372", 0.12191, 0.00128)
  {
   z=19838;
   Outlier(0.05);
   color="DeepPink";
  };
  Gap(22);
  R_F14C("GrA-8127", 0.11890, 0.00250)
  {
   z=19816;
   Outlier(0.05);
   color="Purple";
  };
  Gap(70);
R_F14C("GrA-4567", 0.11951, 0.00362)
{
 z=19746;
 Outlier(0.05);
 color="Purple";
};
Gap(9);
R_F14C("OxA-24297", 0.12261, 0.00155)
{
 z=19737;
 Outlier(0.05);
 color="Purple";
};
Gap(59);
R_F14C("GrA-5668b", 0.12506, 0.00280)
{
 z=19678;
 Outlier(0.05);
 color="DeepPink";
};
Gap(1);
R_F14C("SUERC-27511", 0.12123, 0.00158)
{
 z=19677;
 Outlier(0.05);
 color="Purple";
};
Gap(62);
R_F14C("GrA-8115", 0.12600, 0.00420)
{
 z=19615;
 Outlier(0.05);
 color="Purple";
};
Gap(33);
R_Combine("OxA-24311/OxA-24312")
{
 R_F14C("OxA-24311", 0.12530, 0.00115)
 {
  Outlier(0.05);
  color="Blue";
 };
 R_F14C("OxA-24312", 0.12713, 0.00112)
 {
  Outlier(0.05);
  color="Blue";
 };
 z=19582;
 Outlier(0.05);
 color="Blue";
};
Gap(21);
R_F14C("GrA-5669", 0.12429, 0.00345)
{
 z=19561;
 Outlier(0.05);
 color="Purple";
};
Gap(110);
R_F14C("GrA-8122", 0.12540, 0.00326)
{
 z=19451;
 Outlier(0.05);
 color="Blue";
};
Gap(53);
R_F14C("SUERC-19063", 0.13630, 0.00233)
{
 z=19398;
 Outlier(0.05);
 color="Purple";
};
Gap(5);
R_F14C("GrA-4566", 0.13178, 0.00324)
{
 z=19393;
 Outlier(0.05);
 color="Purple";
};
Gap(141);
```

OCM-8.4 (continued):

```
R_F14C("GrA-8123", 0.12510, 0.00199)
{
 z=19252;
 Outlier(0.05);
 color="Blue";
};
Gap(66);
R_F14C("OxA-24460", 0.12471, 0.00162)
{
 z=19186;
 Outlier(0.05);
 color="DeepPink";
};
Gap(9);
R_F14C("GrA-8118", 0.12710, 0.00200)
{
 z=19177;
 Outlier(0.05);
 color="DeepPink";
};
Gap(76);
R_F14C("GrA-8124", 0.13070, 0.00154)
{
 z=19101;
 Outlier(0.05);
 color="Blue";
};
Gap(59);
R_F14C("OxA-24295", 0.12998, 0.00124)
{
 z=19042;
 Outlier(0.05);
 color="DeepPink";
};
Gap(34);
R_F14C("GrA-4565", 0.13662, 0.00310)
{
 z=19008;
 Outlier(0.05);
 color="Purple";
};
Gap(189);
R_F14C("GrA-4564", 0.13790, 0.00401)
{
 z=18819;
 Outlier(0.05);
 color="Blue";
};
Gap(86);
R_F14C("OxA-24412", 0.13604, 0.01463)
{
 z=18733;
 Outlier(0.05);
 color="Purple";
};
Gap(192);
R_F14C("GrA-4562", 0.14173, 0.00321)
{
 z=18541;
 Outlier(0.05);
 color="Purple";
};
Gap(52);
R_F14C("OxA-24415", 0.13786, 0.00506)
{
 z=18489;
 Outlier(0.05);
 color="DeepPink";
};
Gap(58);
R_F14C("GrA-8192", 0.13570, 0.00130)
{
 z=18431;
 Outlier(0.05);
 color="Blue";
};
Gap(28);
R_F14C("OxA-24414", 0.14285, 0.00556)
{
 z=18403;
 Outlier(0.05);
 color="Blue";
};
Gap(23);
R_F14C("GrA-8186", 0.13660, 0.00140)
{
 z=18380;
 Outlier(0.05);
 color="Blue";
};
Gap(137);
R_F14C("OxA-24413", 0.15371, 0.01007)
{
 z=18243;
 Outlier(0.05);
 color="Blue";
};
Gap(24);
R_F14C("GrA-8114", 0.13890, 0.00140)
{
 z=18219;
 Outlier(0.05);
 color="Purple";
};
Gap(55);
R_F14C("GrA-5668a", 0.14112, 0.00257)
{
 z=18164;
 Outlier(0.05);
 color="Blue";
};
Gap(11);
R_F14C("SUERC-28208", 0.14233, 0.00094)
{
 z=18153;
 Outlier(0.05);
 color="Purple";
};
Gap(39);
R_F14C("GrA-5658", 0.14558, 0.00256)
{
 z=18114;
 Outlier(0.05);
 color="Purple";
};
Gap(61);
R_F14C("GrA-4561", 0.14068, 0.00481)
{
 z=18053;
 Outlier(0.05);
 color="Purple";
};
Gap(40);
R_F14C("OxA-24338", 0.14706, 0.00131)
{
 z=18013;
 Outlier(0.05);
 color="Blue";
};
Gap(15);
R_F14C("GrA-8112", 0.14450, 0.00380)
{
 z=17998;
 Outlier(0.05);
 color="Blue";
};
Gap(54);
R_F14C("GrA-8119", 0.14730, 0.00220)
{
 z=17944;
 Outlier(0.05);
 color="Purple";
};
Gap(54);
R_F14C("GrA-4556b", 0.15215, 0.00354)
{
 z=17890;
 Outlier(0.05);
 color="Blue";
};
```

OCM-8.4 (continued):

```
Gap(42);
R_F14C("SUERC-17114", 0.15290, 0.00140)
{
 z=17848;
 Outlier(0.05);
 color="DeepPink";
};
Gap(10);
R_F14C("GrA-8120", 0.15070, 0.00169)
{
 z=17838;
 Outlier(0.05);
 color="Blue";
};
Gap(34);
R_F14C("SUERC-27510", 0.14926, 0.00137)
{
 z=17804;
 Outlier(0.05);
 color="Blue";
};
Gap(17);
R_F14C("GrA-8111", 0.14930, 0.00150)
{
 z=17787;
 Outlier(0.05);
 color="Purple";
};
Gap(46);
R_F14C("GrA-8116", 0.14990, 0.00280)
{
 z=17741;
 Outlier(0.05);
 color="Blue";
};
Gap(6);
R_F14C("OxA-24247", 0.15286, 0.00120)
{
 z=17735;
 Outlier(0.05);
 color="Purple";
};
Gap(44);
R_F14C("GrA-4559", 0.15726, 0.00386)
{
 z=17691;
 Outlier(0.05);
 color="Purple";
};
Gap(37);
R_F14C("OxA-24214", 0.15626, 0.00148)
{
 z=17654;
 Outlier(0.05);
 color="Purple";
};
Gap(12);
R_F14C("GrA-4558", 0.16183, 0.00121)
{
 z=17642;
 Outlier(0.05);
 color="Blue";
};
Gap(55);
R_F14C("SUERC-26001", 0.15946, 0.00133)
{
 z=17587;
 Outlier(0.05);
 color="DeepPink";
};
Gap(31);
R_F14C("GrA-8113", 0.16180, 0.00230)
{
 z=17556;
 Outlier(0.05);
 color="Purple";
};
Gap(42);
R_F14C("GrA-4557", 0.16253, 0.00183)
{
 z=17514;
 Outlier(0.05);
 color="Purple";
};
Gap(28);
R_F14C("OxA-24411", 0.16178, 0.00636)
{
 z=17486;
 Outlier(0.05);
 color="Purple";
};
Gap(25);
R_F14C("GrA-8193", 0.15970, 0.00160)
{
 z=17461;
 Outlier(0.05);
 color="Purple";
};
Gap(104);
R_F14C("OxA-24206", 0.16638, 0.00458)
{
 z=17357;
 Outlier(0.05);
 color="DeepPink";
};
Gap(5);
R_F14C("GrA-4556a", 0.16052, 0.00120)
{
 z=17352;
 Outlier(0.05);
 color="DeepPink";
};
Gap(140);
R_F14C("SUERC-23744", 0.15859, 0.00281)
{
 z=17212;
 Outlier(0.05);
 color="Blue";
};
Gap(247);
R_F14C("GrA-8132", 0.16280, 0.00190)
{
 z=16965;
 Outlier(0.05);
 color="Purple";
};
Gap(23);
R_F14C("SUERC-27507", 0.16400, 0.00151)
{
 z=16942;
 Outlier(0.05);
 color="Purple";
};
Gap(60);
R_F14C("GrA-4555", 0.16570, 0.00197)
{
 z=16882;
 Outlier(0.05);
 color="Purple";
};
Gap(256);
R_F14C("SUERC-23752", 0.17544, 0.00375)
{
 z=16626;
 Outlier(0.05);
 color="Purple";
};
Gap(71);
R_F14C("GrA-5652", 0.16872, 0.00179)
{
 z=16555;
 Outlier(0.05);
 color="Purple";
};
Gap(67);
R_F14C("GrA-8133", 0.17160, 0.00250)
{
 z=16488;
 Outlier(0.05);
 color="Purple";
};
```

OCM-8.4 (continued):

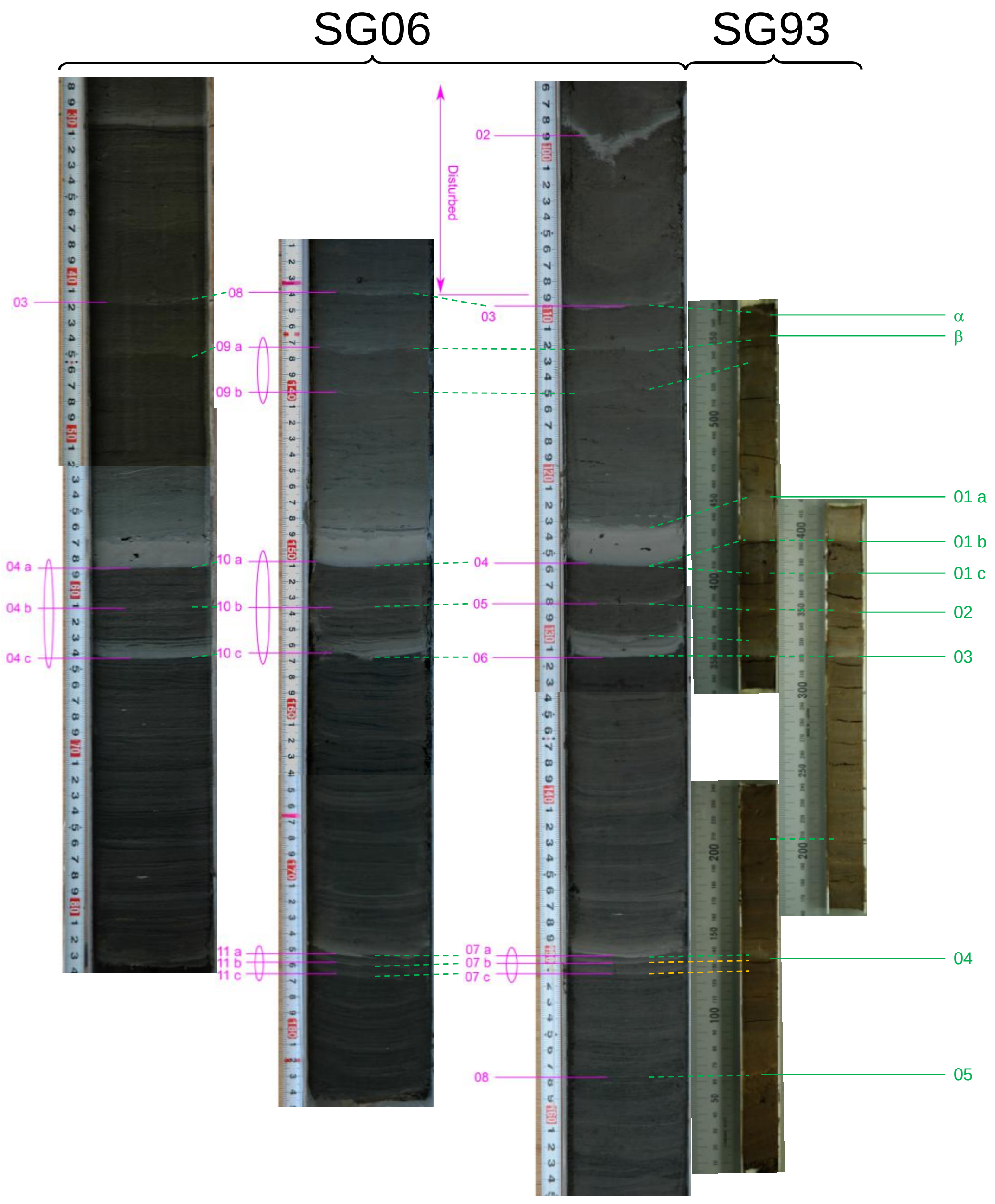
```
Gap(66);
R_F14C("GrA-4554", 0.17911, 0.00157)
{
 z=16422;
 Outlier(0.05);
 color="Blue";
};
Gap(28);
R_F14C("OxA-24475", 0.17761, 0.00367)
{
 z=16394;
 Outlier(0.05);
 color="Purple";
};
Gap(58);
R_F14C("OxA-24269", 0.17804, 0.00120)
{
 z=16336;
 Outlier(0.05);
 color="Blue";
};
Gap(1);
R_F14C("SUERC-17121", 0.18050, 0.00155)
{
 z=16335;
 Outlier(0.05);
 color="DeepPink";
};
Gap(106);
R_F14C("GrA-4553", 0.17822, 0.00279)
{
 z=16229;
 Outlier(0.05);
 color="Blue";
};
Gap(59);
R_F14C("GrA-5651", 0.17755, 0.00178)
{
 z=16170;
 Outlier(0.05);
 color="Blue";
};
Gap(56);
R_F14C("OxA-24410", 0.18833, 0.00477)
{
 z=16114;
 Outlier(0.05);
 color="Purple";
};
Gap(61);
R_F14C("GrA-4552/GrA-8128",
0.18334, 0.00105)
{
 z=16053;
 Outlier(0.05);
 color="Purple";
};
Gap(60);
R_F14C("GrA-8134", 0.18370, 0.00160)
{
 z=15993;
 Outlier(0.05);
 color="Blue";
};
Gap(29);
R_F14C("SUERC-26371", 0.18686, 0.00124)
{
 z=15964;
 Outlier(0.05);
 color="Purple";
};
Gap(31);
R_F14C("GrA-5636", 0.19566, 0.00270)
{
 z=15933;
 Outlier(0.05);
 color="Purple";
};
Gap(11);
R_F14C("OxA-24188", 0.18584, 0.00113)
{
 z=15922;
 Outlier(0.05);
 color="Blue";
};
Gap(124);
R_F14C("SUERC-26000", 0.19026, 0.00124)
{
 z=15798;
 Outlier(0.05);
 color="Purple";
};
Gap(59);
R_F14C("GrA-5650/GrA-8130",
0.18668, 0.00132)
{
 z=15739;
 Outlier(0.05);
 color="DeepPink";
};
Gap(49);
R_F14C("GrA-4551", 0.19786, 0.00198)
{
 z=15690;
 Outlier(0.05);
 color="Purple";
};
Gap(7);
R_F14C("OxA-24225", 0.19135, 0.00125)
{
 z=15683;
 Outlier(0.05);
 color="Blue";
};
Gap(13);
R_F14C("SUERC-28907", 0.19088, 0.00137)
{
 z=15670;
 Outlier(0.05);
 color="Purple";
};
Gap(28);
R_F14C("GrA-5649", 0.18895, 0.00392)
{
 z=15642;
 Outlier(0.05);
 color="DeepPink";
};
Gap(81);
R_F14C("SUERC-21174", 0.19399, 0.00380)
{
 z=15561;
 Outlier(0.05);
 color="Purple";
};
Gap(7);
R_F14C("GrA-4550", 0.18248, 0.00495)
{
 z=15554;
 Outlier(0.05);
 color="DeepPink";
};
Gap(157);
R_F14C("OxA-24330", 0.19149, 0.00167)
{
 z=15397;
 Outlier(0.05);
 color="Blue";
};
Gap(83);
R_F14C("OxA-24474", 0.20638, 0.00352)
{
 z=15314;
 Outlier(0.05);
 color="Purple";
};
Gap(8);
```

OCM-8.4 (continued):

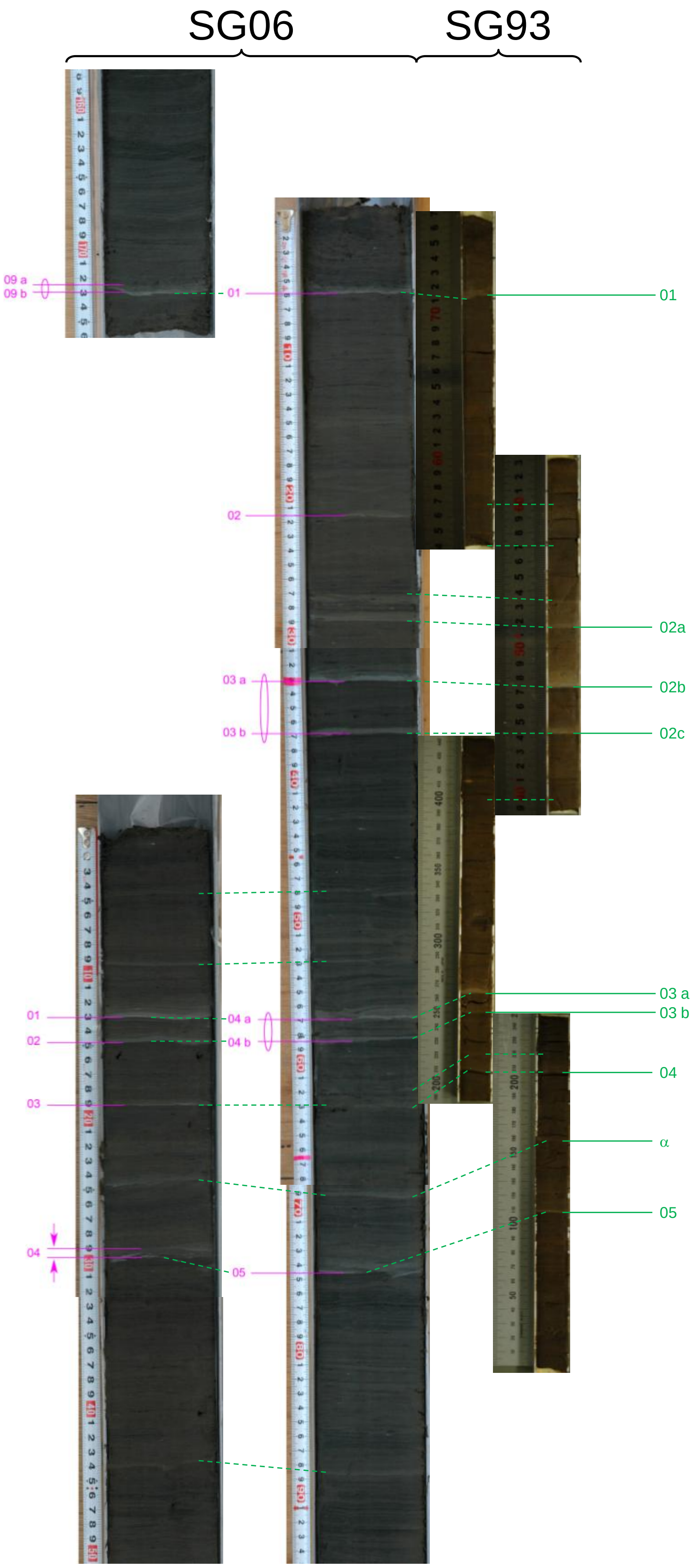
```
  R_F14C("GrA-5648", 0.18766, 0.00714)
  {
   z=15306;
   Outlier(0.05);
   color="Purple";
  };
  Gap(6);
  Boundary("15,300 SG06 vyr BP")
  {
   z=15300;
   color="Gray";
  };
 };
 Date("20,200 calBP",calBP(20200));
 Date("15,300 calBP",calBP(15300));
 Difference("Offset at 20,200 SG06 vyr BP", "20,200 SG06 vyr BP", "20,200 calBP");
 Difference("Offset at 15,300 SG06 vyr BP", "15,300 SG06 vyr BP", "15,300 calBP");
 Difference("4,900 SG06 vyr", "20,200 SG06 vyr BP", "15,300 SG06 vyr BP");
 Curve("IntCal09")
 {
  color="Lime";
 };
 Curve("IntCal04")
 {
  color="ForestGreen";
 };
 Curve("Fairbanks0805")
 {
  color="Gold";
 };
 Curve("Hughen2006")
 {
  color="SkyBlue";
 };
 Curve("Suigetsu2000")
 {
  color="Red";
 };
};
```

Appendix 9: Physical matching of the archive SG93 U-channel material against the composite SG06 sediment profile. Firm linkages are illustrated in green, more questionable linkages in amber, and tephra layers in red. (The turquoise lines reflect disturbance of the retrieved SG06 core segments.) Numbered laminae from SG93 are those identified in the original stratigraphic description of H. Kitagawa (personal communication).

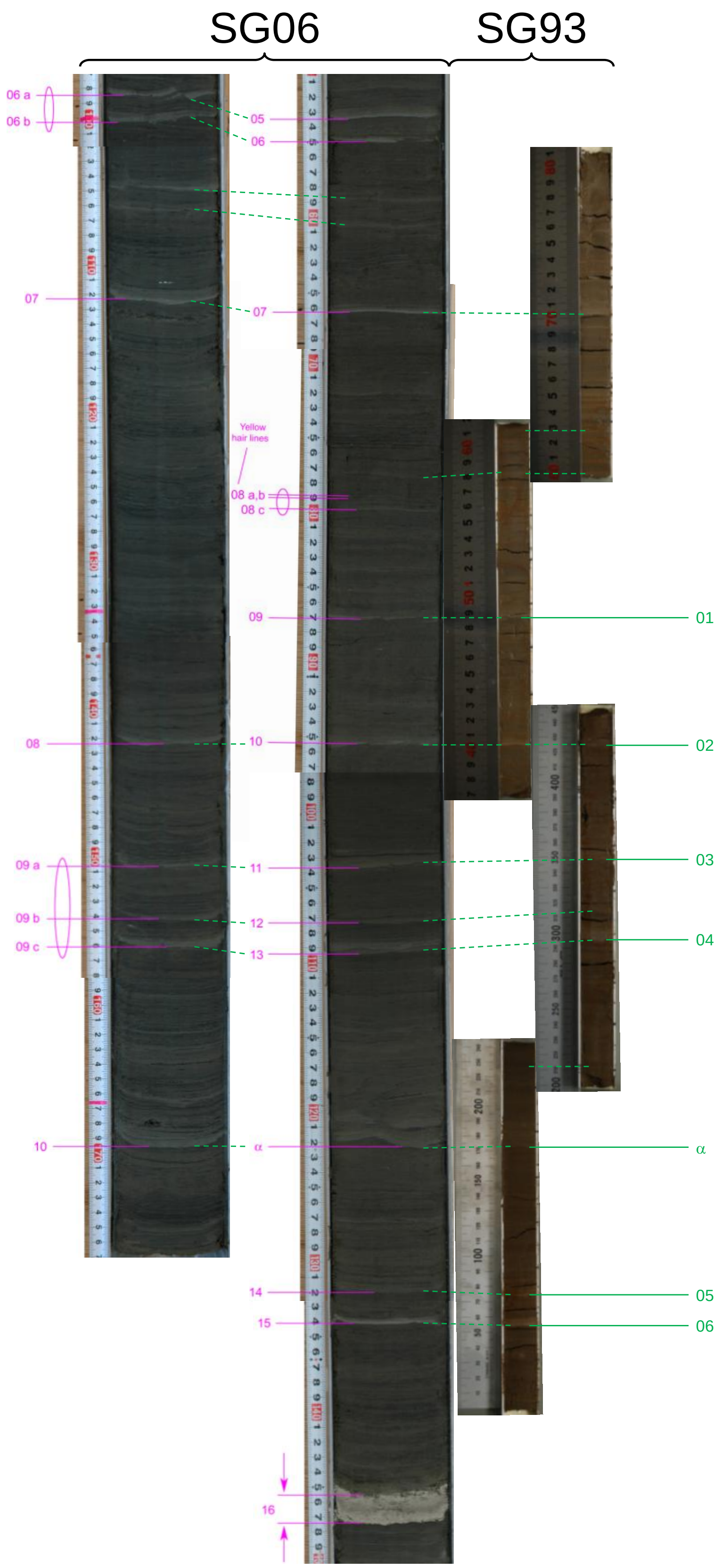
(a): SG93 core section SG12 (right), as compared to SG06 core sections C-08 (left), B-05 (left of centre), and A-06 (right of centre).



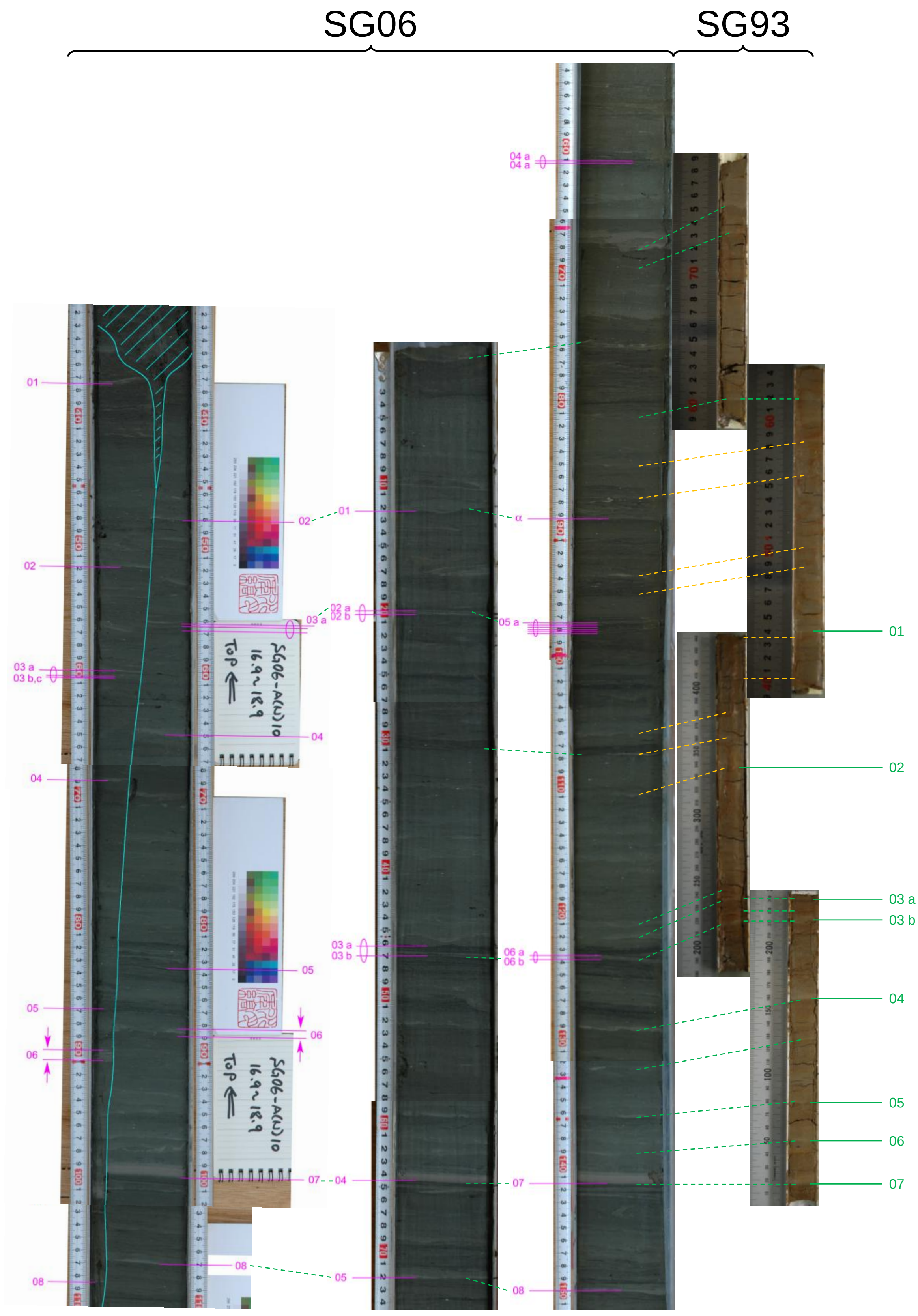
Appendix 9 (b): SG93 core section SG13 (right), as compared to SG06 core sections A-06 and A-07 (left), and B-06 (centre).



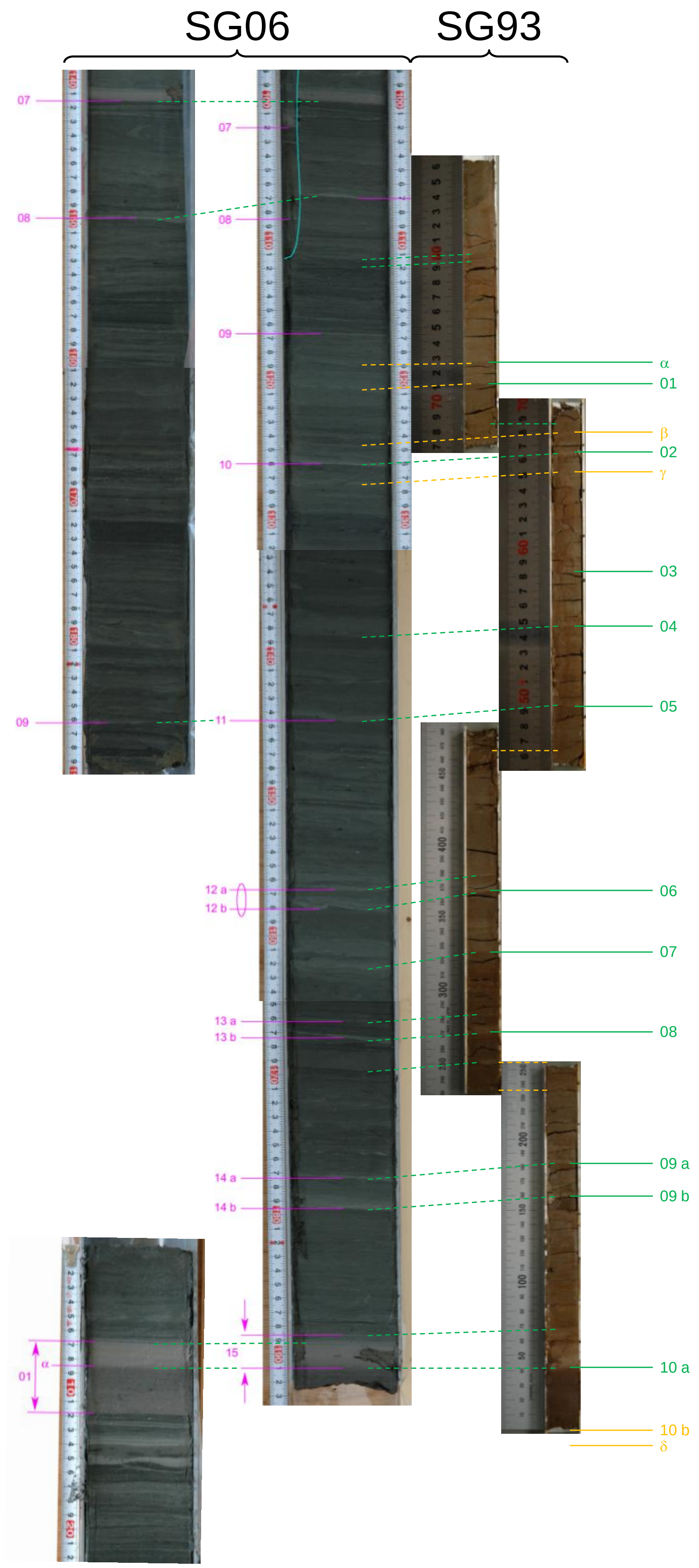
Appendix 9 (c): SG93 core section SG14 (right), as compared to SG06 core sections B-06 (left), and A-07 (centre).



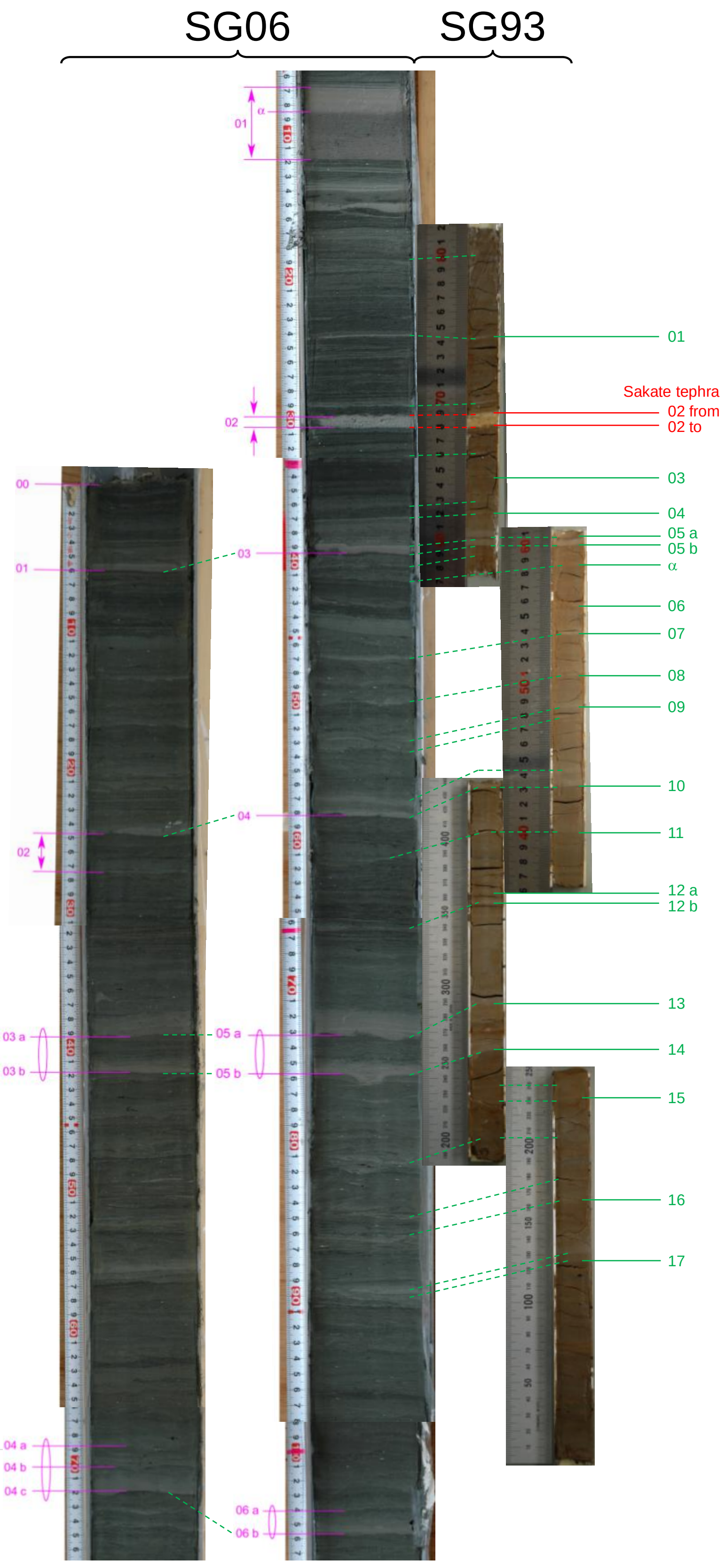
Appendix 9 (d): SG93 core section SG20 (right), as compared to SG06 core sections A-10 (left), C-09 (left of centre), and B-09 (right of centre).



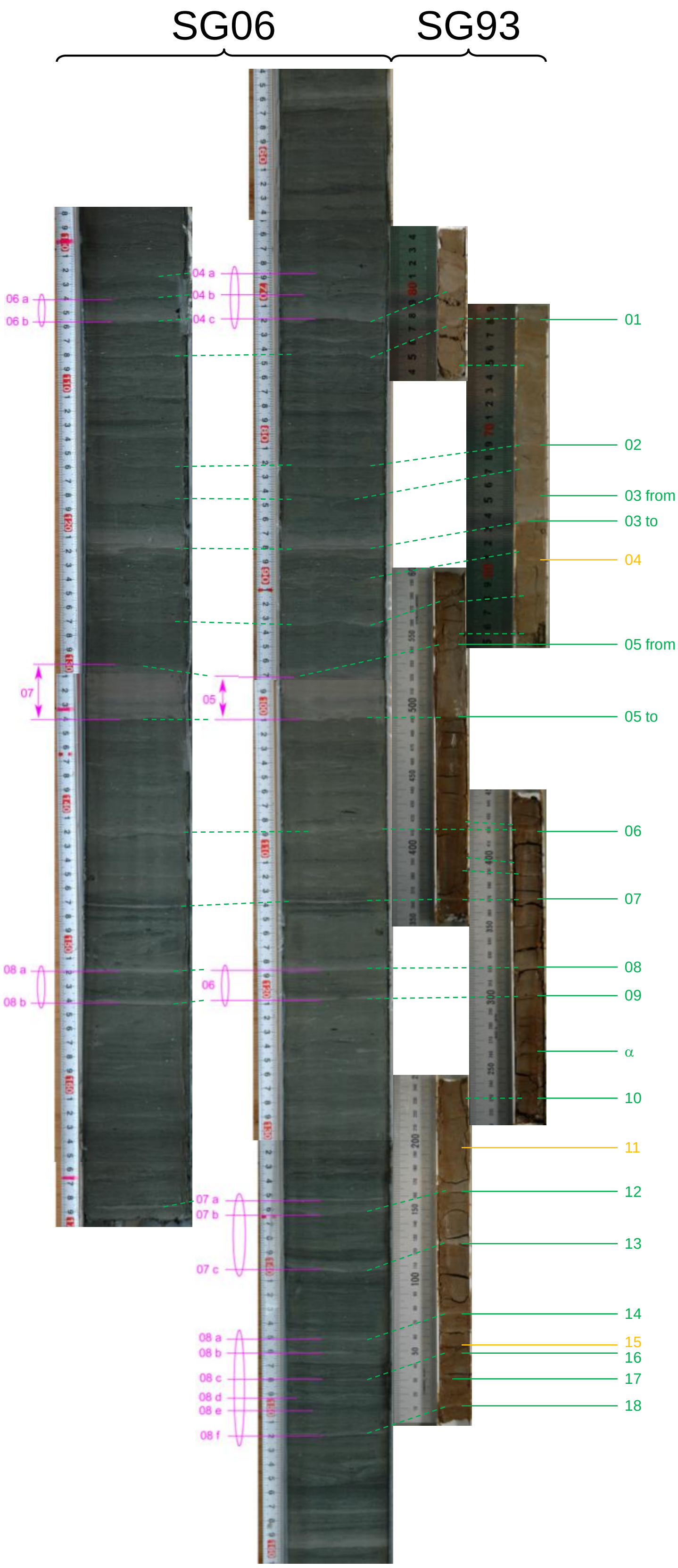
Appendix 9 (e): SG93 core section SG21 (right), as compared to SG06 core sections B-09 and B-10 (left), and A-10 (centre).



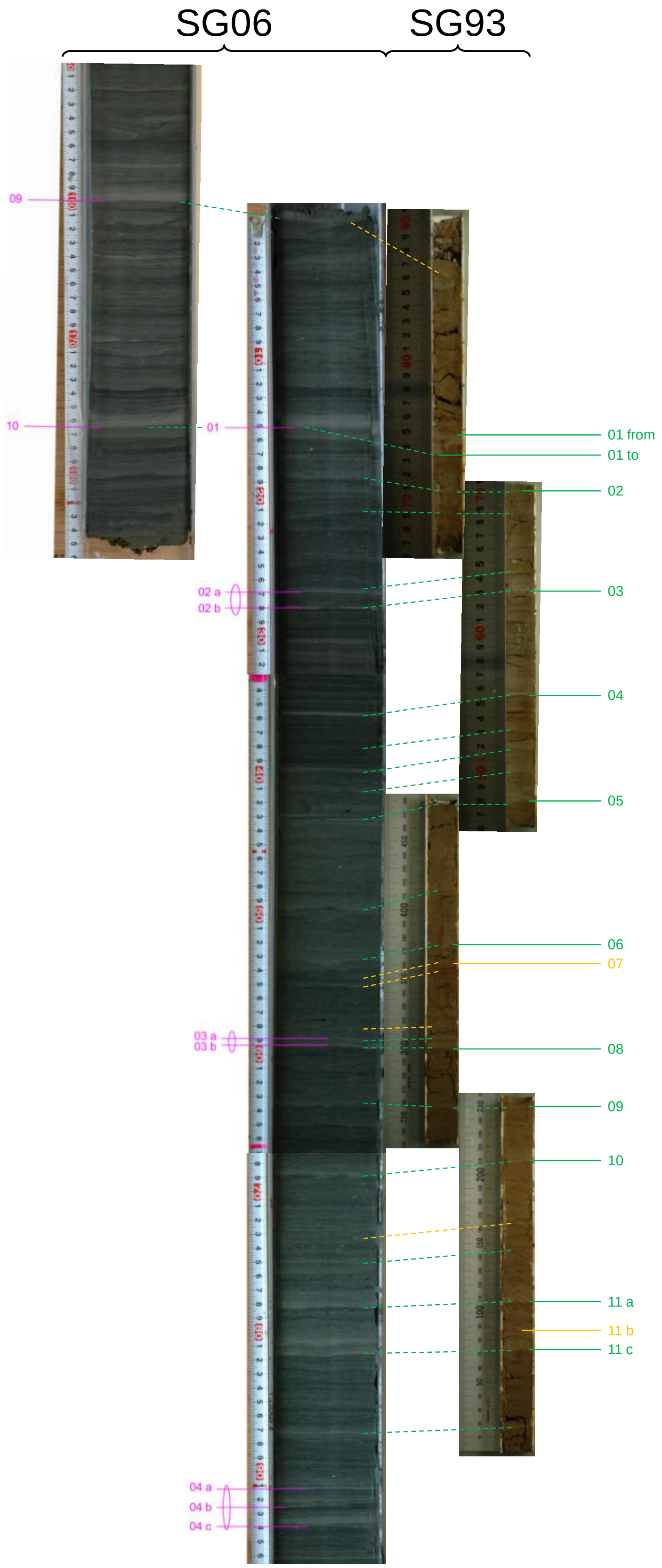
Appendix 9 (f): SG93 core section SG22 (right), as compared to SG06 core sections A-11 (left), and B-10 (centre).



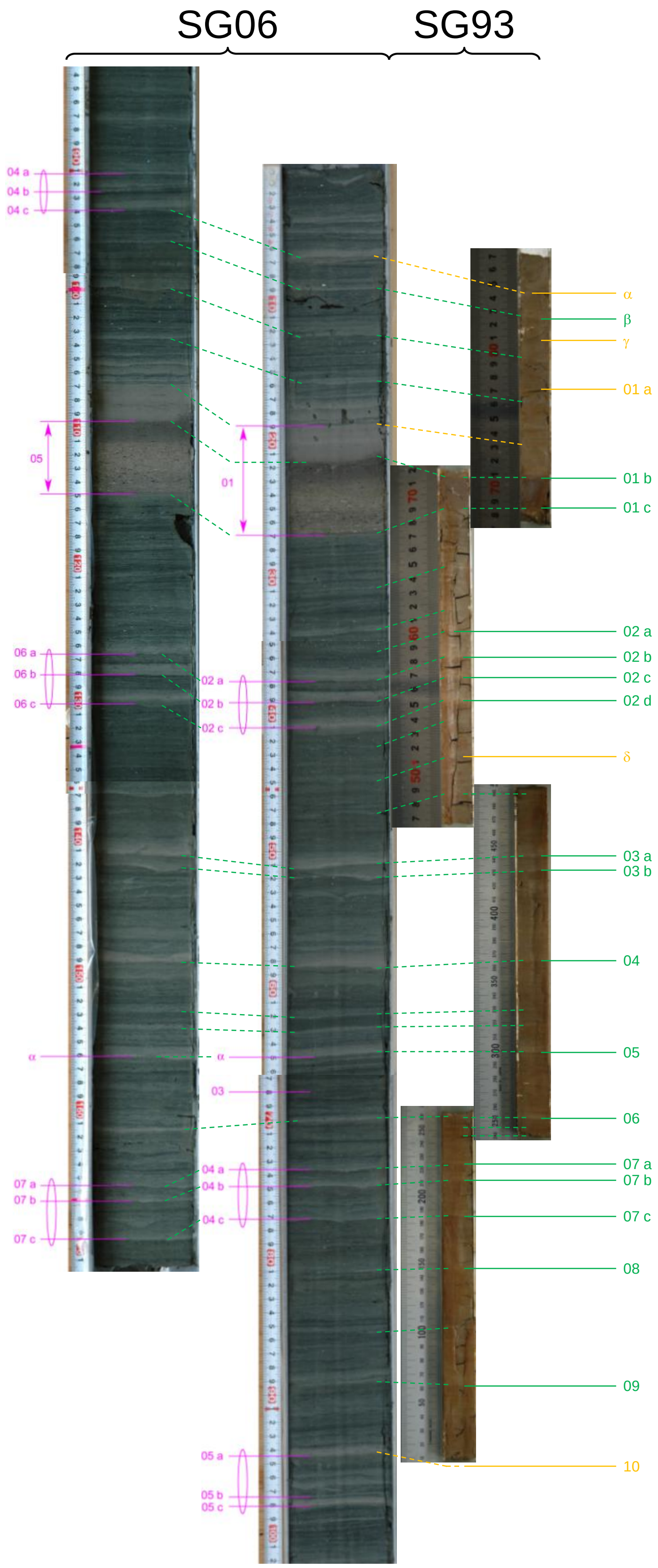
Appendix 9 (g): SG93 core section SG23 (right), as compared to SG06 core sections B-10 (left), and A-11 (centre).



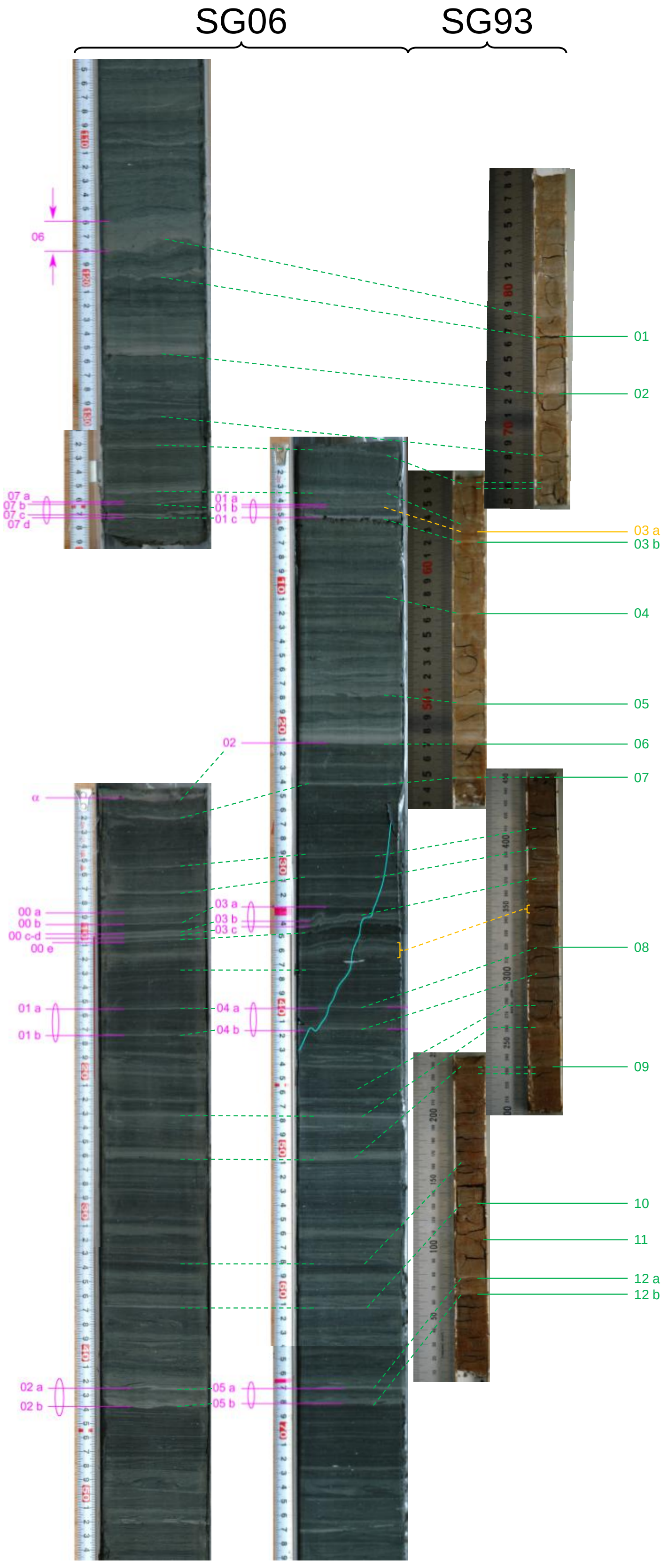
Appendix 9 (h): SG93 core section SG24 (right), as compared to SG06 core sections A-11 (left), and B-11 (centre).



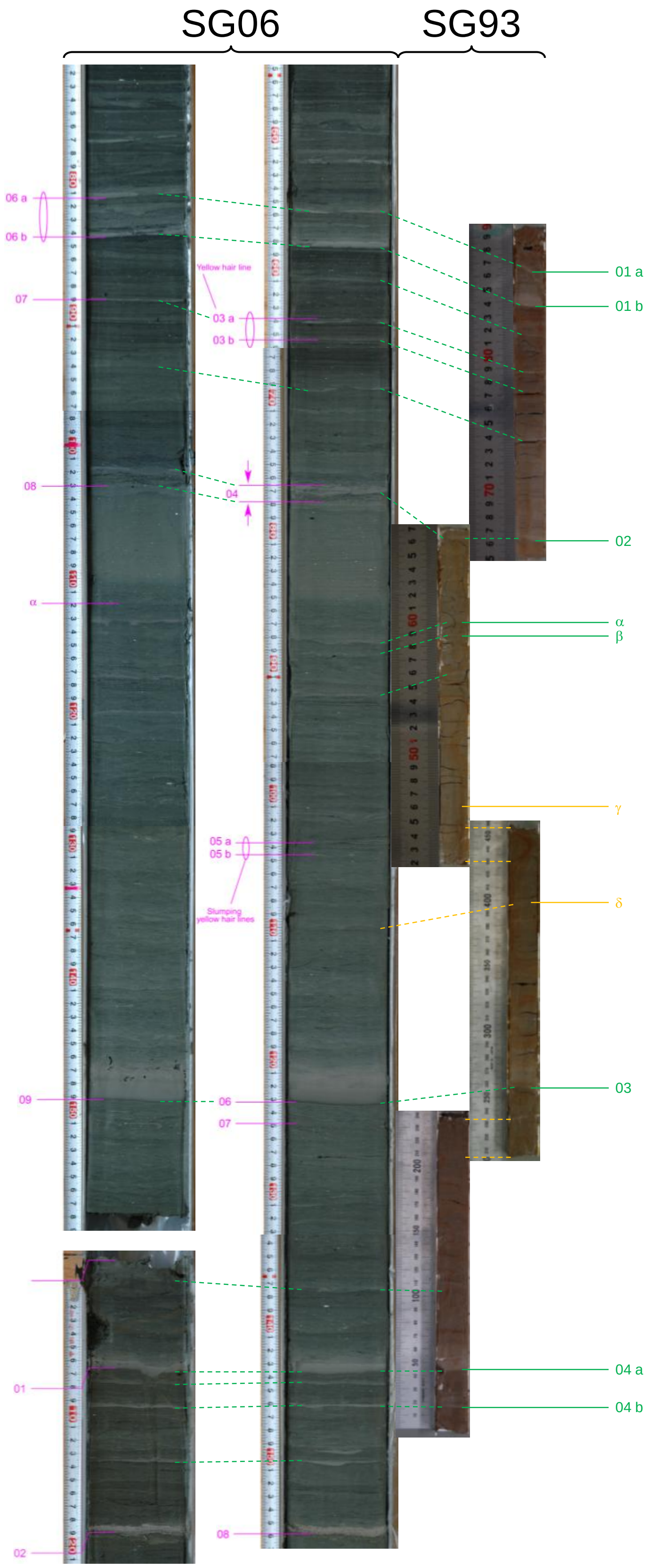
Appendix 9 (i): SG93 core section SG25 (right), as compared to SG06 core sections B-11 (left), and A-12 (centre).



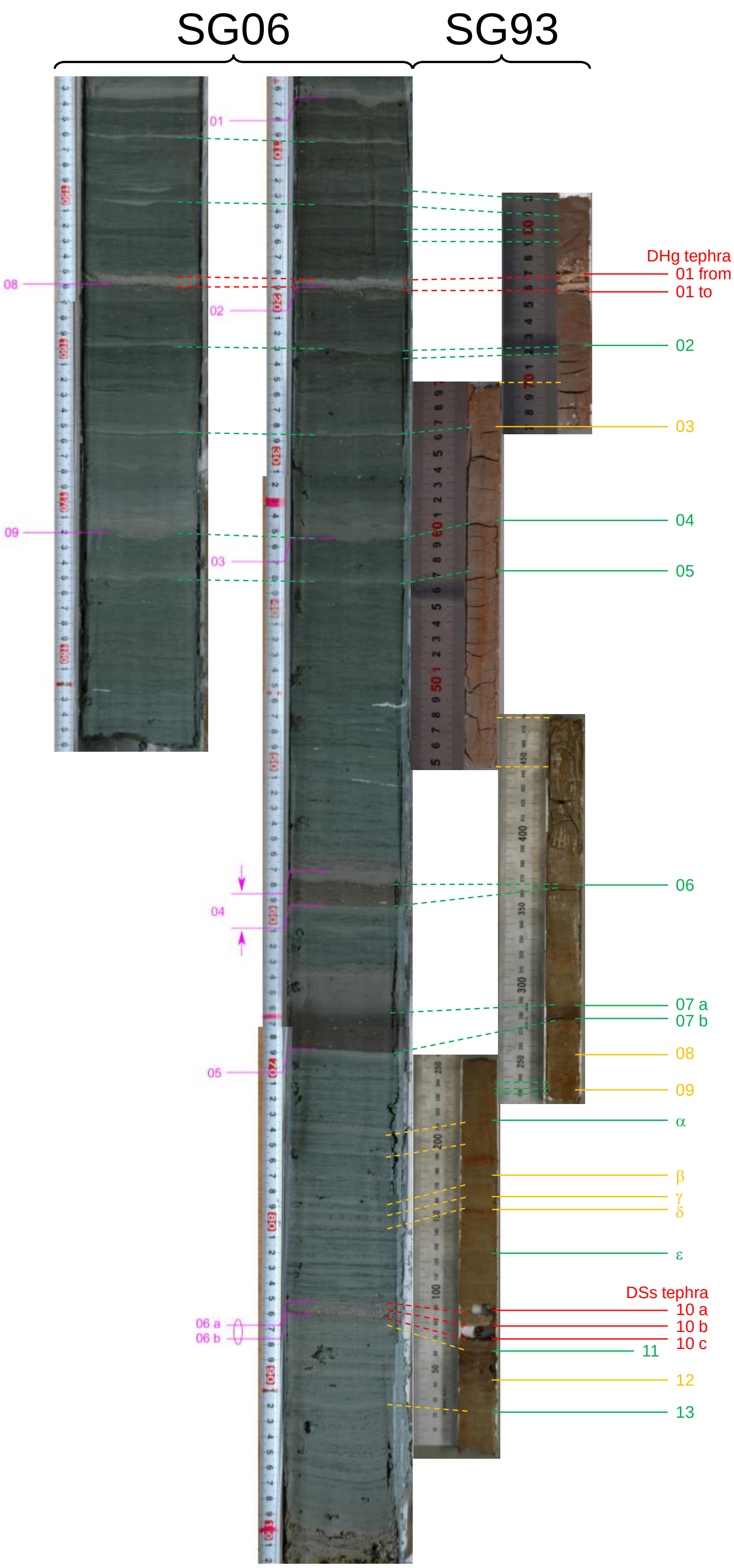
Appendix 9 (j): SG93 core section SG26 (right), as compared to SG06 core sections A-12 and A-13 (left), and B-12 (centre).



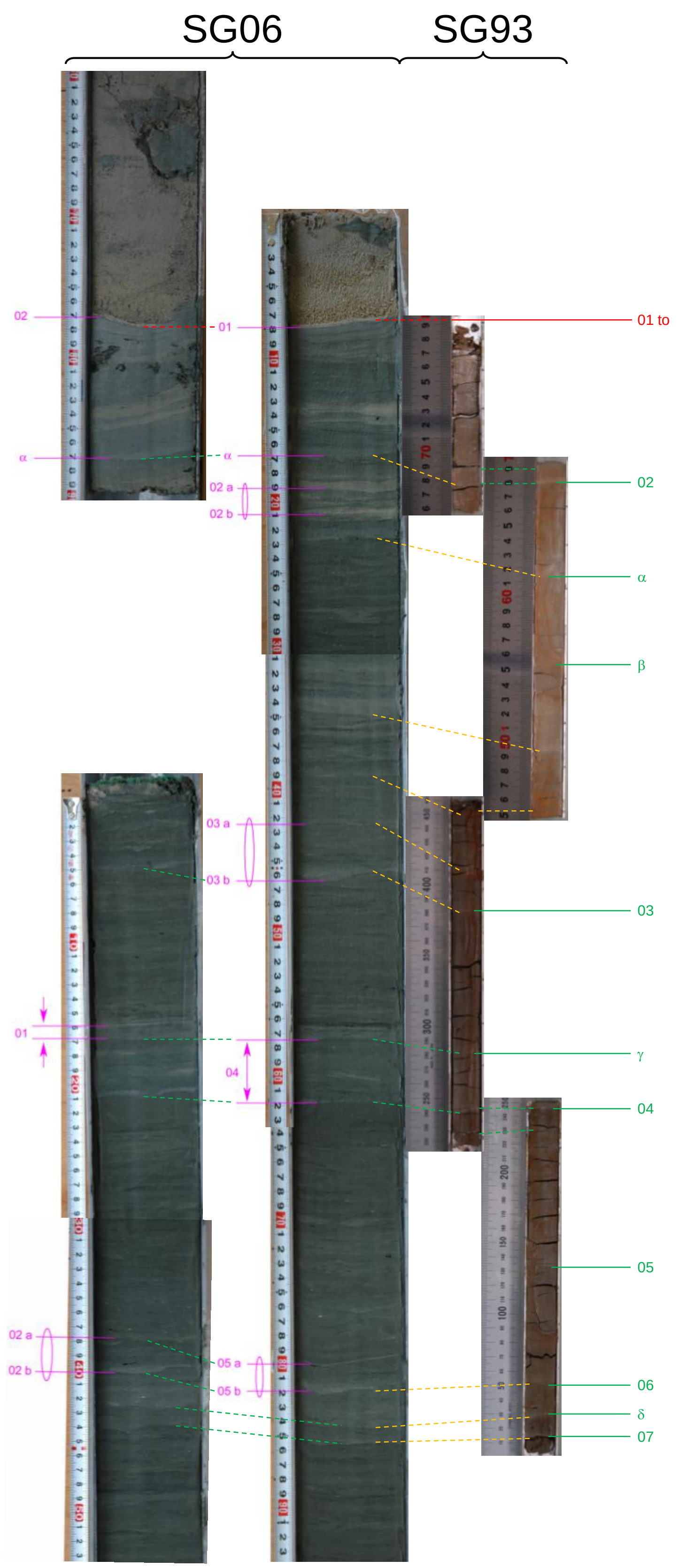
Appendix 9 (k): SG93 core section SG27 (right), as compared to SG06 core sections B-12 and B-13 (left), and A-13 (centre).



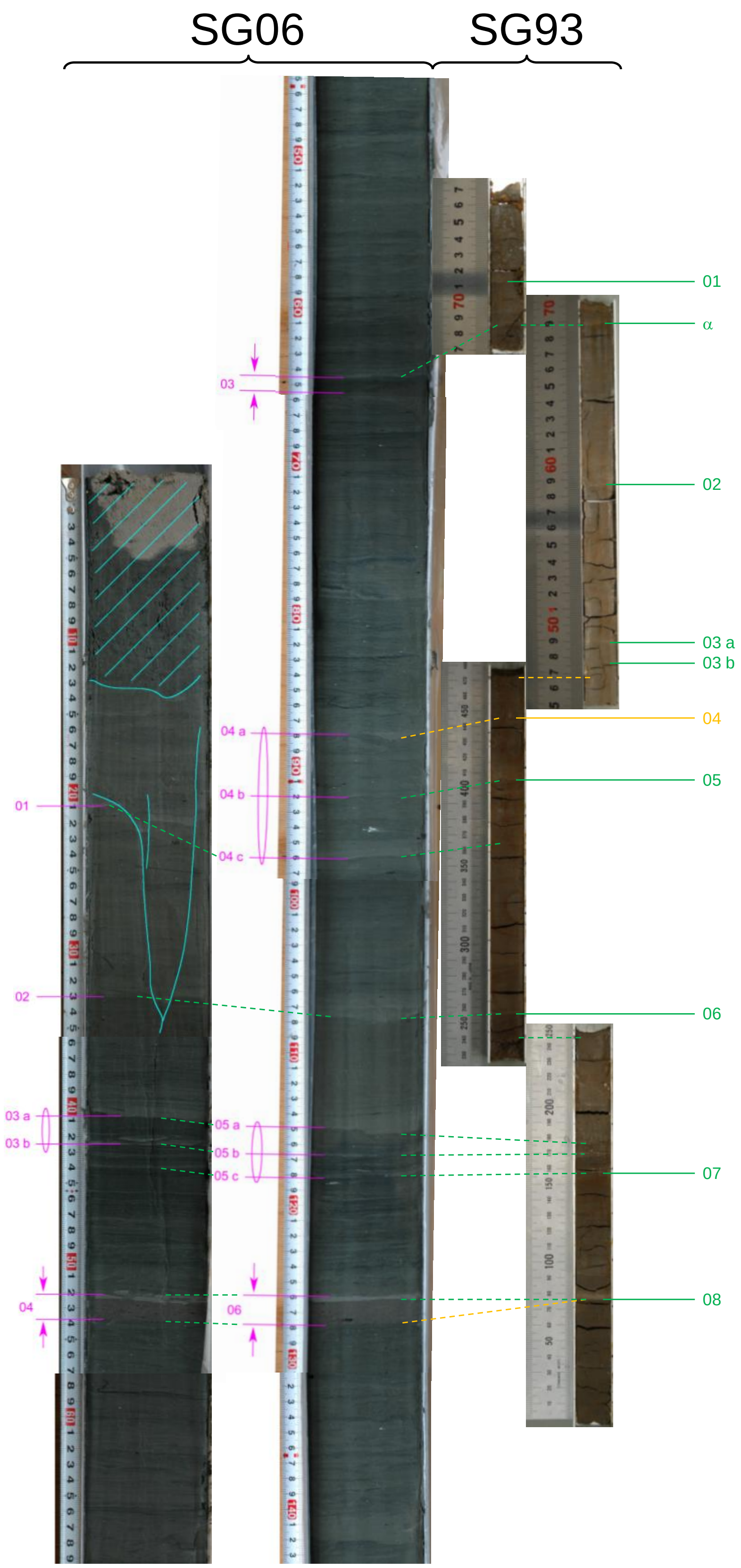
Appendix 9 (l): SG93 core section SG28 (right), as compared to SG06 core sections A-13 (left), and B-13 (centre).



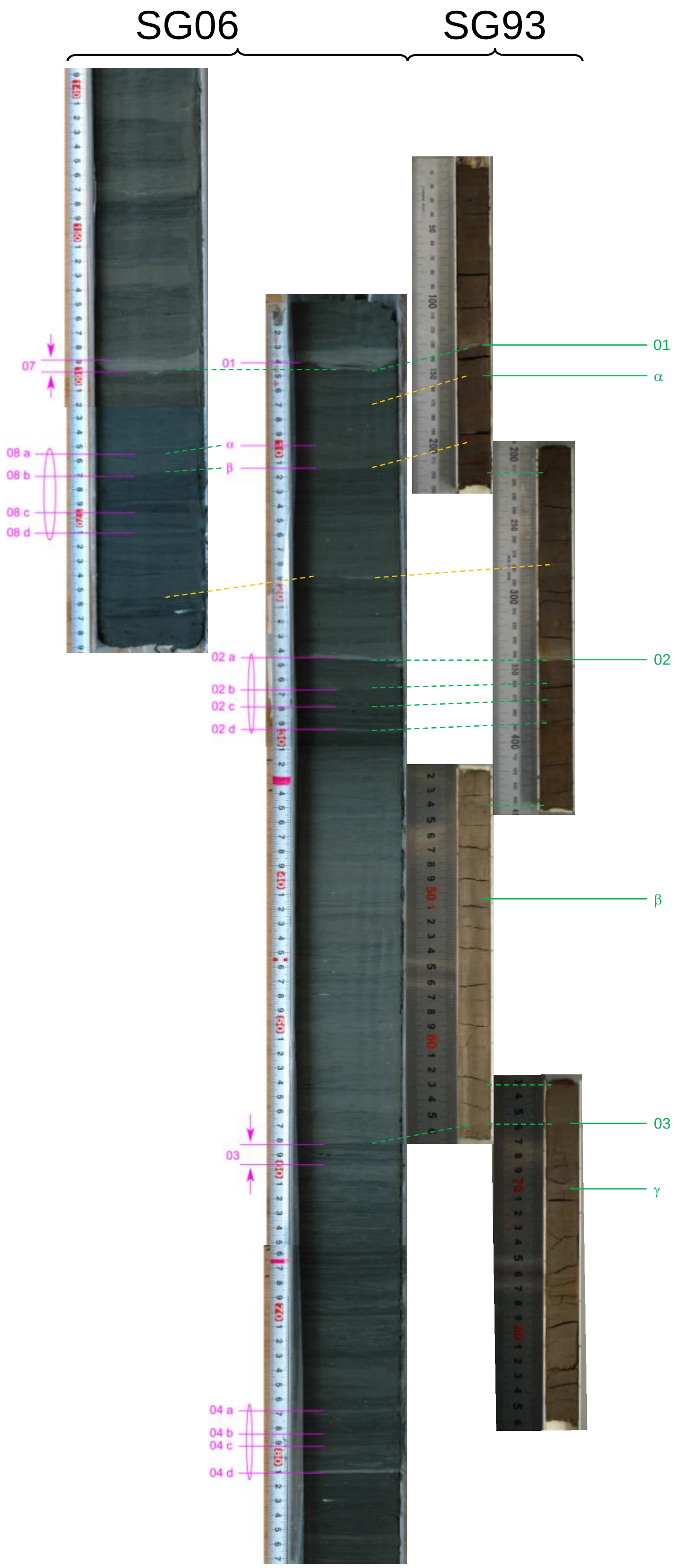
Appendix 9 (m): SG93 core section SG29 (right), as compared to SG06 core sections A-14 and A-15 (left), and B-14 (centre).



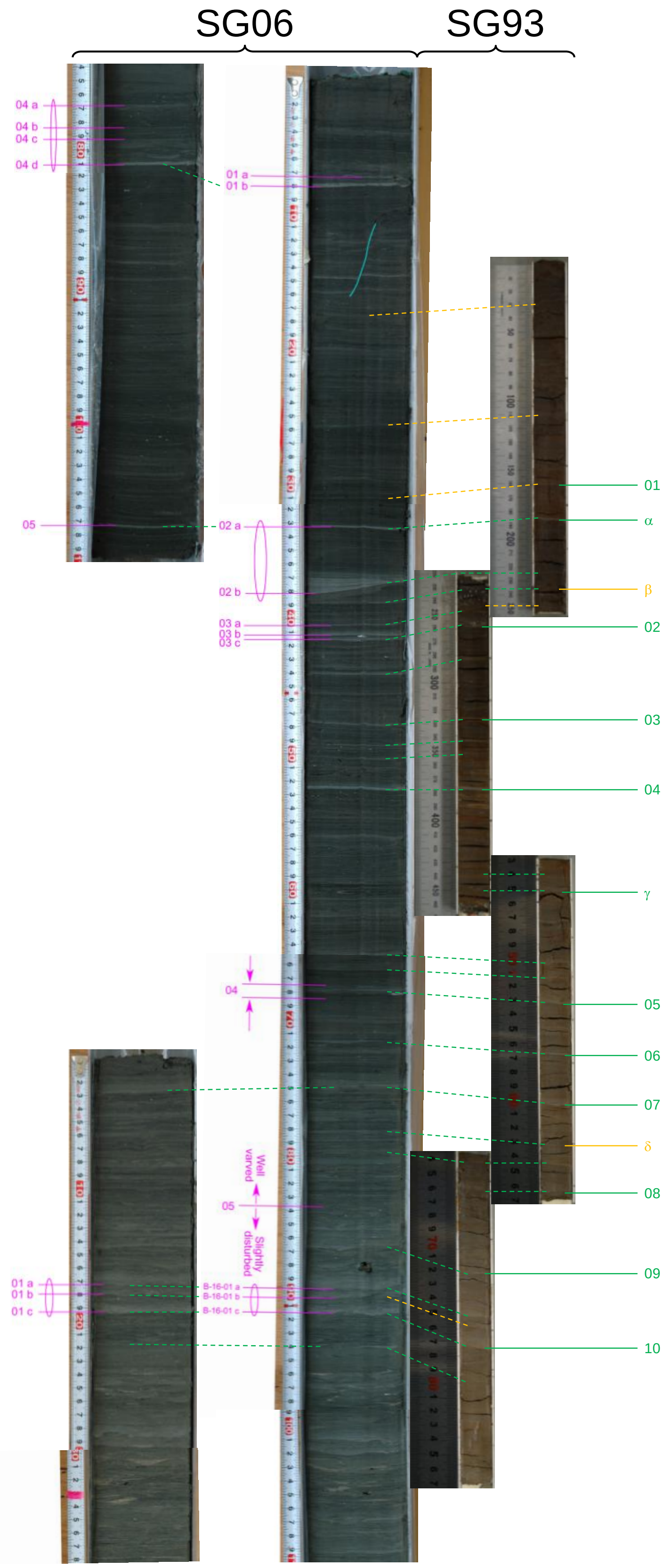
Appendix 9 (n): SG93 core section SG30 (right), as compared to SG06 core sections C-11 (left), and A-15 (centre).



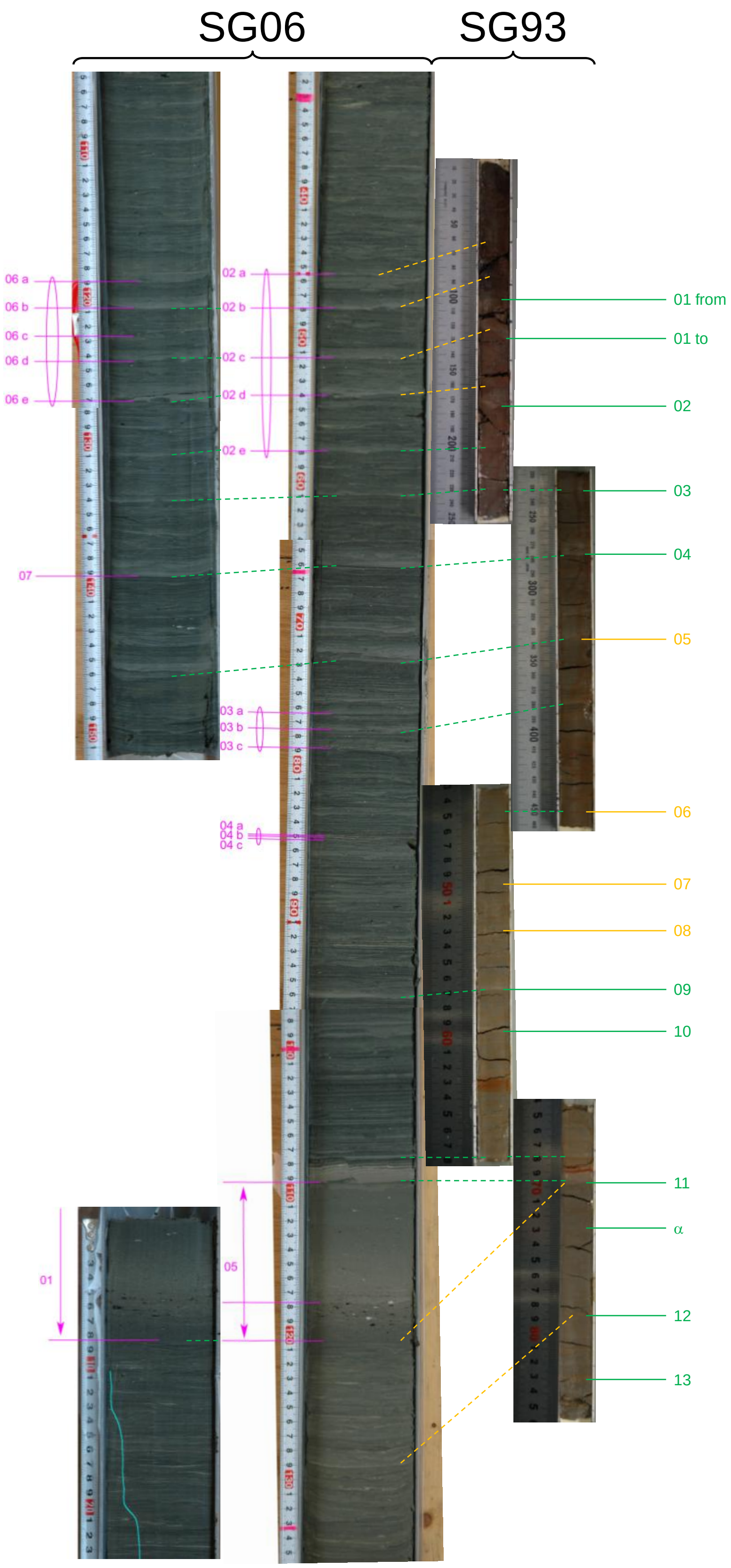
Appendix 9 (o): SG93 core section SG31 (right), as compared to SG06 core sections A-15 (left), and B-15 (centre).



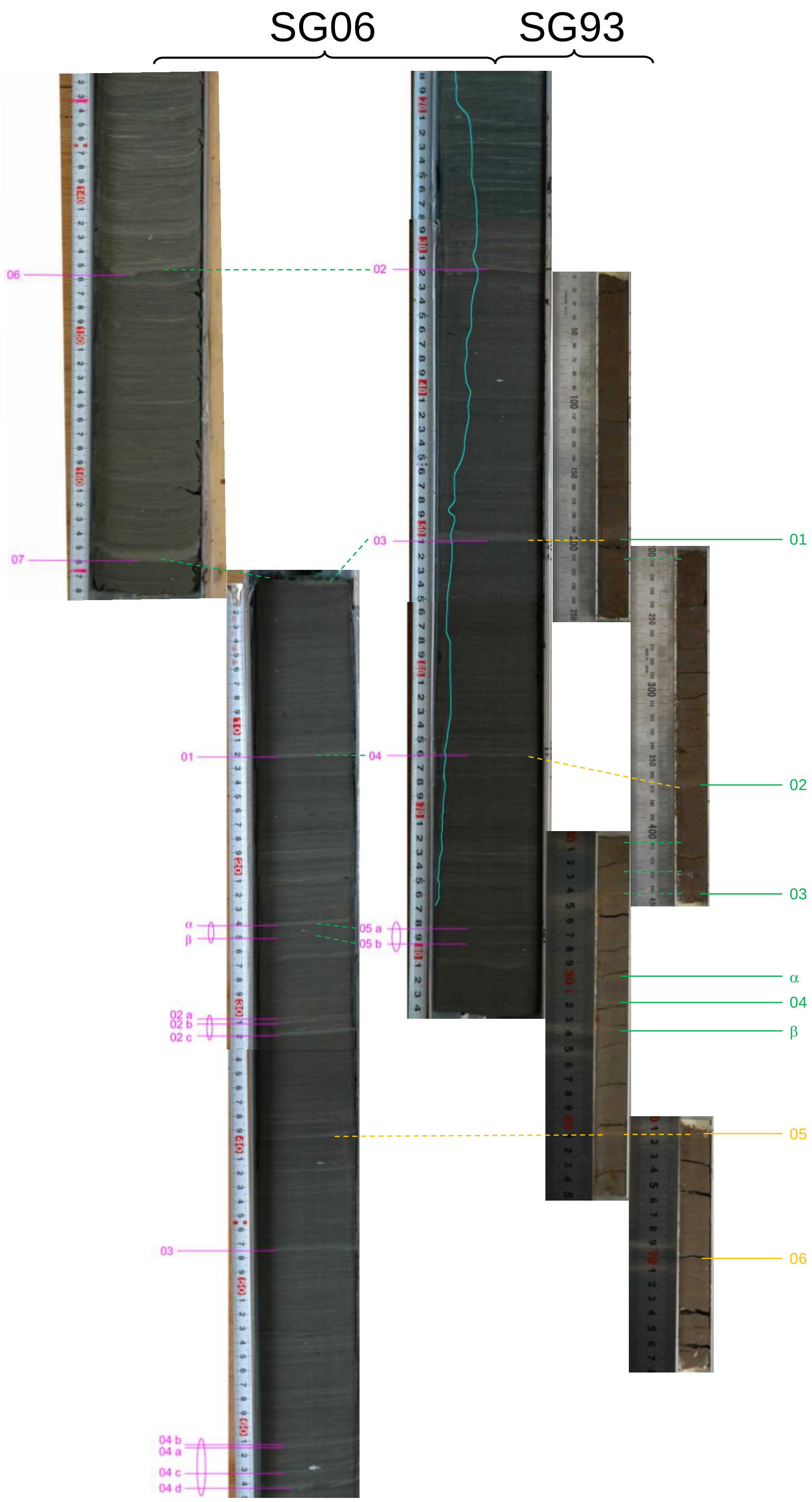
Appendix 9 (p): SG93 core section SG32 (right), as compared to SG06 core sections B-15 and B-16 (left), and A-16 (centre).



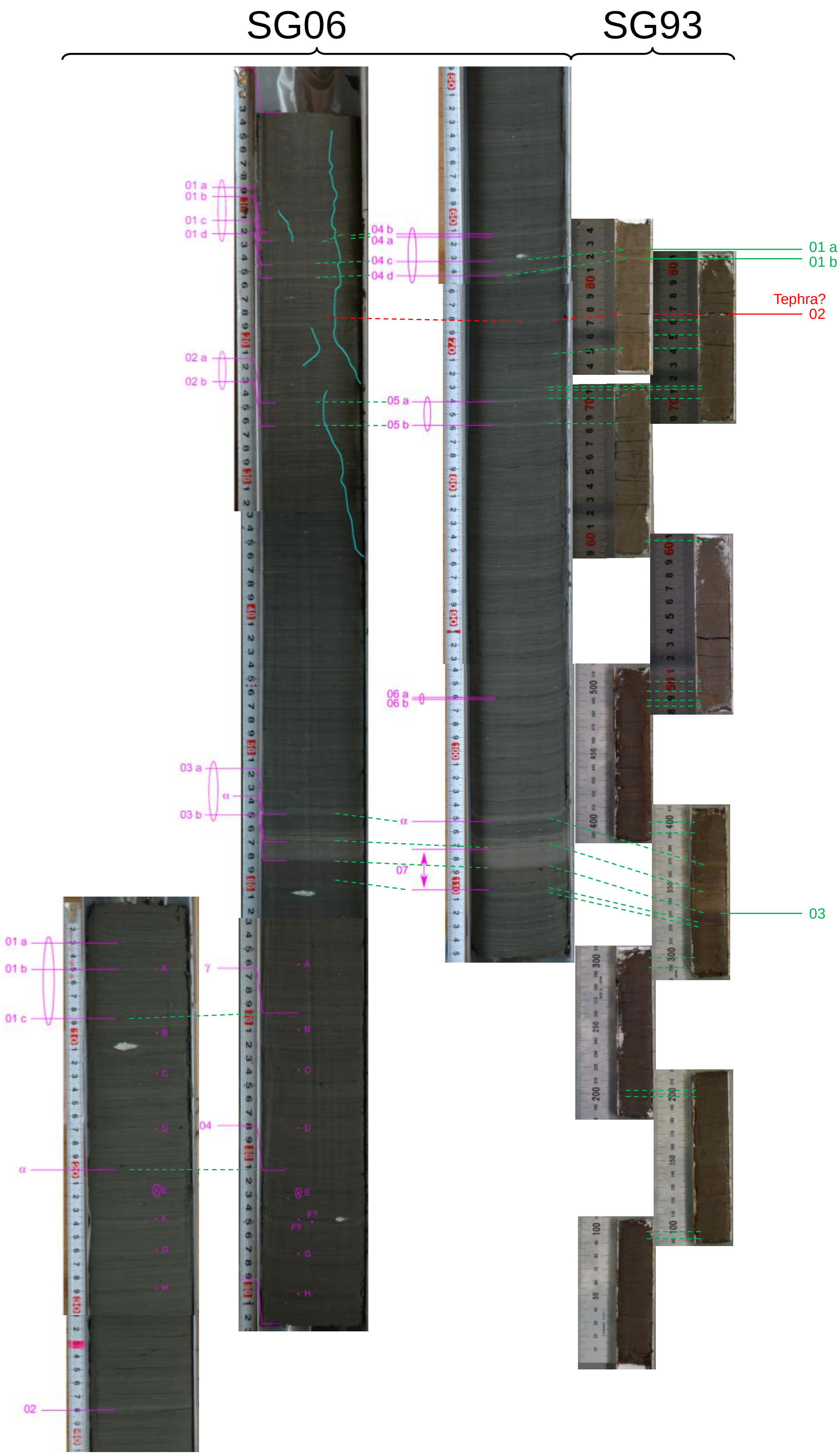
Appendix 9 (q): SG93 core section SG33 (right), as compared to SG06 core sections A-16 and C-12 (left), and B-16 (centre).



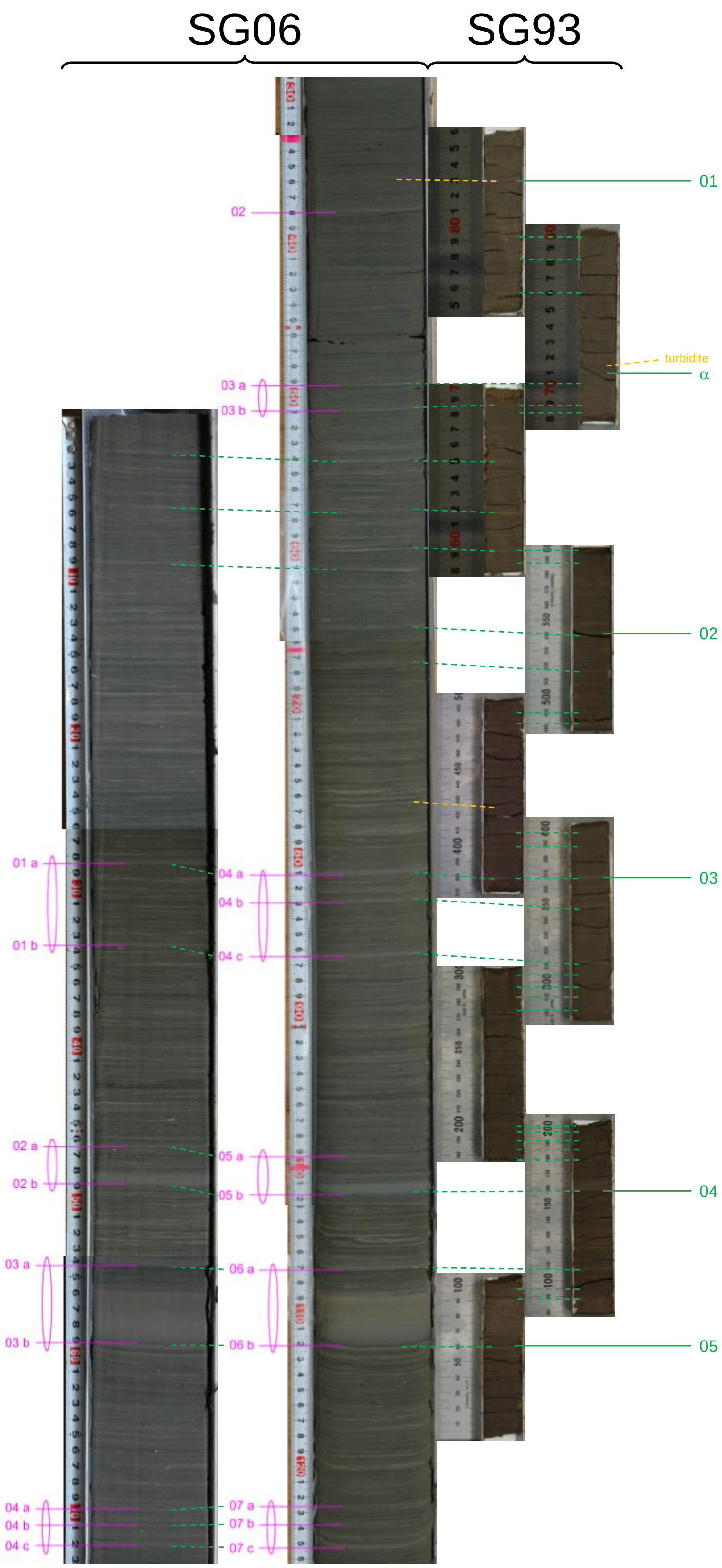
Appendix 9 (r): SG93 core section SG34 (right), as compared to SG06 core sections B-16 (left), A-17 (left of centre), and C-12 (right of centre).



Appendix 9 (s): SG93 core section SG35 (right), as compared to SG06 core sections B-17 (left), C-13 (left of centre), and A-17 (right of centre).



Appendix 9 (t): SG93 core section SG36 (right), as compared to SG06 core sections C-14 (left), and B-17 (centre).



Appendix 10: Suigetsu Varves 2006 Macrofossil Samples: Table View

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
001	C	N	06	n/a	3.2	4.2	1.0	From upper 5 cm of core section	Conifer needle	Small	3.7	600.5	589.0
002	C	N	06	n/a	34.0	34.5	0.5	Same as sample #003	Evergreen broad leaf	Large	34.3	631.6	620.1
003	C	N	06	n/a	34.0	34.5	0.5	Same as sample #002	Evergreen broad leaf	Large	34.3	631.6	620.1
004	C	N	06	n/a	37.5	38.0	0.5		Evergreen broad leaf	Large	37.8	635.2	623.7
005	C	N	06	n/a	18.7	19.2	0.5		Evergreen broad leaf	Large	19.0	616.0	604.5
006	C	N	06	n/a	60.2	60.7	0.5		Evergreen broad leaf	Sm-Med	60.5	657.6	645.6
007	C	N	06	n/a	79.4	79.4	0.0		Evergreen broad leaf	Small	79.4	678.2	665.7
008	C	N	06	n/a	85.7	86.3	0.6		Evergreen broad leaf	Sm-Med	86.0	685.4	672.9
009	C	N	06	n/a	87.6	88.2	0.6		Twig	Small	87.9	687.4	674.9
010	A	S	04	Upper	5.6	6.1	0.5		Deciduous broad leaf	Small	5.9	636.4	624.9
011	A	S	04	Upper	37.3	37.8	0.5		Deciduous broad leaf	Small	37.6	673.1	660.6
012	A	S	04	Upper	55.6	56.2	0.6		Deciduous broad leaf	Sm-Med	55.9	691.9	679.4
013	A	S	04	Upper	57.4	57.9	0.5		Deciduous broad leaf	Sm-Med	57.7	693.7	681.2
014	A	S	04	Upper	69.5	70.0	0.5		Twig	Small	69.8	705.8	693.3
015	A	S	04	Lower	101.6	102.4	0.8		Bark	Medium	102.0	738.0	724.5
016	A	S	04	Lower	117.9	118.3	0.4		Evergreen broad leaf	Large	118.1	754.1	740.1
017	A	S	04	Lower	125.0	125.5	0.5		Evergreen broad leaf	Small	125.3	761.3	747.3
018	A	S	04	Lower	136.5	137.0	0.5		Deciduous broad leaf	Small	136.8	772.8	758.8
019	A	S	04	Lower	150.3	150.9	0.6		Deciduous broad leaf	Small	150.6	786.4	772.4
020	A	S	04	Lower	162.6	163.1	0.5		Evergreen broad leaf	Small	162.9	798.5	784.6
021	A	n/a	02	n/a	182.0	182.5	0.5	Same as sample #022	Evergreen broad leaf (*Castanopsis* ?)	Large	182.3	413.9	405.9
022	A	n/a	02	n/a	182.0	182.5	0.5	Same as sample #021	Evergreen broad leaf (*Castanopsis* ?)	Large	182.3	413.9	405.9
023	B	S	04	n/a	49.5	49.5	0.0	Same as sample #783	Wood fragment	Large	49.5	792.7	778.7
024	A	n/a	06	n/a	176.0	176.0	0.0	From bottom of core section	Evergreen broad leaf (*Castanopsis* ?)	Med-Lg	176.0	1103.6	1081.3
025	A	N	06	n/a	157.7	157.7	0.0		Bud skin	Small	157.7	1085.3	1063.0
026	B	S	09	n/a	16.5	16.5	0.0		Twig	Large	16.5	1726.3	1684.7
027	A	n/a	16	n/a	88.3	88.3	0.0		Twig	Large	88.3	3002.1	2882.9
028	A	n/a	19	n/a	21.0	21.0	0.0		Twig	Small	21.0	3608.0	3466.3

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
029	B	N	19	n/a	62.0	62.0	0.0		Aquatic plant?	Small	62.0	3707.4	3560.9
030	A	n/a	20	n/a	103.0	103.0	0.0	From bottom of core section	Deciduous broad leaf vein network	Small	103.0	3888.1	3733.3
031	B	n/a	20	n/a	165.7	165.7	0.0	From bottom of core section	Twig	Sm-Med	165.7	4031.0	3876.2
032	A	S	21	n/a	66.0	67.0	1.0		Aquatic plant (*Phragmites* ?)	Medium	66.5	4064.5	3909.7
033	B	S	21	n/a	58.0	58.0	0.0		Bark	Large	58.0	4135.0	3980.2
034	A	S	21	n/a	93.0	95.0	2.0		Aquatic plant (*Phragmites* ?)	Large	94.0	4092.2	3937.4
035	A	n/a	26	n/a	30.5	30.5	0.0		Wood fragment	Large	30.5	4691.1	4528.8
036	A	S	04	Lower	175.8	176.2	0.4		Deciduous broad leaf	Sm-Med	176.0	812.0	798.0
037	A	N	05	n/a	5.5	6.0	0.5		Evergreen broad leaf	Medium	5.8	854.9	840.9
038	A	N	05	n/a	11.4	11.8	0.4		Deciduous broad leaf	Med-Lg	11.6	861.0	847.0
039	A	N	05	n/a	26.6	27.1	0.5		Evergreen broad leaf	Small	26.9	876.9	862.9
040	A	N	05	n/a	44.3	44.8	0.5		Deciduous broad leaf	Small	44.6	895.1	880.1
041	A	N	05	n/a	47.4	47.8	0.4		Deciduous broad leaf	Small	47.6	898.1	883.1
042	A	N	05	n/a	55.3	55.8	0.5		Twig	Small	55.6	906.1	891.1
043	A	N	05	n/a	55.8	56.3	0.5		Deciduous broad leaf	Small	56.1	906.6	891.6
044	B	S	05	Upper	9.4	9.9	0.5		Evergreen broad leaf	Small	9.7	912.2	897.2
045	B	S	05	Upper	22.3	22.6	0.3		Evergreen broad leaf	Small	22.5	925.0	910.0
046	B	S	05	Upper	23.0	23.3	0.3		Evergreen broad leaf	Small	23.2	925.7	910.7
047	B	S	05	Upper	36.3	36.7	0.4		Stem	Small	36.5	939.0	924.0
048	B	S	05	Upper	57.2	57.5	0.3		Evergreen broad leaf	Small	57.4	959.9	944.9
049	B	S	05	Upper	57.7	58.2	0.5		Evergreen broad leaf	Small	58.0	960.5	945.5
050	B	S	05	Upper	67.0	67.5	0.5		Evergreen broad leaf	Large	67.3	969.8	952.0
051	B	S	05	Upper	84.7	84.8	0.1		Deciduous broad leaf	Medium	84.8	987.3	969.5
052	B	S	05	Lower	95.2	95.7	0.5		Evergreen broad leaf	Large	95.5	998.0	980.2
053	B	S	05	Lower	106.4	106.9	0.5		Deciduous broad leaf	Small	106.7	1009.2	991.4
054	B	S	05	Lower	117.0	117.7	0.7		Evergreen broad leaf	Large	117.4	1019.9	1002.1
055	B	S	05	Lower	129.3	129.9	0.6		Deciduous broad leaf	Medium	129.6	1032.1	1012.8
056	B	S	05	Lower	139.7	140.1	0.4		Leaf and seed	Small	139.9	1042.4	1023.1

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
057	B	S	05	Lower	147.2	147.2	0.0		Deciduous broad leaf	Medium	147.2	1049.7	1030.4
058	B	S	05	Lower	154.3	154.8	0.5		Deciduous broad leaf	Medium	154.6	1056.8	1035.6
059	B	S	05	Lower	161.9	162.3	0.4		Deciduous broad leaf	Med-Lg	162.1	1064.6	1042.4
060	B	S	05	Lower	172.0	172.4	0.4		Evergreen broad leaf	Medium	172.2	1074.6	1052.4
061	B	S	05	Lower	174.1	174.3	0.2		Deciduous broad leaf	Medium	174.2	1076.6	1054.4
062	B	S	05	Lower	178.5	178.7	0.2		Deciduous broad leaf	Sm-Med	178.6	1081.0	1058.7
063	B	S	06	Upper	27.0	27.5	0.5		Deciduous broad leaf	Sm-Med	27.3	1121.9	1099.6
064	B	S	06	Upper	33.4	33.8	0.4		Deciduous broad leaf	Sm-Med	33.6	1128.2	1105.9
065	B	S	06	Upper	35.4	36.0	0.6		Evergreen broad leaf	Small	35.7	1130.3	1108.0
066	B	S	06	Upper	44.3	44.7	0.4		Non-leaf	Small	44.5	1139.1	1116.8
067	B	S	06	Upper	48.8	49.2	0.4		Deciduous broad leaf	Medium	49.0	1143.6	1121.3
068	B	S	06	Upper	62.2	62.4	0.2		Deciduous broad leaf	Med-Lg	62.3	1156.9	1134.6
069	B	S	06	Upper	69.7	70.2	0.5		Deciduous broad leaf	Medium	70.0	1164.6	1142.3
070	B	S	06	Lower	86.0	86.4	0.4		Deciduous broad leaf	Medium	86.2	1180.8	1158.5
071	B	S	06	Lower	97.8	98.5	0.7		Deciduous broad leaf	Small	98.2	1192.8	1170.5
072	B	S	06	Lower	106.8	107.3	0.5		Deciduous broad leaf	Small	107.1	1201.7	1179.4
073	B	S	06	Lower	121.8	122.3	0.5		Deciduous broad leaf	Small	122.1	1216.3	1194.1
074	B	S	06	Lower	134.5	134.9	0.4		Deciduous broad leaf	Very small	134.7	1228.6	1206.3
075	B	S	06	Lower	140.2	140.7	0.5		Non-leaf	Small	140.5	1234.1	1211.9
076	B	S	06	Lower	163.9	164.3	0.4		Deciduous broad leaf	Small	164.1	1257.7	1234.9
077	B	S	06	Lower	170.7	171.6	0.9		Deciduous broad leaf	Very small	171.2	1264.5	1241.2
078	B	S	07	Upper	7.2	7.5	0.3		Deciduous broad leaf	Medium	7.4	1298.9	1268.2
079	B	S	07	Upper	7.5	7.9	0.4		Evergreen broad leaf	Medium	7.7	1299.2	1268.6
080	B	S	07	Upper	21.9	22.5	0.6	Same as sample #1123	Deciduous broad leaf	Small	22.2	1314.1	1283.4
081	B	S	07	Upper	25.3	25.7	0.4		Deciduous broad leaf	Small	25.5	1317.4	1286.7
082	B	S	07	Upper	36.5	36.9	0.4		Deciduous broad leaf	Small	36.7	1328.6	1297.9
083	B	S	07	Upper	36.9	37.4	0.5		Deciduous broad leaf	Small	37.2	1329.1	1298.4
084	B	S	07	Upper	38.4	38.9	0.5		Deciduous broad leaf	Small	38.7	1330.6	1299.9
085	B	S	07	Upper	47.9	48.4	0.5		Deciduous broad leaf	Small	48.2	1340.1	1309.4
086	B	S	07	Upper	59.3	60.1	0.8		Deciduous broad leaf	Medium	59.7	1351.6	1320.9
087	B	S	07	Upper	59.9	60.5	0.6	Same as sample #1130	Deciduous broad leaf	Small	60.2	1352.1	1321.4

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
088	B	S	07	Upper	62.4	62.8	0.4		Deciduous broad leaf	Small	62.6	1354.5	1323.8
089	B	S	07	Upper	73.0	73.2	0.2	Same as sample #1119	Deciduous broad leaf	Very small	73.1	1365.0	1333.8
090	B	S	07	Upper	81.3	81.5	0.2		Deciduous broad leaf	Very small	81.4	1373.3	1342.1
091	B	S	07	Upper	82.0	82.5	0.5		Deciduous broad leaf	Small	82.3	1374.2	1343.0
092	B	S	07	Lower	90.9	91.5	0.6	Same as sample #1121	Twig	Large	91.2	1383.1	1351.9
093	B	S	07	Lower	102.2	102.6	0.4	Same as sample #1157	Deciduous broad leaf	Large	102.4	1394.3	1363.1
094	B	S	07	Lower	102.8	103.2	0.4		Deciduous broad leaf	Small	103.0	1394.9	1363.7
095	B	S	07	Lower	104.0	104.5	0.5		Deciduous broad leaf	Small	104.3	1396.2	1365.0
096	B	S	07	Lower	110.0	110.3	0.3		Non-leaf	Very small	110.2	1402.1	1370.9
097	B	S	07	Lower	116.5	117.0	0.5		Deciduous broad leaf	Small	116.8	1408.7	1377.5
098	B	S	07	Lower	119.6	120.0	0.4		Deciduous broad leaf	Very small	119.8	1411.7	1380.5
099	B	S	07	Lower	128.5	129.0	0.5	Same as sample #158	Deciduous broad leaf	Medium	128.8	1420.7	1389.5
100	B	S	07	Lower	136.0	136.6	0.6		Deciduous broad leaf	Very small	136.3	1428.2	1397.0
101	B	S	07	Lower	141.3	141.8	0.5		Deciduous broad leaf	Sm-Med	141.6	1433.5	1400.0
102	B	S	07	Lower	141.5	142.0	0.5		Deciduous broad leaf	Large	141.8	1433.7	1400.2
103	B	S	07	Lower	148.1	148.5	0.4		Deciduous broad leaf	Sm-Med	148.3	1440.6	1407.1
104	B	S	07	Lower	150.3	150.8	0.5	Same as sample #1147	Deciduous broad leaf	Small	150.6	1442.9	1409.5
105	B	S	07	Lower	151.7	152.1	0.4	Same as sample #1155	Deciduous broad leaf	Sm-Med	151.9	1444.3	1410.8
106	B	S	07	Lower	156.1	156.6	0.5		Deciduous broad leaf	Small	156.4	1448.6	1415.2
107	B	S	07	Lower	163.2	163.7	0.5	Same as sample #1153	Deciduous broad leaf	Large	163.5	1455.6	1422.2
108	B	S	07	Lower	164.8	165.2	0.4		Deciduous broad leaf	Small	165.0	1457.1	1423.7
109	B	S	07	Lower	168.0	168.5	0.5	Same as sample #1165	Deciduous broad leaf	Sm-Med	168.3	1460.3	1426.9
110	B	S	07	Lower	175.5	176.0	0.5	Same as sample #1152	Deciduous broad leaf	Sm-Med	175.8	1467.7	1434.2
111	B	S	07	Lower	182.5	183.1	0.6	Same as sample #1161	Bud skin?	Small	182.8	1474.7	1441.2
112	B	S	07	Lower	183.0	183.6	0.6		Deciduous broad leaf	Large	183.3	1475.2	1441.7
113	B	S	07	Lower	186.1	186.7	0.6	Same as sample #1160	Deciduous broad leaf	Small	186.4	1478.3	1444.8
114	B	S	08	Upper	1.6	2.1	0.5	From upper 5 cm of core section	Conifer needle	Small	1.9	1503.1	1469.1
115	B	S	08	Upper	6.6	7.4	0.8		Deciduous broad leaf	Large	7.0	1507.8	1473.8
116	B	S	08	Upper	19.0	19.5	0.5		Deciduous broad leaf	Very small	19.3	1519.0	1484.9
117	B	S	08	Upper	31.5	32.0	0.5		Deciduous broad leaf	Very small	31.8	1531.9	1497.9
118	B	S	08	Upper	35.7	36.1	0.4		Deciduous broad leaf	Small	35.9	1536.0	1501.9

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
119	B	S	08	Upper	36.8	37.2	0.4		Bud skin?	Small	37.0	1537.1	1503.0
120	B	S	08	Upper	41.7	42.1	0.4		Deciduous broad leaf	Very small	41.9	1542.0	1507.9
121	B	S	08	Upper	46.4	46.6	0.2		Deciduous broad leaf	Very small	46.5	1546.6	1512.5
122	B	N	08	Upper	48.9	49.1	0.2		Deciduous broad leaf	Sm-Med	49.0	1549.1	1515.0
123	B	S	08	Upper	55.4	56.2	0.8		Deciduous broad leaf	Sm-Med	55.8	1555.9	1521.8
124	B	S	08	Upper	64.7	65.2	0.5		Deciduous broad leaf	Small	65.0	1565.1	1531.0
125	B	S	08	Upper	80.6	81.1	0.5		Deciduous broad leaf	Large	80.9	1581.0	1546.9
126	B	S	08	Upper	92.1	92.7	0.6		*Sphagnam* ? *Juniperus* ?	Small	92.4	1592.5	1558.0
127	B	N	08	Upper	14.2	14.5	0.3		Deciduous broad leaf	Small	14.4	1514.5	1480.4
128	B	N	08	Upper	14.9	15.3	0.4		Deciduous broad leaf	Medium	15.1	1515.2	1481.1
129	B	N	08	Upper	70.2	70.7	0.5		Deciduous broad leaf	Sm-Med	70.5	1570.6	1536.5
130	B	N	08	Upper	91.0	91.6	0.6		Deciduous broad leaf	Large	91.3	1591.4	1556.9
131	B	N	08	Upper	96.2	96.6	0.4		Deciduous broad leaf	Sm-Med	96.4	1596.5	1562.0
132	B	N	08	Upper	97.1	97.3	0.2		Deciduous broad leaf	Small	97.2	1597.3	1562.8
133	A	S	08	Lower	143.1	143.6	0.5		Deciduous broad leaf	Sm-Med	143.4	1479.1	1445.6
134	A	S	08	Lower	148.2	148.7	0.5		Deciduous broad leaf	Very small	148.5	1484.2	1450.7
135	A	S	08	Lower	159.2	159.7	0.5		Deciduous broad leaf	Medium	159.5	1495.2	1461.1
136	A	S	08	Lower	172.6	172.8	0.2		Deciduous broad leaf	Large	172.7	1508.4	1474.3
137	A	S	08	Lower	176.8	177.0	0.2		Deciduous broad leaf	Very small	176.9	1512.6	1478.5
138	A	S	08	Lower	185.0	185.6	0.6		Deciduous broad leaf	Small	185.3	1521.0	1486.9
139	A	S	08	Lower	187.9	188.1	0.2		Deciduous broad leaf	Medium	188.0	1523.7	1489.6
140	B	S	08	Lower	96.0	96.5	0.5		Deciduous broad leaf	Sm-Med	96.3	1596.4	1561.8
141	B	S	08	Lower	99.9	100.4	0.5	Different sample from #142	Deciduous broad leaf	Very small	100.2	1600.3	1565.7
142	B	S	08	Lower	99.9	100.4	0.5	Different sample from #141	Conifer needle	Small	100.2	1600.3	1565.7
143	B	S	08	Lower	102.1	102.6	0.5		Deciduous broad leaf	Small	102.4	1602.5	1567.9
144	B	S	08	Lower	102.6	103.1	0.5		Deciduous broad leaf	Small	102.9	1603.0	1568.4
145	B	S	08	Lower	108.6	109.0	0.4		Deciduous broad leaf	Small	108.8	1608.9	1574.4
146	B	S	08	Lower	108.7	109.1	0.4		Conifer needle	Small	108.9	1609.0	1574.5
147	B	S	08	Lower	113.2	113.6	0.4		Deciduous broad leaf	Sm-Med	113.4	1613.5	1579.0
148	B	S	08	Lower	118.8	119.2	0.4		Deciduous broad leaf	Sm-Med	119.0	1619.1	1584.6

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
149	B	S	08	Lower	124.6	125.1	0.5		Deciduous broad leaf	Small	124.9	1625.1	1590.1
150	B	S	08	Lower	132.1	132.5	0.4		Deciduous broad leaf	Sm-Med	132.3	1632.7	1592.1
151	B	S	08	Lower	143.8	144.3	0.5		Conifer needle	Very small	144.1	1644.5	1603.9
152	B	S	08	Lower	148.2	148.7	0.5		Deciduous broad leaf	Medium	148.5	1648.8	1608.2
153	B	S	08	Lower	152.3	152.7	0.4		Deciduous broad leaf	Large	152.5	1652.7	1612.1
154	B	S	08	Lower	173.0	173.2	0.2		Conifer needle	Small	173.1	1672.2	1631.6
155	B	S	08	Lower	175.2	175.7	0.5		Deciduous broad leaf	Small	175.5	1674.6	1634.0
156	B	S	08	Lower	179.7	180.1	0.4		Deciduous broad leaf	Small	179.9	1679.1	1638.5
157	B	S	08	Lower	181.8	182.2	0.4		Deciduous broad leaf	Small	182.0	1681.3	1640.6
158	B	S	08	Lower	183.7	184.2	0.5		Bud skin?	Small	184.0	1683.2	1642.5
159	B	S	09	Upper	3.8	4.3	0.5	From upper 5 cm of core section	Twig? Aquatic stem?	Large	4.1	1714.4	1673.3
160	B	S	09	Upper	13.5	13.7	0.2		Deciduous broad leaf	Sm-Med	13.6	1723.1	1681.5
161	B	S	09	Upper	15.2	15.6	0.4		Deciduous broad leaf	Small	15.4	1725.1	1683.5
162	B	S	09	Upper	15.9	16.3	0.4		Non-leaf	Very small	16.1	1725.8	1684.2
163	B	S	09	Upper	32.7	33.0	0.3		Deciduous broad leaf	Small	32.9	1742.9	1701.2
164	B	S	09	Upper	33.0	33.3	0.3		Deciduous broad leaf	Small	33.2	1743.2	1701.5
165	B	S	09	Upper	41.4	41.6	0.2		Deciduous broad leaf	Small	41.5	1751.5	1709.9
166	B	S	09	Upper	60.8	61.2	0.4		Deciduous broad leaf	Sm-Med	61.0	1771.0	1729.4
167	B	S	09	Upper	68.9	69.5	0.6		Deciduous broad leaf	Medium	69.2	1779.2	1737.6
168	B	S	09	Upper	81.7	82.2	0.5		Deciduous broad leaf	Medium	82.0	1792.0	1750.3
169	A	S	09	Lower	157.3	157.8	0.5		Non-leaf	Small	157.6	1699.0	1657.8
170	A	S	09	Lower	166.0	166.5	0.5		Non-leaf	Small	166.3	1707.7	1666.5
171	B	S	09	Lower	92.9	93.3	0.4		Conifer needle	Very small	93.1	1803.1	1761.5
172	B	S	09	Lower	104.3	104.8	0.5		Deciduous broad leaf	Small	104.6	1814.6	1772.9
173	B	S	09	Lower	124.0	124.4	0.4		Conifer needle	Very small	124.2	1834.2	1792.6
174	B	S	09	Lower	132.8	133.2	0.4		Deciduous broad leaf	Small	133.0	1843.0	1801.4
175	B	S	09	Lower	160.6	161.0	0.4		Deciduous broad leaf	Small	160.8	1869.7	1827.1
176	B	S	09	Lower	168.4	168.8	0.4		Conifer needle	Small	168.6	1877.8	1835.2
177	B	S	09	Lower	178.5	179.0	0.5		Conifer needle	Very small	178.8	1888.4	1845.7
178	B	S	09	Lower	179.0	179.6	0.6		Deciduous broad leaf	Medium	179.3	1888.9	1846.3
179	B	S	09	Lower	184.1	184.5	0.4		Deciduous broad leaf	Large	184.3	1894.1	1851.5

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
180	A	S	10	Lower	149.4	149.9	0.5		Deciduous broad leaf	Medium	149.7	1901.2	1858.5
181	A	S	10	Lower	151.7	152.2	0.5		Conifer needle	Very small	152.0	1903.5	1860.8
182	A	S	10	Lower	159.2	159.6	0.4		Deciduous broad leaf	Small	159.4	1910.9	1868.3
183	A	S	10	Lower	171.5	171.7	0.2		Non-leaf	Very small	171.6	1923.1	1880.5
184	B	S	10	Upper	0.8	1.2	0.4	From upper 5 cm of core section	Conifer needle	Small	1.0	1935.0	1891.9
185	B	S	10	Upper	5.6	6.1	0.5		Conifer needle	Very small	5.9	1939.9	1896.7
186	B	S	10	Upper	46.3	46.6	0.3		Conifer needle	Small	46.5	1980.5	1930.6
187	B	S	10	Upper	55.4	55.6	0.2		Twig	Small	55.5	1989.5	1939.7
188	B	S	10	Lower	81.3	81.7	0.4		Deciduous broad leaf	Sm-Med	81.5	2015.5	1963.7
189	B	S	10	Lower	118.6	119.1	0.5	Same as samples #989 & #1012	Deciduous broad leaf	Large	118.9	2053.3	2000.5
190	B	S	10	Lower	130.0	130.4	0.4	Same as samples #990 & #1016	Conifer needle and a leaf	Small	130.2	2065.0	2012.2
191	B	S	10	Lower	131.2	131.4	0.2		Non-leaf	Very small	131.3	2066.1	2012.2
192	B	S	10	Lower	146.9	147.3	0.4		Deciduous broad leaf	Very small	147.1	2081.7	2025.0
193	B	S	10	Lower	162.9	163.4	0.5		Fine branch	Small	163.2	2097.7	2040.9
194	B	S	11	Upper	10.2	10.7	0.5		Deciduous broad leaf	Sm-Med	10.5	2139.8	2082.5
195	B	S	11	Upper	42.4	42.9	0.5		Fine branch	Small	42.7	2172.0	2114.2
196	B	S	11	Upper	57.3	57.5	0.2	Same as sample #965	Bark?	Medium	57.4	2186.7	2129.0
197	B	S	11	Upper	61.1	61.4	0.3	Same as sample #969	Deciduous broad leaf	Medium	61.3	2190.6	2132.8
198	A	S	11	Lower	133.2	133.7	0.5		Conifer needle	Very small	133.5	2101.4	2044.6
199	A	S	11	Lower	155.8	156.3	0.5	Same as sample #880	Deciduous broad leaf	Small	156.1	2124.0	2067.2
200	B	S	11	Lower	180.2	180.4	0.2		*Larix* needle?	Small	180.3	2307.0	2238.6
201	B	S	11	Lower	131.0	131.5	0.5		Deciduous broad leaf	Small	131.3	2260.6	2192.7
202	B	S	11	Lower	146.5	147.0	0.5		Conifer needle	Small	146.8	2276.1	2208.2
203	B	S	11	Lower	151.1	151.6	0.5		Deciduous broad leaf	Small	151.4	2280.7	2212.8
204	A	S	12	Lower	47.1	47.6	0.5		Twig	Small	47.4	2266.5	2198.6
205	A	S	12	Lower	47.6	48.1	0.5	Same as samples #616, #1055 & #1060	Deciduous broad leaf	Very small	47.9	2267.0	2199.2
206	A	S	12	Lower	58.6	58.8	0.2		Non-leaf	Very small	58.7	2278.7	2210.9
207	A	S	12	Lower	100.7	101.2	0.5	Same as sample #598	Deciduous broad leaf	Medium	101.0	2321.5	2252.6
208	A	S	12	Lower	103.0	103.4	0.4		Stem fragment	Very small	103.2	2323.7	2254.9

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
209	A	S	12	Lower	103.7	104.3	0.6		Young twig	Large	104.0	2324.5	2255.7
210	A	S	12	Lower	133.4	133.8	0.4		Non-leaf	Very small	133.6	2354.1	2283.2
211	B	S	12	Upper	31.8	32.0	0.2		Deciduous broad leaf	Medium	31.9	2384.5	2313.1
212	B	S	12	Upper	54.4	54.9	0.5	Same as samples #358 & #800	Deciduous broad leaf	Medium	54.7	2407.3	2335.8
213	B	S	12	Lower	62.9	63.4	0.5		Deciduous broad leaf	Small	63.2	2415.8	2344.3
214	B	S	12	Lower	88.5	88.9	0.4		Insect fragment?	Small	88.7	2441.3	2369.9
215	B	S	12	Lower	95.3	95.5	0.2	Same as samples #799 & #995	Deciduous broad leaf	Med-Lg	95.4	2448.0	2376.6
216	B	S	12	Lower	113.0	113.3	0.3	Same as sample #996	Deciduous broad leaf	Small	113.2	2465.8	2394.3
217	B	S	12	Lower	136.2	136.4	0.2	Same as sample #1000	Deciduous broad leaf	Medium	136.3	2488.9	2417.5
218	B	S	13	Lower	12.7	13.2	0.5		Deciduous broad leaf	Sm-Med	13.0	2526.9	2453.4
219	B	S	13	Lower	24.1	24.5	0.4		Deciduous broad leaf	Sm-Med	24.3	2538.2	2464.3
220	B	S	13	Lower	32.5	33.0	0.5	Same as sample #663	Deciduous broad leaf	Small	32.8	2546.7	2472.7
221	B	S	14	n/a	28.5	29.1	0.6	Same as sample #888	Deciduous broad leaf	Sm-Med	28.8	2671.2	2555.7
222	B	S	14	n/a	51.5	51.8	0.3		Deciduous broad leaf	Large	51.7	2694.1	2578.5
223	B	S	14	n/a	84.1	84.9	0.8		Deciduous broad leaf	Medium	84.5	2726.9	2611.4
224	A	S	15	Upper	8.9	9.1	0.2		Deciduous broad leaf	Large	9.0	2691.5	2576.0
225	A	S	15	Upper	67.4	67.5	0.1		Deciduous broad leaf	Medium	67.5	2751.6	2636.0
226	A	S	15	Lower	85.6	86.3	0.7	≈8 mm below sample #726	Deciduous broad leaf	Medium	86.0	2770.1	2654.5
227	A	S	15	Lower	137.9	138.2	0.3		Deciduous broad leaf	Med-Lg	138.1	2822.2	2703.7
228	A	S	15	Lower	152.9	153.2	0.3		Non-leaf	Small	153.1	2837.2	2718.7
229	A	S	15	Lower	162.9	163.4	0.5		Deciduous broad leaf	Small	163.2	2847.3	2728.0
230	B	S	15	Lower	44.3	44.7	0.4		Deciduous broad leaf	Small	44.5	2884.3	2765.1
231	B	S	15	Lower	46.1	46.6	0.5		Non-leaf	Small	46.4	2886.2	2766.9
232	B	S	15	Lower	66.5	66.9	0.4		Deciduous broad leaf	Small	66.7	2906.5	2787.3
233	B	S	15	Lower	95.8	96.2	0.4		Twig	Small	96.0	2935.8	2816.6
234	A	S	16	Upper	42.8	43.1	0.3		Deciduous broad leaf	Small	43.0	2956.8	2837.5
235	A	S	16	Lower	58.6	59.1	0.5		Deciduous broad leaf	Sm-Med	58.9	2972.7	2853.4
236	A	S	16	Lower	86.9	87.1	0.2		Deciduous broad leaf	Small	87.0	3000.8	2881.6
237	A	S	16	Lower	88.4	88.9	0.5		Non-leaf	Large	88.7	3002.5	2883.2
238	A	S	16	Lower	96.2	96.4	0.2		Deciduous broad leaf	Large	96.3	3010.1	2890.9
239	A	S	16	Lower	135.2	135.5	0.3		Deciduous broad leaf	Large	135.4	3048.5	2928.3

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
240	A	S	16	Lower	143.0	143.5	0.5	From within flood layer	Deciduous broad leaf	Medium	143.3	3056.2	2935.9
241	B	S	16	Lower	78.8	79.3	0.5		Deciduous broad leaf	Small	79.1	3065.7	2945.4
242	B	S	16	Lower	85.0	85.2	0.2	Same as sample #1026	Deciduous broad leaf	Small	85.1	3071.7	2951.5
243	B	S	16	Lower	148.0	148.4	0.4		Scale?	Small	148.2	3134.8	3003.5
244	C	S	12	n/a	27.3	27.8	0.5		Deciduous broad leaf	Small	27.6	3127.3	2996.0
245	C	S	12	n/a	33.3	33.6	0.3		Conifer needle	Small	33.5	3133.6	3002.3
246	C	S	12	n/a	61.6	62.0	0.4		Deciduous broad leaf	Large	61.8	3163.4	3031.6
247	A	S	17	Lower	18.8	19.3	0.5	Same as samples #743 & #1047	Deciduous broad leaf	Large	19.1	3174.6	3042.7
248	A	S	17	Lower	51.3	51.7	0.4		Deciduous broad leaf	Very small	51.5	3207.0	3075.2
249	A	S	17	Lower	67.2	67.5	0.3		Deciduous broad leaf	Small	67.4	3222.9	3091.0
250	A	S	17	Lower	70.8	71.3	0.5	Same as sample #741	Deciduous broad leaf	Medium	71.1	3226.6	3094.7
251	A	S	17	Lower	81.4	81.7	0.3	Same as sample #742 & #1048	Deciduous broad leaf	Large	81.6	3237.1	3105.2
252	A	S	17	Lower	102.5	103.0	0.5	Same as sample #1049	Deciduous broad leaf	Sm-Med	102.8	3258.3	3126.4
253	B	S	17	Upper	25.9	26.1	0.2		Deciduous broad leaf	Small	26.0	3293.0	3158.9
254	B	S	17	Upper	32.4	32.8	0.4	Same as samples #972 & #1171	Deciduous broad leaf	Small	32.6	3299.6	3165.5
255	B	S	17	Upper	38.0	38.3	0.3	Same as samples #973 & #1166	Deciduous broad leaf	Very small	38.2	3305.2	3171.0
256	B	S	17	Upper	41.7	42.2	0.5	Same as sample #1169	Deciduous broad leaf	Very small	42.0	3309.0	3174.8
257	B	S	17	Lower	81.2	81.7	0.5		Non-leaf	Very small	81.5	3348.5	3214.3
258	B	S	17	Lower	119.5	120.0	0.5		Non-leaf	Very small	119.8	3386.8	3249.1
259	B	S	17	Lower	144.1	144.5	0.4		Deciduous broad leaf	Very small	144.3	3410.4	3272.7
260	C	S	14	n/a	8.2	8.6	0.4		Conifer needle	Small	8.4	3327.7	3193.6
261	C	S	14	n/a	27.3	27.6	0.3	Same as sample #426	Deciduous broad leaf	Small	27.5	3347.1	3213.0
262	C	S	14	n/a	68.8	69.2	0.4		Bud skin?	Small	69.0	3388.8	3251.2
263	C	S	14	n/a	71.3	71.9	0.6		Deciduous broad leaf	Sm-Med	71.6	3391.7	3254.1
264	A	S	18	n/a	12.2	12.6	0.4		Deciduous broad leaf	Small	12.4	3394.1	3256.5
265	A	S	18	n/a	12.8	13.2	0.4		Twig	Small	13.0	3394.7	3257.1
266	A	S	18	n/a	30.0	30.4	0.4	Same as sample #1098	Deciduous broad leaf	Sm-Med	30.2	3411.9	3274.3
267	A	S	18	n/a	42.0	42.4	0.4		Conifer needle?	Very small	42.2	3423.9	3286.3
268	A	S	18	n/a	43.5	44.1	0.6		Aquatic plant?	Sm-Med	43.8	3425.5	3287.9
269	A	S	18	n/a	73.1	73.5	0.4		Deciduous broad leaf	Small	73.3	3455.0	3317.4
270	A	S	18	n/a	85.1	85.5	0.4		Deciduous broad leaf	Small	85.3	3467.0	3329.4

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
271	B	S	18	Upper	4.0	4.5	0.5	From upper 5 cm of core section	Conifer needle	Small	4.3	3450.2	3312.5
272	B	S	18	Upper	20.9	21.2	0.3	Same as samples #981 & #1134	Deciduous broad leaf	Sm-Med	21.1	3467.0	3329.3
273	B	S	18	Upper	40.2	40.7	0.5	Same as sample #983	Deciduous broad leaf	Small	40.5	3486.4	3348.7
274	B	S	18	Upper	60.3	60.7	0.4	Same as sample #986	Deciduous broad leaf	Small	60.5	3506.4	3368.3
275	B	S	18	Lower	74.9	75.5	0.6		Deciduous broad leaf	Small	75.2	3521.1	3383.0
276	B	S	18	Lower	130.8	131.2	0.4		*Larix needle?*	Very small	131.0	3576.9	3436.3
277	B	S	18	Lower	149.0	149.5	0.5		Deciduous broad leaf	Small	149.3	3595.2	3453.5
278	A	S	19	n/a	8.1	8.5	0.4	≈3 mm above sample #667	Stem?	Small	8.3	3594.8	3453.2
279	A	S	19	n/a	48.6	49.0	0.4	Same as sample #668	Deciduous broad leaf	Small	48.8	3635.8	3494.2
280	A	S	19	n/a	65.1	65.4	0.3		Deciduous broad leaf	Very small	65.3	3652.3	3505.7
281	A	S	19	n/a	84.8	85.2	0.4		Deciduous broad leaf	Very small	85.0	3672.0	3525.5
282	A	S	19	n/a	97.1	97.5	0.4		Non-leaf	Very small	97.3	3684.3	3537.8
283	B	S	19	Upper	12.0	12.5	0.5	Same as sample #675	Deciduous broad leaf	Large	12.3	3656.5	3510.0
284	B	S	19	Upper	27.0	27.5	0.5	Same as sample #677	Deciduous broad leaf	Small	27.3	3672.2	3525.7
285	B	S	19	Upper	35.5	36.0	0.5	Same as sample #674	Deciduous broad leaf	Small	35.8	3681.2	3534.6
286	B	S	19	Upper	54.4	55.0	0.6	Same as sample #678	*Juniperus* ?	Very small	54.7	3700.1	3553.6
287	B	S	19	Lower	90.0	90.3	0.3		*Larix* needle?	Very small	90.2	3735.6	3585.7
288	B	S	19	Lower	97.2	97.6	0.4		Deciduous broad leaf	Small	97.4	3742.8	3593.0
289	B	S	19	Lower	127.3	127.9	0.6		Deciduous broad leaf	Very small	127.6	3773.0	3623.2
290	B	S	19	Lower	143.6	143.8	0.2		Twig	Very small	143.7	3789.1	3639.3
291	A	S	20	n/a	11.0	11.4	0.4		Deciduous broad leaf	Large	11.2	3796.7	3646.9
292	B	S	19	Lower	28.1	28.3	0.2		Deciduous broad leaf	Large	28.2	3673.2	3526.7
293	B	S	19	Lower	46.4	47.0	0.6		Deciduous broad leaf	Small	46.7	3692.1	3545.6
294	B	S	19	Lower	76.4	77.0	0.6		Deciduous broad leaf	Small	76.7	3722.1	3572.3
295	B	S	20	Upper	26.3	26.8	0.5		Deciduous broad leaf	Small	26.6	3892.5	3737.6
296	B	S	20	Lower	145.6	145.8	0.2	Same as sample #943	Deciduous broad leaf	Large	145.7	4011.6	3856.8
297	A	S	21	n/a	19.0	19.1	0.1		Deciduous broad leaf	Small	19.1	4017.1	3862.2
298	A	S	21	n/a	44.0	44.1	0.1		Conifer needle	Small	44.1	4042.1	3887.2
299	A	S	21	n/a	46.1	46.5	0.4		Deciduous broad leaf	Small	46.3	4044.3	3889.5
300	A	S	21	n/a	60.0	60.2	0.2		Conifer needle	Very small	60.1	4058.1	3903.3
301	A	S	21	n/a	61.3	61.9	0.6		Deciduous broad leaf	Small	61.6	4059.6	3904.8

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
302	B	S	21	Upper	25.8	26.1	0.3		Deciduous broad leaf	Sm-Med	26.0	4103.0	3948.1
303	B	S	21	Lower	73.9	74.2	0.3		Deciduous broad leaf	Medium	74.1	4151.1	3994.9
304	B	S	21	Lower	132.9	133.2	0.3		Deciduous broad leaf (*Fagus*)	Large	133.1	4208.2	4052.1
305	A	S	01	Upper	47.2	47.7	0.5		Deciduous broad leaf	Medium	47.5	67.5	67.0
306	A	S	01	Upper	61.9	62.4	0.5		Deciduous broad leaf	Small	62.2	82.2	81.7
307	A	S	01	Lower	88.1	88.7	0.6		Evergreen broad leaf	Medium	88.4	108.4	107.9
308	A	S	01	Lower	116.2	116.6	0.4		Twig	Sm-Med	116.4	136.4	135.9
309	A	S	01	Lower	157.4	157.9	0.5		Deciduous broad leaf	Medium	157.7	177.7	176.7
310	D	S	01	Upper	56.4	57.1	0.7		Evergreen broad leaf	Large	56.8	177.6	176.6
311	D	S	01	Upper	70.6	71.1	0.5		Bud skin?	Medium	70.9	191.7	190.7
312	D	S	01	Upper	90.8	91.2	0.4		Twig	Large	91.0	211.8	204.3
313	D	S	01	Lower	113.0	113.2	0.2		Evergreen broad leaf	Small	113.1	233.9	226.4
314	D	S	01	Lower	156.8	157.3	0.5		Deciduous broad leaf	Very small	157.1	278.4	270.9
315	A	S	02	Lower	93.2	93.5	0.3		Evergreen broad leaf	Medium	93.4	321.7	314.2
316	A	S	02	Lower	140.4	140.9	0.5		Evergreen broad leaf	Large	140.7	369.0	361.0
317	A	S	02	Lower	177.5	177.9	0.4		Evergreen broad leaf	Large	177.7	406.3	398.3
318	D	S	02	Lower	105.5	105.9	0.4		Evergreen broad leaf	Sm-Med	105.7	428.4	420.4
319	D	S	02	Lower	117.0	117.3	0.3		Evergreen broad leaf	Medium	117.2	439.9	430.9
320	D	S	02	Lower	138.7	139.0	0.3		Evergreen broad leaf	Small	138.9	461.6	452.6
321	D	S	02	Lower	161.9	162.1	0.2		Evergreen broad leaf	Large	162.0	484.7	475.2
322	D	S	02	Lower	178.7	178.9	0.2		Evergreen broad leaf	Medium	178.8	500.4	489.9
323	A	S	03	Lower	108.0	108.6	0.6		Evergreen broad leaf	Sm-Med	108.3	535.0	524.5
324	A	S	03	Lower	134.1	134.3	0.2		Deciduous broad leaf	Small	134.2	560.9	549.4
325	A	S	03	Lower	152.4	152.6	0.2		Evergreen broad leaf	Medium	152.5	579.4	567.9
326	A	S	03	Lower	168.9	169.1	0.2		Deciduous broad leaf	Sm-Med	169.0	596.0	584.5
327	B	S	09	Lower	177.4	177.4	0.0		Deciduous broad leaf	Small	177.4	1886.9	1844.3
328	A	S	15	Upper	14.5	15.2	0.7		Deciduous broad leaf	Medium	14.9	2697.8	2582.3
329	A	S	15	Upper	59.3	59.4	0.1		Deciduous broad leaf	Medium	59.3	2743.4	2627.9
330	A	S	15	Upper	68.5	69.0	0.5		Deciduous broad leaf	Medium	68.7	2752.8	2637.3
331	A	S	15	Upper	43.9	44.4	0.5		Deciduous broad leaf	Small	44.1	2728.2	2612.7

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
332	A	S	15	Upper	43.9	44.4	0.5	From edge of core; potential contamination?	Wood	Large	44.2	2728.3	2612.7
333	A	S	15	Upper	76.3	76.8	0.5		Deciduous broad leaf	Small	76.6	2760.7	2645.1
334	A	S	15	Upper	37.4	37.8	0.4		Deciduous broad leaf	Small	37.6	2722.2	2606.7
335	A	S	15	Upper	15.1	15.6	0.5		Conifer needle	Small	15.4	2698.3	2582.8
336	B	S	18	Lower	116.4	116.8	0.4		Deciduous broad leaf	Sm-Med	116.6	3562.5	3423.4
337	B	S	18	Lower	100.6	101.0	0.4		Deciduous broad leaf	Medium	100.8	3546.7	3408.6
338	B	S	18	Lower	112.1	112.6	0.5		Conifer leaf (*Juniperus* ?)	Small	112.4	3558.3	3419.1
339	B	S	10	Lower	73.1	73.3	0.2		Deciduous broad leaf	Medium	73.2	2007.2	1955.9
340	B	S	10	Lower	98.7	99.3	0.6		Deciduous broad leaf	Very small	99.0	2033.0	1981.2
341	B	S	10	Lower	124.9	125.1	0.2	≈1.5 cm above sample #988 & #1015	Deciduous broad leaf	Med-Lg	125.0	2059.6	2006.8
342	B	S	10	Lower	144.8	145.2	0.4		Bud skin?	Small	145.0	2079.7	2022.9
343	B	S	10	Lower	138.1	138.6	0.5		Conifer twig?	Medium	138.4	2073.2	2016.4
344	A	S	13	Upper	30.1	30.3	0.2	Same as sample #686	Leaf	Very small	30.2	2407.2	2335.7
345	A	S	13	Upper	5.6	5.9	0.3	≈1.5 cm below sample #682	Deciduous broad leaf	Medium	5.8	2380.5	2309.1
346	A	S	13	Upper	44.5	44.9	0.4		Deciduous broad leaf	Small	44.7	2421.6	2350.2
347	A	S	13	Upper	62.5	63.0	0.5		Bark	Small	62.8	2440.5	2369.1
348	A	S	13	Upper	51.4	51.8	0.4		Deciduous broad leaf	Medium	51.6	2428.9	2357.4
349	A	S	13	Upper	25.9	26.2	0.3		Conifer needle?	Sm-Med	26.0	2402.9	2331.5
350	A	S	13	Lower	109.9	110.2	0.3		Deciduous broad leaf	Med-Lg	110.0	2488.4	2417.0
351	A	S	13	Lower	162.3	162.6	0.3		Deciduous broad leaf	Medium	162.5	2541.2	2467.3
352	A	S	13	Lower	133.4	133.7	0.3	Same as sample #702	Deciduous broad leaf	Small	133.6	2512.2	2438.7
353	A	S	13	Lower	102.8	103.2	0.4	Same as sample #698	Deciduous broad leaf	Small	103.0	2481.3	2409.9
354	C	S	15	n/a	84.2	84.4	0.2		Deciduous broad leaf	Med-Lg	84.3	3593.9	3452.3
355	C	S	15	n/a	17.9	18.3	0.4		Deciduous broad leaf	Sm-Med	18.1	3525.3	3387.2
356	B	S	12	Upper	48.1	48.5	0.4	Same as sample #794	Deciduous broad leaf	Very small	48.3	2400.9	2329.5
357	B	S	12	Upper	49.2	49.6	0.4	≈5 mm above samples #791 & #806	Deciduous broad leaf	Very small	49.4	2402.0	2330.5
358	B	S	12	Upper	54.4	54.9	0.5	Same as samples #212 & #800	Deciduous broad leaf	Med-Lg	54.7	2407.3	2335.8

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
359	B	S	12	Lower	92.6	92.9	0.3	Same as sample #807	Deciduous broad leaf	Med-Lg	92.8	2445.4	2373.9
360	B	S	12	Lower	90.9	91.2	0.3	Same as sample #803	Deciduous broad leaf	Medium	91.1	2443.7	2372.2
361	B	S	12	Lower	77.1	77.4	0.3		Deciduous broad leaf	Small	77.3	2429.9	2358.4
362	B	S	12	Lower	96.0	96.3	0.3		Deciduous broad leaf	Small	96.1	2448.7	2377.3
363	C	N	09	n/a	73.9	74.3	0.4		Deciduous broad leaf	Medium	74.1	1860.7	1818.1
364	C	N	09	n/a	26.7	28.0	1.3	Slightly diagonally orientated	Deciduous broad leaf	Med-Lg	27.4	1814.6	1773.0
365	C	N	09	n/a	41.6	42.0	0.4		Deciduous broad leaf	Med-Lg	41.8	1828.7	1787.1
366	B	N	13	Upper	21.6	22.0	0.4	Same as sample #818	Deciduous broad leaf	Med-Lg	21.8	2535.7	2461.8
367	B	N	13	Upper	15.5	15.9	0.4		Deciduous broad leaf	Sm-Med	15.7	2529.6	2456.2
368	B	N	13	Upper	12.4	12.8	0.4		Deciduous broad leaf	Large	12.6	2526.5	2453.1
369	C	S	17	n/a	63.6	64.0	0.4		Decidous broad leaf & conifer needle	Small	63.8	4109.2	3954.4
370	C	S	17	n/a	20.4	20.7	0.3		Deciduous broad leaf	Medium	20.6	4066.0	3911.1
371	C	S	17	n/a	49.9	50.3	0.4	Same depth as sample #373	Deciduous broad leaf	Medium	50.1	4095.5	3940.6
372	C	S	17	n/a	2.2	2.6	0.4	From upper 5cm of core section, but section looks intact (horizontal laminae)	Deciduous broad leaf	Large	2.4	4047.8	3893.0
373	C	S	17	n/a	49.9	50.3	0.4	Same depth as sample #371	Conifer needle	Small	50.1	4095.5	3940.6
374	C	S	17	n/a	14.7	15.2	0.5		Deciduous broad leaf	Medium	14.9	4060.3	3905.5
375	C	S	17	n/a	35.2	35.6	0.4		Deciduous broad leaf	Medium	35.4	4080.8	3926.0
376	C	S	17	n/a	78.3	78.7	0.4		Deciduous broad leaf	Medium	78.5	4123.7	3968.9
377	B	S	20	Lower	98.8	99.2	0.4		Deciduous broad leaf	Small	99.0	3964.9	3810.0
378	B	S	20	Lower	156.7	157.1	0.4	Same as sample #945	Deciduous broad leaf	Very small	156.9	4022.2	3867.4
379	B	S	20	Lower	68.2	68.6	0.4	Same as sample #922	Deciduous broad leaf	Medium	68.4	3934.3	3779.4
380	B	S	20	Lower	141.1	141.6	0.5		Deciduous broad leaf	Very small	141.3	4007.2	3852.4
381	C	N	08	n/a	48.7	49.1	0.4		Deciduous broad leaf	Large	48.9	1043.6	1024.3
382	C	N	08	n/a	81.5	81.9	0.4		Deciduous broad leaf	Medium	81.7	1077.5	1055.3
383	C	N	08	n/a	68.2	68.6	0.4		Deciduous broad leaf	Med-Lg	68.4	1063.4	1041.1
384	C	N	08	n/a	34.5	34.9	0.4	Same depth as sample #385	Deciduous broad leaf	Medium	34.7	1029.2	1010.0
385	C	N	08	n/a	34.5	34.9	0.4	Same depth as sample #384	Seed case?	Small	34.7	1029.2	1010.0
386	C	N	08	n/a	53.6	54.1	0.5		Deciduous broad leaf	Small	53.8	1048.4	1029.2

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
387	C	N	08	n/a	21.9	22.3	0.4		Deciduous broad leaf	Medium	22.1	1016.2	998.5
388	C	N	08	n/a	76.1	76.4	0.3		Deciduous broad leaf	Small	76.2	1071.7	1049.5
389	C	S	02	n/a	63.8	64.3	0.5		Deciduous broad leaf	Large	64.0	263.4	255.9
390	C	S	02	n/a	19.5	20.1	0.6		Evergreen broad leaf?	Large	19.8	222.5	215.0
391	C	S	16	n/a	37.2	37.5	0.3	Same as sample #771	Deciduous broad leaf	Small	37.4	3749.4	3599.6
392	C	S	16	n/a	46.2	46.6	0.4	Same as sample #772	Deciduous broad leaf	Medium	46.4	3758.3	3608.5
393	C	S	16	n/a	74.2	74.6	0.4	Same as samples #763 & #773	Deciduous broad leaf	Very small	74.4	3785.3	3635.5
394	C	N	11	n/a	87.7	88.1	0.4	Same as sample #1024	Deciduous broad leaf	Large	87.9	2845.5	2726.3
395	C	N	11	n/a	58.0	58.4	0.4	Same depth as samples #396 & #1068	Deciduous broad leaf	Small	58.2	2816.3	2697.9
396	C	N	11	n/a	58.0	58.4	0.4	Same depth as samples #395 & #1068	Small stem	Small	58.2	2816.3	2697.9
397	C	N	11	n/a	42.3	42.6	0.3	Same as sample #1075	Deciduous broad leaf	Large	42.5	2800.8	2684.2
398	C	N	11	n/a	21.4	22.0	0.6	Different from sample #400; from within flood layer	Deciduous broad leaf vein network	Small	21.7	2780.9	2664.8
399	C	N	11	n/a	69.8	70.2	0.4	Same as sample #1077	Deciduous broad leaf	Small	70.0	2827.9	2709.5
400	C	N	11	n/a	21.2	21.5	0.3	Different from sample #398; from within flood layer	Deciduous broad leaf	Very small	21.4	2780.5	2664.5
401	C	N	11	n/a	30.2	30.5	0.3		Deciduous broad leaf	Very small	30.3	2789.1	2673.1
402	C	N	11	n/a	36.0	36.3	0.3	Same as sample #1074	Deciduous broad leaf	Medium	36.2	2794.7	2678.6
403	A	N	20	n/a	43.6	43.9	0.3		Deciduous broad leaf	Small	43.7	3828.8	3679.0
404	A	N	08	Lower	186.9	187.3	0.4		Deciduous broad leaf	Small	187.1	1522.8	1488.7
405	A	N	09	Upper	62.4	62.6	0.2		Deciduous broad leaf	Small	62.5	1604.3	1569.8
406	A	N	08	Lower	130.3	130.7	0.4		Deciduous broad leaf	Very small	130.5	1466.2	1432.7
407	A	N	08	Lower	172.4	172.8	0.4		Deciduous broad leaf	Small	172.6	1508.3	1474.2
408	A	N	09	Upper	28.9	29.8	0.9		Wood; bark?	Large	29.3	1570.7	1536.6
409	B	N	09	Upper	26.8	27.2	0.4		Wood	Large	27.0	1737.0	1695.4
410	A	N	09	Upper	41.0	41.3	0.4		Deciduous broad leaf	Small	41.2	1583.0	1548.9
411	C	S	13	n/a	13.9	14.3	0.4	Same as sample #412 & #484	Deciduous broad leaf	Very small	15.0	3222.8	3091.0
412	C	S	13	n/a	14.8	15.2	0.4	Same as sample #411 & #484	Deciduous broad leaf	Medium	15.0	3222.8	3091.0
413	C	S	13	n/a	16.8	17.2	0.4		Deciduous broad leaf	Small	17.0	3224.9	3093.1

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
414	C	S	13	n/a	37.4	37.6	0.2		Insect wing? Bud skin?	Small	37.5	3246.1	3114.3
415	B	N	16	Upper	24.9	25.2	0.3	Same as sample #1018	Deciduous broad leaf	Medium	25.0	3011.2	2891.9
416	B	N	16	Upper	54.2	54.5	0.3		Deciduous broad leaf	Med-Lg	54.3	3040.9	2920.7
417	B	N	16	Upper	89.9	90.1	0.2		Conifer needle	Small	90.0	3076.6	2956.3
418	B	N	16	Upper	77.6	77.9	0.3		Deciduous broad leaf	Small	77.7	3064.3	2944.1
419	B	N	16	Upper	2.4	2.7	0.3	From upper 5 cm of core section	Deciduous broad leaf	Small	2.6	2991.1	2871.9
420	B	N	16	Upper	49.7	50.0	0.3	Same as sample #1020	Deciduous broad leaf	Very small	49.8	3036.4	2916.7
421	B	N	16	Upper	58.9	59.2	0.3		Deciduous broad leaf	Small	59.0	3045.6	2925.4
422	B	N	16	Upper	31.1	31.3	0.2	Same as sample #1023	stem (of deciduous broad leaf?)	Small	31.2	3017.5	2898.2
423	B	N	16	Upper	4.5	4.8	0.3	From upper 5 cm of core section	Decidous broad leaf (& stem)	Small	4.7	2992.9	2873.7
424	B	N	16	Upper	47.0	47.3	0.3	Same as sample #1019	Deciduous broad leaf	Small	47.1	3033.7	2914.5
425	B	N	16	Upper	20.6	20.8	0.2	Same as dated sample #1009	Deciduous broad leaf	Medium	20.7	3006.7	2887.5
426	C	N	14	n/a	27.5	27.9	0.4	Same as sample #261	Deciduous broad leaf	Very small	27.7	3347.4	3213.3
427	C	N	07	n/a	39.1	39.4	0.3		Deciduous broad leaf	Small	39.2	939.7	924.7
428	C	N	07	n/a	56.1	56.4	0.3		Deciduous broad leaf	Med-Lg	56.3	957.1	942.1
429	C	N	07	n/a	59.6	59.8	0.2		Evergreen broad leaf	Medium	59.7	960.5	945.5
430	C	N	07	n/a	43.5	43.9	0.4		Evergreen broad leaf	Small	43.7	944.2	929.3
431	C	N	07	n/a	49.6	49.9	0.3		Deciduous broad leaf?	Very small	49.7	950.4	935.4
432	C	N	07	n/a	23.7	24.0	0.3		Evergreen broad leaf	Large	23.8	924.0	909.1
433	C	N	07	n/a	88.7	88.9	0.2		Deciduous broad leaf	Large	88.8	990.3	972.5
434	C	N	07	n/a	77.6	78.0	0.4		Deciduous broad leaf	Small	77.8	979.1	961.3
435	C	N	07	n/a	82.2	82.6	0.4		Evergreen broad leaf	Medium	82.4	983.8	966.0
436	A	S	07	Lower	167.8	168.1	0.3		Deciduous broad leaf	Small	167.9	1308.5	1277.9
437	A	S	07	Lower	153.2	153.5	0.3	From within turbidite layer A-07-17	Deciduous broad leaf	Medium	153.3	1293.9	1267.6
438	A	S	07	Lower	120.0	120.3	0.3		Deciduous broad leaf	Medium	120.2	1260.8	1238.0
439	A	S	07	Lower	88.6	88.9	0.3	Same as sample #869	Deciduous broad leaf	Medium	88.7	1229.3	1207.1

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
440	A	S	07	Lower	132.7	132.9	0.2		Non-leaf	Very small	132.8	1273.4	1250.1
441	A	S	07	Lower	92.8	93.1	0.3		Deciduous broad leaf	Medium	93.0	1233.6	1211.3
442	A	S	07	Upper	67.2	67.4	0.2	Same as sample #870	Deciduous broad leaf	Small	67.3	1207.9	1185.6
443	A	S	07	Upper	65.8	66.1	0.3		Deciduous broad leaf	Small	66.0	1206.5	1184.3
444	A	S	07	Upper	57.7	58.0	0.3	Same as sample #877	Deciduous broad leaf vein network	Sm-Med	57.9	1198.0	1175.7
445	A	S	07	Upper	27.1	27.3	0.2		Deciduous broad leaf	Small	27.2	1166.6	1144.3
446	A	S	07	Upper	5.0	5.3	0.3		Deciduous broad leaf	Medium	5.1	1144.0	1121.7
447	A	S	07	Upper	39.9	40.2	0.3		Deciduous broad leaf	Medium	40.1	1179.7	1157.4
448	A	S	07	Upper	13.0	13.3	0.3		Deciduous broad leaf	Small	13.1	1151.5	1129.2
449	A	S	11	Upper	44.5	44.7	0.2		Deciduous broad leaf	Sm-Med	44.6	2012.5	1960.7
450	A	S	11	Upper	7.7	8.0	0.3	Same as sample #1080	Deciduous broad leaf	Very small	7.9	1975.3	1925.5
451	A	S	11	Upper	36.2	36.5	0.3	From same depth as sample #452	Deciduous broad leaf	Sm-med	36.4	2004.2	1954.4
452	A	S	11	Upper	36.2	36.5	0.3	From same depth as sample #451	Conifer needle	Small	36.4	2004.2	1954.4
453	A	S	11	Upper	39.6	39.9	0.3		Deciduous broad leaf	Sm-med	39.7	2007.6	1956.3
454	B	N	15	Upper	22.9	23.2	0.3	Same as sample #1090	Deciduous broad leaf	Small	23.0	2862.8	2743.6
455	B	N	15	Upper	21.4	21.7	0.3	Same as sample #905	Deciduous broad leaf	Small	21.5	2861.3	2742.1
456	B	N	15	Upper	64.9	65.2	0.3		Deciduous broad leaf	Medium	65.1	2904.9	2785.6
457	B	N	15	Upper	9.9	10.3	0.4		Deciduous broad leaf	Small	10.1	2849.9	2730.7
458	B	N	15	Upper	29.6	29.9	0.3	Same as sample #1092	Deciduous broad leaf	Small	29.7	2869.5	2750.3
459	B	N	15	Upper	86.8	87.1	0.3	Same as sample #911	Deciduous broad leaf	Medium	86.9	2926.7	2807.5
460	B	N	15	Upper	77.6	77.9	0.3		Conifer needle	Small	77.7	2917.5	2798.3
461	B	N	15	Upper	58.8	59.0	0.2	Same as sample #908	Deciduous broad leaf	Small	58.9	2898.7	2779.5
462	B	N	15	Upper	44.0	44.4	0.4	Same as sample #1086	Deciduous broad leaf	Small	44.2	2884.0	2764.8
463	B	N	15	Upper	88.0	88.3	0.3		Deciduous broad leaf	Med-Lg	88.1	2927.9	2808.7
464	B	N	15	Upper	27.2	27.4	0.2	≈2 mm below sample #1082	Conifer needle	Small	27.3	2867.1	2747.8
465	B	N	15	Upper	2.7	3.0	0.3	From upper 5 cm of core section	Deciduous broad leaf	Large	2.8	2842.5	2724.1
466	B	N	15	Upper	56.3	56.5	0.2		Deciduous broad leaf	Small	56.4	2896.2	2777.0
467	B	N	16	Lower	130.7	131.0	0.3		Deciduous broad leaf	Small	130.9	3117.5	2986.1

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
468	B	N	16	Lower	159.5	159.8	0.3		Deciduous broad leaf	Medium	159.7	3146.3	3014.9
469	B	N	16	Lower	163.3	163.7	0.4		Deciduous broad leaf	Small	163.5	3150.1	3018.8
470	A	S	22b	n/a	60.6	60.9	0.3		Deciduous broad leaf	Sm-Med	60.7	4212.7	4056.6
471	A	S	22b	n/a	49.2	49.5	0.3		Deciduous broad leaf	Small	49.3	4201.3	4045.2
472	A	S	22b	n/a	46.4	46.8	0.4		Deciduous broad leaf	Medium	46.6	4198.6	4042.4
473	A	S	22b	n/a	28.8	29.1	0.3		Deciduous broad leaf	Med-Lg	28.9	4180.9	4024.8
474	A	S	22b	n/a	22.5	22.8	0.3		Deciduous broad leaf	Medium	22.6	4174.6	4018.5
475	A	S	22b	n/a	69.9	70.2	0.3		Decidous broad leaf (& bud skin?)	Sm-Med	70.0	4222.0	4065.9
476	A	S	22b	n/a	16.4	16.7	0.3		Deciduous broad leaf	Small	16.5	4168.5	4012.4
477	B	S	04	Lower	114.7	115.0	0.3		Evergreen broad leaf	Large	114.9	858.1	844.1
478	B	S	04	Lower	65.8	66.2	0.4	Same as sample #784	Evergreen broad leaf	Med-Lg	66.0	809.2	795.2
479	B	S	04	Lower	57.5	57.7	0.2		Evergreen broad leaf	Medium	57.6	800.8	786.8
480	B	S	04	Lower	96.6	96.8	0.2	Same as sample #778	Evergreen broad leaf	Small	96.7	839.9	826.0
481	B	S	04	Lower	135.9	136.2	0.3		Evergreen broad leaf	Med-Lg	136.0	879.2	865.3
482	B	S	04	Lower	126.0	126.3	0.3	'Wiggles' across laminae	Deciduous broad leaf	Small	126.1	869.3	855.4
483	B	S	04	Lower	129.7	129.9	0.2		Deciduous broad leaf	Very small	129.8	873.0	859.1
484	C	N	13	n/a	14.1	14.4	0.3	Same as sample #411 & #412	Deciduous broad leaf	Small	14.2	3221.9	3090.1
485	B	S	04	Upper	46.9	47.2	0.3		Evergreen broad leaf	Small	47.1	790.3	776.3
486	B	S	04	Upper	9.3	9.5	0.2		Deciduous broad leaf	Med-Lg	9.4	753.0	739.0
487	B	S	04	Upper	35.3	35.5	0.2		Evergreen broad leaf	Large	35.4	778.6	764.6
488	B	S	04	Upper	18.0	18.2	0.2		Evergreen broad leaf	Large	18.1	761.8	747.8
489	D	S	02	Lower	179.1	179.8	0.7		Evergreen broad leaf	Medium	179.5	500.9	490.4
490	D	S	02	Lower	173.9	174.1	0.2		Deciduous broad leaf	Large	174.0	496.8	486.8
491	D	S	02	Lower	120.9	121.2	0.3		Evergreen broad leaf & stem	Medium	121.0	443.7	434.7
492	D	S	02	Lower	154.7	154.9	0.2		Deciduous broad leaf	Small	154.8	477.5	468.5
493	D	S	02	Lower	125.9	127.5	1.6	Vertically orientated; cuts across whole of stated depth range	Evergreen broad leaf & stem	Medium	126.7	449.4	440.4
494	A	S	20	n/a	33.9	34.5	0.6		Deciduous broad leaf (& stem?)	Small	34.2	3819.3	3669.5

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
495	A	S	20	n/a	50.3	50.7	0.4		Deciduous broad leaf	Small	50.5	3835.6	3685.8
496	A	S	20	n/a	85.6	86.0	0.4		Deciduous broad leaf	Small	85.8	3870.9	3718.2
497	A	S	20	n/a	33.6	34.0	0.4		Deciduous broad leaf	Small	33.8	3818.9	3669.1
498	D	S	03	Upper	86.0	86.2	0.2		Evergreen broad leaf	Sm-Med	86.1	619.0	607.5
499	D	S	03	Upper	69.8	70.2	0.4		Evergreen broad leaf	Sm-Med	70.0	602.9	591.4
500	D	S	03	Upper	59.3	59.5	0.2		Evergreen broad leaf	Sm-Med	59.4	592.3	580.8
501	D	S	03	Upper	49.1	49.3	0.2		Evergreen broad leaf	Small	49.2	582.1	570.6
502	D	S	03	Upper	40.5	40.8	0.3		Evergreen broad leaf	Small	40.7	573.6	562.1
503	D	S	03	Upper	27.8	28.7	0.9	Slightly diagonally orientated, covering whole of stated range	Evergreen broad leaf	Large	28.2	561.3	549.8
504	D	S	03	Upper	15.4	15.7	0.3		Evergreen broad leaf	Small	15.6	548.9	537.4
505	A	S	10	Lower	118.5	118.8	0.3		Deciduous broad leaf	Small	118.7	1870.2	1827.5
506	A	S	10	Lower	153.8	154.0	0.2		Deciduous broad leaf	Small	153.9	1905.4	1862.8
507	A	S	10	Lower	132.7	133.1	0.4	Two distinct entities ≈1 mm apart; one with stem	Two deciduous broad leaves (& stem)	Medium	132.9	1884.4	1841.7
508	D	S	03	Lower	182.0	182.5	0.5		Bark	Medium	182.3	713.5	701.0
509	D	S	03	Lower	173.0	173.2	0.2	Two distinct leaves ≈1 mm apart	Two deciduous broad leaves	Sm-Med	173.1	705.0	692.5
510	D	S	03	Lower	167.2	167.5	0.3		Evergreen broad leaf	Small	167.3	699.6	687.1
511	D	S	03	Lower	134.8	135.1	0.3		Evergreen broad leaf	Med-Lg	135.0	667.9	655.9
512	D	S	03	Lower	124.4	124.7	0.3		Evergreen broad leaf	Large	124.6	657.5	645.5
513	D	S	03	Lower	120.3	120.6	0.3		Evergreen broad leaf	Large	120.5	653.4	641.4
514	D	S	03	Lower	98.7	98.9	0.2		Evergreen broad leaf	Med-Lg	98.8	631.7	620.2
515	D	S	03	Lower	176.7	177.0	0.3		Deciduous broad leaf	Small	176.8	708.4	695.9
516	D	S	03	Lower	121.8	122.1	0.3		Evergreen broad leaf	Large	121.9	654.8	642.8
517	B	S	10	Upper	37.7	37.9	0.2		Bud case?	Sm-Med	37.8	1971.8	1922.4
518	B	S	10	Upper	2.8	3.2	0.4	Same as sample #1113; from upper 5 cm of core section	Deciduous broad leaf	Very small	3.0	1937.0	1893.9
519	B	S	10	Upper	0.0	0.0	0.0		Non-leaf	Very small	54.1	1988.1	1938.3
520	A	S	14	n/a	83.4	83.7	0.3		Deciduous broad leaf & stem	Sm-Med	83.6	2656.0	2541.0

Appendix 10 (continued):

SG06 sample ID (#)	Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
521	B	S	14	n/a	94.8	95.4	0.6	Same as sample #890	Deciduous broad leaf	Medium	95.1	2737.5	2622.0
522	B	S	14	n/a	88.3	88.6	0.3		Bark	Medium	88.4	2730.8	2615.3
523	B	S	14	n/a	81.0	81.3	0.3	From same depth as sample #527, though separate entity	Deciduous broad leaf	Small	81.2	2723.6	2608.0
524	B	S	14	n/a	45.2	45.6	0.4		Twig?	Small	45.4	2687.8	2572.3
525	B	S	14	n/a	12.1	12.3	0.2		Deciduous broad leaf	Small	12.2	2654.6	2539.6
526	B	S	14	n/a	56.4	56.6	0.2		Deciduous broad leaf	Very small	56.5	2698.9	2583.3
527	B	S	14	n/a	80.8	81.3	0.5	From same depth as sample #523, though separate entity	Deciduous broad leaf	Small	81.1	2723.5	2607.9
528	D	S	02	Upper	70.0	70.4	0.4		Deciduous broad leaf	Medium	70.2	392.9	384.9
529	D	S	02	Upper	64.5	64.8	0.3		Deciduous broad leaf	Large	64.6	387.3	379.3
530	D	S	02	Upper	41.4	41.7	0.3		Evergreen broad leaf & stem	Med-Lg	41.5	363.6	355.6
531	D	S	02	Upper	38.7	38.9	0.2		Deciduous broad leaf	Very small	38.8	360.7	352.7
532	D	S	02	Upper	27.5	27.7	0.2		Evergreen broad leaf	Small	27.6	349.1	341.1
533	D	S	01	Upper	11.4	11.6	0.2		Twig	Small	11.5	131.9	131.4
534	D	S	01	Lower	131.0	131.2	0.2		Deciduous broad leaf	Very small	131.1	251.9	244.4
535	D	S	01	Lower	108.2	109.1	0.9		Deciduous broad leaf & twig	Sm-Med	108.6	229.4	221.9
536	A	S	09	Upper	82.5	82.7	0.2		Deciduous broad leaf	Large	82.6	1624.0	1588.9
537	A	S	09	Upper	71.0	71.3	0.3		Deciduous broad leaf	Large	71.1	1612.7	1578.2
538	A	S	09	Upper	60.5	60.8	0.3		Deciduous broad leaf	Med-Lg	60.6	1602.5	1568.0
539	A	S	09	Upper	52.9	53.2	0.3		Deciduous broad leaf	Medium	53.1	1595.1	1560.6
540	A	S	09	Upper	41.3	41.6	0.3		Deciduous broad leaf	Sm-Med	41.4	1583.3	1549.2
541	A	S	09	Upper	32.7	33.0	0.3	From same depth as sample #543, though separate entity	Deciduous broad leaf	Sm-Med	32.9	1574.3	1540.2
542	A	S	09	Upper	31.3	31.7	0.4		Deciduous broad leaf	Small	31.5	1572.8	1538.8
543	A	S	09	Upper	32.7	33.0	0.3	From same depth as sample #541, though separate entity	Deciduous broad leaf	Medium	32.9	1574.3	1540.2
544	A	S	09	Lower	193.9	194.2	0.3		Deciduous broad leaf	Med-Lg	194.0	1735.4	1693.8

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
545	A	S	09	Lower	119.4	119.7	0.3		Deciduous broad leaf (incl. stem)	Med-Lg	119.6	1661.0	1620.4
546	A	S	09	Lower	192.2	192.6	0.4		Deciduous broad leaf	Medium	192.4	1733.8	1692.2
547	A	S	09	Lower	106.6	106.9	0.3		Deciduous broad leaf	Small	106.7	1648.1	1607.5
548	A	S	09	Lower	172.5	172.8	0.3	From same depth as sample #549	Deciduous broad leaf	Med-Lg	172.6	1714.0	1672.9
549	A	S	09	Lower	172.5	172.8	0.3	From same depth as sample #548	Twig	Large	172.6	1714.0	1672.9
550	A	S	09	Lower	188.3	188.5	0.2		Deciduous broad leaf	Sm-Med	188.4	1729.8	1688.1
551	A	S	09	Lower	115.2	115.5	0.3		Deciduous broad leaf	Small	115.4	1656.8	1616.1
552	A	S	09	Lower	149.7	150.0	0.3		Deciduous broad leaf	Small	149.8	1691.2	1650.1
553	A	S	09	Lower	191.1	191.3	0.2		Deciduous broad leaf	Medium	191.2	1732.6	1691.0
554	A	S	02	Upper	22.9	24.1	1.2		Evergreen broad leaf	Large	23.5	251.8	244.3
555	A	S	02	Upper	25.0	25.4	0.4		Evergreen broad leaf	Small	25.2	253.5	246.0
556	A	S	02	Upper	78.7	79.0	0.3		Evergreen broad leaf	Large	78.9	307.2	299.7
557	A	S	02	Upper	35.4	35.8	0.4		Deciduous broad leaf	Medium	35.6	263.9	256.4
558	A	S	02	Upper	46.4	46.7	0.3		Deciduous broad leaf	Very small	46.5	274.8	267.3
559	A	S	02	Upper	70.4	70.6	0.2		Evergreen broad leaf	Small	70.5	298.8	291.3
560	A	S	02	Lower	94.6	94.9	0.3		Evergreen broad leaf	Medium	94.8	323.1	315.6
561	A	S	02	Lower	97.6	99.0	1.4		Evergreen broad leaf	Large	98.3	326.6	318.6
562	A	S	02	Lower	170.1	170.3	0.2		Deciduous broad leaf	Large	170.2	399.0	391.0
563	A	S	02	Lower	173.5	174.0	0.5		Evergreen broad leaf	Sm-Med	173.8	402.5	394.5
564	A	S	02	Lower	164.6	165.9	1.3		Evergreen broad leaf	Sm-Med	165.3	394.0	386.0
565	A	S	02	Lower	166.0	166.2	0.2		Deciduous broad leaf	Small	166.1	395.0	387.0
566	A	S	02	Lower	134.2	134.5	0.3		Deciduous broad leaf	Med-Lg	134.4	362.7	354.7
567	B	S	09	Upper	29.9	30.1	0.2		Deciduous broad leaf	Sm-Med	30.0	1740.0	1698.4
568	B	S	09	Upper	78.3	78.6	0.3		Deciduous broad leaf	Small	78.5	1788.5	1746.8
569	B	S	09	Upper	35.7	36.5	0.8		Deciduous broad leaf	Sm-Med	36.1	1746.1	1704.5
570	B	S	09	Upper	45.6	45.8	0.2		Deciduous broad leaf	Very small	45.7	1755.7	1714.1
571	B	S	09	Upper	68.2	68.4	0.2		Deciduous broad leaf	Medium	68.3	1778.3	1736.7
572	B	S	09	Upper	38.7	39.0	0.3		Deciduous broad leaf	Small	38.8	1748.8	1707.2
573	B	S	09	Upper	51.1	51.4	0.3		Deciduous broad leaf	Small	51.2	1761.2	1719.6
574	B	S	09	Lower	186.3	186.6	0.3		Deciduous broad leaf	Very small	186.4	1896.3	1853.7

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
575	A	S	11	Lower	90.2	90.5	0.3		Deciduous broad leaf	Medium	90.4	2058.3	2005.4
576	A	S	11	Lower	114.0	114.3	0.3		Deciduous broad leaf	Large	114.1	2082.0	2025.3
577	A	S	11	Lower	174.6	175.0	0.4	Same as sample #883	Deciduous broad leaf	Small	174.8	2142.7	2085.5
578	A	S	11	Lower	182.2	182.6	0.4	Same as sample #882	Deciduous broad leaf	Small	182.4	2150.3	2092.5
579	A	S	11	Lower	182.2	182.6	0.4	From same depth as samples #578 & #882	Conifer needle	Small	182.4	2150.3	2092.5
580	A	S	11	Lower	164.0	164.3	0.3		Deciduous broad leaf	Small	164.1	2132.0	2074.8
581	C	S	03	n/a	35.4	35.8	0.4		Evergreen broad leaf	Med-Lg	35.6	337.0	329.0
582	C	S	03	n/a	41.9	42.2	0.3		Evergreen broad leaf	Medium	42.1	343.3	335.3
583	C	S	03	n/a	43.3	43.5	0.2		Evergreen broad leaf	Large	43.4	344.6	336.6
584	C	S	03	n/a	70.2	70.5	0.3		Deciduous broad leaf	Med-Lg	70.4	370.6	362.6
585	C	S	03	n/a	81.1	81.3	0.2		Deciduous broad leaf	Very small	81.2	381.0	373.0
586	C	S	03	n/a	22.4	22.6	0.2		Deciduous broad leaf	Very small	22.5	324.5	317.0
587	C	S	05	n/a	14.4	14.6	0.2		Deciduous broad leaf	Small	14.5	517.7	507.2
588	C	S	05	n/a	15.2	15.5	0.3		Deciduous broad leaf	Very small	15.4	518.6	508.1
589	C	S	05	n/a	32.6	32.8	0.2		Evergreen broad leaf	Large	32.7	534.7	524.2
590	C	S	05	n/a	66.5	66.9	0.4		Deciduous broad leaf	Small	66.7	566.8	555.3
591	C	S	05	n/a	79.8	80.0	0.2		Evergreen broad leaf	Sm-Med	79.9	580.4	568.9
592	C	S	05	n/a	39.6	39.9	0.3		Deciduous broad leaf	Large	39.7	541.3	529.8
593	C	S	05	n/a	31.0	31.6	0.6		Deciduous broad leaf	Small	31.3	533.4	522.9
594	C	S	05	n/a	57.3	57.7	0.4		Deciduous broad leaf	Very small	57.5	558.1	546.6
595	B	S	11	Upper	8.2	8.3	0.1		Twig	Large	8.2	2137.5	2080.3
596	A	S	12	Upper	7.0	7.3	0.3		Deciduous broad leaf	Sm-Med	7.1	2222.8	2165.0
597	A	S	12	Upper	12.3	12.6	0.3	Same as sample #612	Deciduous broad leaf	Small	12.5	2228.6	2170.4
598	A	S	12	Lower	100.7	101.2	0.5	Same as sample #207	Deciduous broad leaf	Small	101.0	2321.5	2252.6
599	A	S	12	Lower	80.3	80.5	0.2		Deciduous broad leaf	Small	80.4	2300.9	2232.6
600	A	S	12	Lower	72.9	73.2	0.3		Deciduous broad leaf	Very small	73.1	2293.6	2225.3
601	A	S	12	Lower	71.3	71.6	0.3		Deciduous broad leaf	Small	71.5	2292.0	2223.7
602	A	S	03	Upper	28.4	29.0	0.6		Deciduous broad leaf	Large	28.7	456.1	447.1
603	A	S	03	Upper	81.6	81.8	0.2		Evergreen broad leaf	Large	81.7	508.4	497.9
604	A	S	03	Lower	100.3	101.3	1.0		Evergreen broad leaf	Med-Lg	100.8	527.5	517.0

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
605	A	S	03	Lower	125.9	126.3	0.4		Deciduous broad leaf	Sm-Med	126.1	552.8	541.3
606	A	S	03	Lower	144.8	145.0	0.2		Evergreen broad leaf	Large	144.9	571.8	560.3
607	A	S	03	Lower	173.1	173.5	0.4		Deciduous broad leaf	Medium	173.3	600.3	588.8
608	A	S	03	Lower	174.8	175.1	0.3		Deciduous broad leaf	Large	175.0	602.1	590.6
609	A	S	03	Lower	186.5	187.0	0.5		Evergreen broad leaf	Medium	186.7	613.9	602.4
610	A	S	03	Lower	106.8	107.2	0.4		Deciduous broad leaf vein network	Large	107.0	533.7	523.2
611	A	S	01	Lower	114.7	115.0	0.3		Deciduous broad leaf	Med-Lg	114.9	134.9	134.4
612	A	N	12	Upper	12.1	12.6	0.5	Same as sample #597	Deciduous broad leaf	Small	12.3	2228.4	2170.2
613	A	N	12	Upper	5.5	5.8	0.3		Non-leaf	Small	5.6	2221.1	2163.4
614	A	N	12	Upper	21.9	22.2	0.3	From within turbidite layer A-12-01	Twig	Medium	22.1	2239.0	2177.9
615	A	N	12	Upper	28.8	29.1	0.3		Deciduous broad leaf	Very small	28.9	2246.4	2180.1
616	A	N	12	Upper	47.5	47.8	0.3	Same as samples #205, #1055 & #1060	Deciduous broad leaf	Small	47.7	2266.8	2199.0
617	A	N	12	Upper	65.5	65.7	0.2		Deciduous broad leaf	Small	65.6	2286.1	2217.7
618	A	N	12	Upper	83.1	83.5	0.4		Deciduous broad leaf	Very small	83.3	2303.8	2235.5
619	A	N	12	Upper	31.5	31.7	0.2		Conifer needle	Very small	31.6	2249.3	2183.0
620	A	N	12	Upper	46.7	47.1	0.4		Deciduous broad leaf	Very small	46.9	2265.9	2198.1
621	C	N	01	n/a	17.7	19.4	1.7		Deciduous broad leaf	Large	18.5	103.6	103.1
622	C	N	01	n/a	30.6	30.9	0.3		Deciduous broad leaf	Medium	30.8	113.8	113.3
623	C	N	01	n/a	76.3	76.6	0.3		Deciduous broad leaf	Sm-Med	76.4	152.0	151.5
624	C	S	02	n/a	70.1	70.5	0.4		Evergreen broad leaf	Medium	70.3	269.4	261.9
625	C	N	02	n/a	90.8	91.1	0.3		Fragile deciduous broad leaf & small twig	Medium	91.0	290.6	283.1
626	A	S	06	Lower	102.5	102.7	0.2		Deciduous broad leaf	Small	102.6	1028.9	1009.6
627	A	S	06	Lower	117.7	118.6	0.9	Two separate entities?	Deciduous broad leaf	Medium	118.1	1045.4	1026.1
628	A	S	06	Lower	134.1	134.4	0.3		Deciduous broad leaf & twig	Small	134.2	1061.8	1039.5
629	A	S	06	Lower	170.2	170.5	0.3		Evergreen broad leaf	Med-Lg	170.3	1097.9	1075.6
630	A	S	06	Lower	168.1	168.4	0.3		Evergreen broad leaf	Med-Lg	168.2	1095.8	1073.5
631	A	S	06	Lower	148.7	148.9	0.2		Deciduous broad leaf	Small	148.8	1076.4	1054.1

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
632	A	S	06	Lower	116.0	116.4	0.4		Deciduous broad leaf	Small	116.2	1043.3	1024.1
633	A	S	06	Lower	133.3	133.5	0.2		Deciduous broad leaf	Small	133.4	1061.0	1038.7
634	A	S	06	Lower	109.5	109.9	0.4		Deciduous broad leaf	Very small	109.7	1036.6	1017.4
635	A	S	06	Lower	127.4	127.7	0.3		Deciduous broad leaf	Med-Lg	127.6	1055.2	1033.9
636	A	S	06	Lower	152.9	153.2	0.3		Deciduous broad leaf	Small	153.0	1080.6	1058.3
637	C	N	08	n/a	11.5	11.7	0.2		Deciduous broad leaf	Small	11.6	1005.3	987.5
638	C	N	08	n/a	13.1	13.9	0.8		Evergreen broad leaf	Small	13.5	1007.3	989.6
639	C	N	08	n/a	19.4	19.6	0.2		Deciduous broad leaf	Medium	19.5	1013.6	995.9
640	C	N	08	n/a	24.5	25.0	0.5		Deciduous broad leaf	Medium	24.7	1019.0	1001.2
641	C	N	08	n/a	27.7	28.0	0.3		Evergreen broad leaf	Large	27.9	1022.3	1004.5
642	C	N	08	n/a	40.4	41.3	0.9		Deciduous broad leaf	Medium	40.8	1035.5	1016.2
643	C	N	08	n/a	70.9	71.3	0.4		Evergreen broad leaf	Med-Lg	71.1	1066.4	1044.1
644	C	N	08	n/a	75.6	75.9	0.3		Deciduous broad leaf	Large	75.7	1071.2	1049.0
645	C	S	17	n/a	29.7	30.0	0.3		Deciduous broad leaf	Medium	29.8	4075.2	3920.4
646	C	S	17	n/a	40.3	40.6	0.3		Deciduous broad leaf & stem	Sm-Med	40.4	4085.8	3931.0
647	C	S	17	n/a	52.1	52.4	0.3		Deciduous broad leaf (& grass blade?)	Small	52.3	4097.7	3942.9
648	C	S	17	n/a	60.1	60.4	0.3	≈4 mm below sample #652	Deciduous broad leaf	Small	60.2	4105.7	3950.9
649	C	S	17	n/a	67.4	67.8	0.4		Deciduous broad leaf	Small	67.6	4113.0	3958.2
650	C	S	17	n/a	72.1	72.6	0.5		Deciduous broad leaf	Small	72.3	4117.7	3962.9
651	C	S	17	n/a	81.0	81.3	0.3		Deciduous broad leaf	Sm-Med	81.1	4126.3	3971.4
652	C	S	17	n/a	59.8	60.1	0.3	≈4 mm above sample #648	Deciduous broad leaf stem & fragments	Medium	59.9	4105.4	3950.6
653	C	N	11	n/a	47.8	48.2	0.4		Deciduous broad leaf	Small	48.0	2806.1	2689.5
654	C	N	11	n/a	66.2	66.5	0.3		Deciduous broad leaf	Small	66.3	2824.3	2705.9
655	C	N	09	n/a	6.4	6.7	0.3		Deciduous broad leaf	Small	6.5	1793.2	1751.6
656	C	N	09	n/a	30.2	30.6	0.4		Deciduous broad leaf	Small	30.4	1817.6	1776.0
657	C	N	09	n/a	58.7	59.1	0.4		Deciduous broad leaf fragments & vein network	Medium	58.9	1845.8	1804.2

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
658	A	S	08	Upper	13.5	13.8	0.3		Deciduous broad leaf	Medium	13.6	1345.1	1314.4
659	A	S	08	Upper	27.3	27.6	0.3		Deciduous broad leaf	Sm-Med	27.5	1361.4	1330.3
660	A	S	08	Upper	93.5	93.8	0.3		Deciduous broad leaf	Sm-Med	93.6	1429.0	1397.9
661	B	N	13	Upper	18.4	18.9	0.5		Deciduous broad leaf	Medium	18.6	2532.5	2459.1
662	B	N	13	Upper	37.4	37.6	0.2		Conifer needle	Small	37.5	2551.4	2477.4
663	B	N	13	Upper	33.1	33.3	0.2	Same as sample #220	Deciduous broad leaf	Small	33.2	2547.1	2473.1
664	A	S	19	n/a	50.9	51.3	0.4		Deciduous broad leaf	Medium	51.1	3638.1	3496.5
665	A	S	19	n/a	32.6	33.0	0.4		Leaf?	Sm-Med	32.8	3619.8	3478.2
666	A	S	19	n/a	11.9	12.3	0.4		Deciduous broad leaf	Sm-Med	12.1	3598.8	3457.2
667	A	S	19	n/a	8.4	8.7	0.3	≈3 mm below sample #278	stem (of dec. broad leaf?)	Small	8.5	3595.0	3453.4
668	A	S	19	n/a	48.5	48.8	0.3	Same as sample #279	Deciduous broad leaf	Large	48.6	3635.6	3494.0
669	A	N	19	n/a	48.4	48.7	0.3		Deciduous broad leaf	Sm-Med	48.5	3635.5	3493.9
670	A	N	19	n/a	67.6	67.9	0.3		Deciduous broad leaf	Very small	67.7	3654.7	3508.2
671	A	N	19	n/a	92.0	92.3	0.3		Deciduous broad leaf	Small	92.1	3679.1	3532.6
672	A	N	19	n/a	42.8	43.1	0.3		Deciduous broad leaf	Small	42.9	3629.9	3488.3
673	B	S	19	Lower	127.3	127.6	0.3		Deciduous broad leaf	Small	127.4	3772.8	3623.0
674	B	N	19	Upper	35.5	35.8	0.3	Same as sample #285	Deciduous broad leaf	Very small	35.6	3681.0	3534.5
675	B	N	19	Upper	12.1	12.4	0.3	Same as sample #283	Deciduous broad leaf	Sm-Med	12.2	3656.4	3509.9
676	B	N	19	Upper	84.6	84.9	0.3		Deciduous broad leaf	Small	84.8	3730.2	3580.4
677	B	N	19	Upper	27.0	27.3	0.3	Same as sample #284	Deciduous broad leaf	Very small	27.1	3672.0	3525.5
678	B	N	19	Upper	54.4	54.8	0.4	Same as sample #286	*Juniperus* ?	Very small	54.6	3700.0	3553.5
679	D	N	01	Upper	62.3	62.6	0.3		Deciduous broad leaf	Small	62.5	183.3	182.3
680	D	N	01	Upper	91.1	91.3	0.2		Deciduous broad leaf	Very small	91.2	212.0	204.5
681	A	S	13	Upper	71.5	71.8	0.3		Deciduous broad leaf	Medium	71.6	2449.5	2378.0
682	A	S	13	Upper	4.1	4.5	0.4	From upper 5 cm of core section, though strata seemingly intact; ≈1.5 cm above sample #345	Deciduous broad leaf	Small	4.3	2378.6	2307.2
683	A	S	13	Upper	37.4	37.8	0.4		Deciduous broad leaf	Very small	37.6	2414.7	2343.3
684	A	S	13	Upper	21.0	21.4	0.4		Bark?	Small	21.2	2398.1	2326.6
685	A	N	13	Upper	64.7	65.0	0.3		Deciduous broad leaf	Medium	64.8	2442.6	2371.2

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
686	A	N	13	Upper	30.0	30.3	0.3	Same as sample #344	Deciduous broad leaf	Sm-Med	30.2	2407.2	2335.7
687	A	N	13	Upper	30.8	31.1	0.3	≈7 mm below sample #344 & #686	Bark?	Medium	30.9	2407.9	2336.5
688	A	S	13	Lower	104.2	104.7	0.5	Same as sample #707	Deciduous broad leaf	Very small	104.5	2482.8	2411.4
689	A	S	13	Lower	158.9	159.2	0.3	Same as sample #701	Deciduous broad leaf	Medium	159.0	2537.7	2463.7
690	A	S	13	Lower	181.7	182.1	0.4	Same as sample #700	Deciduous broad leaf	Sm-Med	181.9	2560.9	2487.0
691	A	S	13	Lower	112.3	112.6	0.3	Same as sample #703	Deciduous broad leaf	Medium	112.5	2490.9	2419.5
692	A	S	13	Lower	175.9	176.2	0.3		Deciduous broad leaf	Small	176.1	2555.0	2481.1
693	A	S	13	Lower	180.9	181.2	0.3		Deciduous broad leaf	Small	181.1	2560.1	2486.2
694	A	S	13	Lower	97.9	98.2	0.3		Deciduous broad leaf	Sm-Med	98.0	2476.2	2404.8
695	A	S	13	Lower	152.2	152.5	0.3		Deciduous broad leaf	Sm-Med	152.4	2531.0	2457.6
696	A	N	01	Upper	21.8	22.3	0.5		Evergreen broad leaf	Large	22.0	42.0	42.0
697	A	N	01	Lower	145.2	145.6	0.4		Leaf fragment	Very small	145.4	165.4	164.9
698	A	N	13	Lower	102.8	103.1	0.3	Same as sample #353	Deciduous broad leaf	Sm-Med	102.9	2481.2	2409.8
699	A	N	13	Lower	144.7	145.0	0.3	≈6 mm below sample #705	Deciduous broad leaf	Medium	144.9	2523.5	2450.0
700	A	N	13	Lower	182.1	182.4	0.3	Same as sample #690	Deciduous broad leaf	Sm-Med	182.2	2561.3	2487.4
701	A	N	13	Lower	158.9	159.2	0.3	Same as sample #689	Deciduous broad leaf	Med-Lg	159.0	2537.7	2463.7
702	A	N	13	Lower	133.6	133.9	0.3	Same as sample #352	Deciduous broad leaf	Sm-Med	133.7	2512.3	2438.9
703	A	N	13	Lower	112.5	112.9	0.4	Same as sample #691	Deciduous broad leaf	Sm-Med	112.7	2491.1	2419.7
704	A	N	13	Lower	150.5	150.8	0.3		Stem tip?	Small	150.6	2529.2	2455.8
705	A	N	13	Lower	144.0	144.4	0.4	≈6 mm above sample #699	Deciduous broad leaf	Small	144.2	2522.8	2449.4
706	A	N	13	Lower	127.1	127.4	0.3		Stem	Medium	127.3	2505.9	2432.4
707	A	N	13	Lower	104.3	104.8	0.5	Same as sample #688	Deciduous broad leaf	Very small	104.5	2482.8	2411.4
708	A	N	13	Lower	115.6	115.9	0.3		Stem	Sm-Med	115.8	2494.2	2422.8
709	A	S	15	Upper	73.3	73.6	0.3		Deciduous broad leaf	Medium	73.4	2757.5	2642.0
710	A	S	15	Upper	32.7	33.0	0.3		Deciduous broad leaf	Sm-Med	32.9	2717.1	2601.6
711	A	S	15	Upper	40.7	41.0	0.3		Deciduous broad leaf	Sm-Med	40.9	2725.0	2609.4
712	A	S	15	Upper	71.5	71.9	0.4		Stem fragments	Small	71.7	2755.8	2640.2
713	A	S	15	Lower	131.1	131.4	0.3		Stem	Sm-Med	131.3	2815.4	2696.9
714	A	S	15	Lower	113.4	113.7	0.3		Deciduous broad leaf	Sm-Med	113.5	2797.6	2681.6

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
715	A	S	15	Lower	142.2	142.5	0.3	Two separate entities, ≈2 mm apart	Deciduous broad leaf	Small	142.4	2826.5	2708.0
716	A	S	15	Lower	169.5	169.8	0.3		Deciduous broad leaf	Small	169.6	2853.7	2734.5
717	A	S	15	Lower	105.6	105.9	0.3	Two separate entities	Deciduous broad leaf & twig	Medium	105.7	2789.8	2673.8
718	A	S	15	Lower	121.8	122.2	0.4		Deciduous broad leaf	Sm-Med	122.0	2806.1	2689.6
719	A	S	15	Lower	145.4	145.7	0.3		Deciduous broad leaf	Sm-Med	145.6	2829.7	2711.2
720	A	S	15	Lower	175.4	175.7	0.3		Deciduous broad leaf vein network	Sm-Med	175.6	2859.7	2740.4
721	A	S	15	Lower	113.9	114.2	0.3	Two separate entities	Deciduous broad leaf	Small	114.1	2798.2	2682.1
722	A	S	15	Lower	153.5	154.0	0.5		Deciduous broad leaf	Very small	153.8	2837.9	2719.4
723	A	S	15	Lower	91.0	91.3	0.3		Non-leaf	Very small	91.1	2775.2	2659.7
724	A	S	15	Lower	166.5	167.0	0.5		Deciduous broad leaf (& insect fragment?)	Sm-Med	166.8	2850.9	2731.6
725	A	S	15	Lower	106.6	107.0	0.4	≈1.1 cm below sample #717	Non-leaf	Small	106.8	2790.9	2674.9
726	A	S	15	Lower	85.8	86.1	0.3	≈8 mm above sample #226	Deciduous broad leaf	Sm-Med	85.9	2770.0	2654.5
727	A	S	16	Upper	10.7	11.0	0.3		Deciduous broad leaf	Medium	10.9	2923.8	2804.6
728	A	S	16	Upper	24.9	25.2	0.3		Deciduous broad leaf	Medium	25.0	2938.5	2819.3
729	A	S	16	Upper	28.5	28.8	0.3		Deciduous broad leaf	Sm-Med	28.6	2942.3	2823.0
730	A	S	16	Upper	31.3	31.7	0.4		Deciduous broad leaf	Medium	31.5	2945.3	2826.0
731	A	S	16	Upper	35.3	35.7	0.4		Deciduous broad leaf	Medium	35.5	2949.3	2830.1
732	A	S	16	Upper	39.0	39.3	0.3		Deciduous broad leaf	Small	39.1	2952.9	2833.7
733	A	S	16	Upper	51.4	51.7	0.3	Same as sample #736	Deciduous broad leaf	Medium	51.5	2965.3	2846.1
734	A	S	16	Upper	21.9	22.3	0.4		Deciduous broad leaf stem fragnent	Very small	22.1	2935.4	2816.2
735	A	S	16	Lower	61.8	62.1	0.3		Deciduous broad leaf	Very small	61.9	2975.7	2856.5
736	A	S	16	Lower	51.4	51.7	0.3	Same as sample #733	Deciduous broad leaf	Medium	51.5	2965.3	2846.1
737	A	S	16	Lower	79.7	80.1	0.4		Deciduous broad leaf	Small	79.9	2993.7	2874.5
738	A	S	16	Lower	126.5	127.0	0.5	From top of flood layer	Deciduous broad leaf	Small	126.7	3040.2	2920.0
739	A	S	16	Lower	141.2	141.6	0.4		Deciduous broad leaf	Small	141.4	3054.4	2934.2
740	A	S	16	Lower	69.1	69.4	0.3		Deciduous broad leaf	Medium	69.3	2983.1	2863.8

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
741	A	N	17	Upper	71.1	71.5	0.4	Same as sample #250	Deciduous broad leaf	Small	71.3	3226.8	3095.0
742	A	N	17	Upper	81.9	82.1	0.2	Same as sample #251 & #1048	Deciduous broad leaf	Small	82.0	3237.5	3105.6
743	A	N	17	Upper	18.3	18.6	0.3	Same as samples #247 & #1047	Deciduous broad leaf	Small	18.5	3174.0	3042.1
744	A	N	17	Upper	35.4	35.7	0.3		Deciduous broad leaf	Sm-Med	35.5	3191.0	3059.2
745	A	N	17	Upper	69.3	69.6	0.3		Deciduous broad leaf	Very small	69.4	3224.9	3093.1
746	C	S	15	n/a	53.7	54.1	0.4		Bark?	Large	53.9	3562.5	3423.4
747	C	S	15	n/a	33.6	33.9	0.3	Same as sample #751	Twig	Large	33.7	3541.8	3403.7
748	C	S	15	n/a	3.9	4.2	0.3	From upper 5 cm of core section, though laminae seemingly intact	Deciduous broad leaf	Small	4.0	3510.5	3372.4
749	C	S	15	n/a	63.2	63.5	0.3		Deciduous broad leaf	Small	63.4	3572.7	3432.1
750	C	S	15	n/a	56.6	57.0	0.4		Conifer needle	Small	56.8	3565.5	3426.4
751	C	N	15	n/a	32.8	33.3	0.5	Same as sample #747	Twig fragments	Small	33.0	3541.1	3402.9
752	C	N	15	n/a	48.3	48.7	0.4		Deciduous broad leaf	Sm-Med	48.5	3557.0	3417.9
753	C	N	15	n/a	16.6	17.0	0.4		Bark	Medium	16.8	3523.9	3385.8
754	C	N	15	n/a	17.9	18.2	0.3		Deciduous broad leaf	Small	18.0	3525.2	3387.1
755	C	N	15	n/a	83.8	84.3	0.5		Deciduous broad leaf	Small	84.1	3593.7	3452.1
756	C	N	15	n/a	37.5	37.8	0.3		Non-leaf	Very small	37.6	3545.9	3407.8
757	C	N	15	n/a	62.7	62.9	0.2		Conifer needle	Very small	62.8	3572.1	3431.4
758	C	S	16	n/a	63.9	64.2	0.3	Same as sample #769	Deciduous broad leaf	Sm-Med	64.1	3775.4	3625.6
759	C	S	16	n/a	44.6	45.0	0.4	Same as sample #774	Deciduous broad leaf	Sm-Med	44.8	3756.7	3606.9
760	C	S	16	n/a	11.6	12.0	0.4	From same depth as samples #761 & #768	Seed	Small	11.8	3724.2	3574.4
761	C	S	16	n/a	11.6	12.0	0.4	From same depth as sample #760; same as sample #768	Deciduous broad leaf	Small	11.8	3724.2	3574.4
762	C	S	16	n/a	15.7	15.9	0.2	Same as sample #776	Deciduous broad leaf	Med-Lg	15.8	3728.1	3578.3
763	C	S	16	n/a	74.2	74.6	0.4	Same as sample #393 & #773	Deciduous broad leaf stem & vein network	Medium	74.4	3785.3	3635.5
764	C	S	16	n/a	30.8	31.2	0.4		Bark?	Small	31.0	3743.2	3593.4
765	C	S	16	n/a	67.6	67.8	0.2		Deciduous broad leaf	Very small	67.7	3778.9	3629.1
766	C	S	16	n/a	33.7	34.0	0.3	Same as sample #770	Deciduous broad leaf	Very small	33.8	3745.9	3596.1
767	C	N	16	n/a	77.0	77.3	0.3		Deciduous broad leaf	Small	77.1	3787.9	3638.1

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
768	C	N	16	n/a	11.5	11.8	0.3	From same depth as sample #760; same as sample #761	Deciduous broad leaf	Very small	11.7	3724.1	3574.3
769	C	N	16	n/a	64.1	64.4	0.3	Same as sample #758	Deciduous broad leaf	Small	64.2	3775.6	3625.8
770	C	N	16	n/a	33.7	34.0	0.3	Same as sample #766	Deciduous broad leaf	Sm-Med	33.8	3745.9	3596.1
771	C	N	16	n/a	37.2	37.5	0.3	Same as sample #391	Deciduous broad leaf	Small	37.3	3749.4	3599.6
772	C	N	16	n/a	46.3	46.6	0.3	Same as sample #392	Deciduous broad leaf	Small	46.5	3758.3	3608.5
773	C	N	16	n/a	74.4	74.8	0.4	Same as samples #393 & #763	Deciduous broad leaf stem & vein network	Small	74.6	3785.5	3635.6
774	C	N	16	n/a	44.6	45.0	0.4	Same as sample #759	Deciduous broad leaf	Small	44.8	3756.7	3606.9
775	C	N	16	n/a	15.5	15.7	0.2	≈1.5 mm above samples #762 & #776	Deciduous broad leaf	Very small	15.6	3727.9	3578.1
776	C	N	16	n/a	15.6	15.9	0.3	Same as sample #762	Deciduous broad leaf	Small	15.7	3728.0	3578.2
777	B	N	04	Upper	77.3	77.6	0.3		Evergreen broad leaf	Large	77.4	820.6	806.7
778	B	N	04	Upper	96.3	96.7	0.4	Same as sample #480	Evergreen broad leaf	Large	96.5	839.7	825.7
779	B	N	04	Upper	24.2	24.6	0.4		Deciduous broad leaf	Medium	24.4	768.1	754.1
780	B	N	04	Upper	29.4	29.7	0.3		Evergreen broad leaf	Med-Lg	29.5	773.0	759.0
781	B	N	04	Upper	31.8	32.1	0.3	Immediately overlying tephra layer B-04-03b	Deciduous broad leaf	Small	31.9	775.2	761.2
782	B	N	04	Upper	36.7	37.0	0.3		Evergreen broad leaf	Medium	36.8	780.0	766.1
783	B	N	04	Upper	48.4	49.4	1.0	Same as sample #023	Twig fragment	Large	48.9	792.1	778.1
784	B	N	04	Upper	65.7	66.0	0.3	Same as sample #478	Deciduous broad leaf	Medium	65.9	809.1	795.1
785	B	N	04	Upper	67.1	67.5	0.4		Evergreen broad leaf	Large	67.3	810.5	796.5
786	B	N	04	Upper	4.6	4.9	0.3	From upper 5 cm of core section, though laminae seemingly intact	Deciduous broad leaf	Medium	4.7	748.3	734.8
787	B	N	04	Upper	13.0	13.3	0.3		Deciduous broad leaf	Sm-Med	13.2	756.8	742.8
788	B	N	04	Upper	20.3	20.6	0.3		Evergreen broad leaf	Sm-Med	20.5	764.1	750.2
789	B	N	04	Upper	18.6	18.9	0.3		Deciduous broad leaf	Medium	18.8	762.4	748.5
790	B	N	04	Upper	94.1	94.6	0.5		Deciduous broad leaf	Sm-Med	94.4	837.6	823.6
791	B	S	12	Upper	49.7	50.0	0.3	Same as sample #806	Deciduous broad leaf	Medium	49.8	2402.4	2331.0
792	B	S	12	Upper	19.6	19.9	0.3		Conifer needle	Small	19.7	2372.3	2301.4
793	B	S	12	Upper	27.9	28.2	0.3		Stem fragments	Small	28.0	2380.6	2309.2

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
794	B	S	12	Upper	48.2	48.5	0.3	Same as sample #356	Deciduous broad leaf	Very small	48.3	2400.9	2329.5
795	B	N	12	Upper	85.0	85.3	0.3		Deciduous broad leaf	Med-Lg	85.1	2437.7	2366.3
796	B	N	12	Upper	44.6	44.9	0.3		Deciduous broad leaf	Medium	44.8	2397.4	2325.9
797	B	N	12	Upper	74.3	74.6	0.3		Deciduous broad leaf	Sm-Med	74.4	2427.0	2355.6
798	B	N	12	Upper	17.7	18.1	0.4		Bark	Sm-Med	17.9	2370.5	2299.6
799	B	N	12	Upper	95.0	95.3	0.3	Same as samples #215 & #995	Deciduous broad leaf	Medium	95.2	2447.8	2376.4
800	B	N	12	Upper	54.2	54.5	0.3	Same as samples #212 & #358	Deciduous broad leaf	Med-Lg	54.3	2406.9	2335.5
801	B	N	12	Upper	65.7	66.0	0.3		Deciduous broad leaf & stem fragments	Medium	65.8	2418.4	2347.0
802	B	N	12	Upper	38.8	39.1	0.3		Bark	Sm-Med	39.0	2391.6	2320.1
803	B	N	12	Upper	90.7	91.1	0.4	Same as sample #360	Deciduous broad leaf	Sm-Med	90.9	2443.5	2372.0
804	B	N	12	Upper	5.4	5.8	0.4		Twig fragment	Medium	5.6	2358.2	2287.3
805	B	N	12	Upper	16.1	16.5	0.4		Deciduous broad leaf	Medium	16.3	2368.9	2298.0
806	B	N	12	Upper	49.5	49.8	0.3	Same as sample #791	Deciduous broad leaf	Medium	49.6	2402.2	2330.8
807	B	N	12	Upper	92.6	92.8	0.2	Same as sample #359	Deciduous broad leaf	Small	92.7	2445.3	2373.9
808	B	N	12	Upper	59.7	60.2	0.5		Non-leaf	Very small	60.0	2412.6	2341.2
809	B	N	12	Upper	11.1	11.4	0.3		Conifer needle	Very small	11.3	2363.9	2293.0
810	B	N	13	Upper	19.7	20.0	0.3	Immediately overlying tephra layer B-13-02; same as sample #817	Deciduous broad leaf	Medium	19.8	2533.7	2460.3
811	B	N	13	Upper	95.4	95.7	0.3		Conifer needle tip	Very small	95.5	2609.4	2528.3
812	B	N	13	Upper	44.2	44.5	0.3		Non-leaf	Very small	44.3	2558.2	2484.3
813	B	S	13	Lower	14.6	14.9	0.3		Deciduous broad leaf	Sm-Med	14.8	2528.7	2455.2
814	B	S	13	Lower	9.8	10.2	0.4		Deciduous broad leaf	Medium	10.0	2523.9	2450.5
815	B	S	13	Lower	15.8	16.2	0.4	Same as sample #367	Deciduous broad leaf	Sm-Med	16.0	2529.9	2456.4
816	B	S	13	Lower	18.1	18.6	0.5		Deciduous broad leaf	Small	18.3	2532.2	2458.8
817	B	S	13	Lower	19.8	20.0	0.2	Immediately overlying tephra layer B-13-02; same as sample #810	Deciduous broad leaf	Medium	19.9	2533.8	2460.4
818	B	S	13	Lower	21.7	22.0	0.3	Same as sample #366	Deciduous broad leaf	Medium	21.8	2535.7	2461.8
819	B	S	13	Lower	42.3	42.7	0.4		Deciduous broad leaf	Medium	42.5	2556.4	2482.5
820	B	N	13	Upper	40.0	40.3	0.3		Deciduous broad leaf	Small	40.2	2554.1	2480.1

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
821	B	N	10	Upper	4.7	5.3	0.6	From upper 5 cm of core section, though laminae seemingly intact	Deciduous broad leaf	Medium	5.0	1939.0	1895.8
822	B	N	10	Upper	65.3	65.6	0.3		Deciduous broad leaf	Med-Lg	65.4	1999.4	1949.6
823	B	N	10	Upper	89.8	90.1	0.3		Deciduous broad leaf	Sm-Med	90.0	2024.0	1972.1
824	B	N	10	Upper	79.1	79.4	0.3		Deciduous broad leaf	Medium	79.3	2013.3	1961.4
825	B	N	10	Upper	44.9	45.2	0.3	Same as samples #1107 & #1116; from within flood layer	Stem fragments	Sm-Med	45.0	1979.0	1929.2
826	B	N	10	Upper	0.0	0.4	0.4		Bark	Large	0.2	1934.2	1891.1
827	B	N	09	Upper	50.7	51.0	0.3		Deciduous broad leaf	Sm-Med	50.8	1760.8	1719.2
828	B	N	09	Upper	75.8	76.2	0.4		Deciduous broad leaf	Sm-Med	76.0	1786.0	1744.4
829	B	N	09	Upper	83.9	84.2	0.3		Deciduous broad leaf	Large	84.1	1794.1	1752.5
830	B	N	09	Upper	19.5	19.9	0.4		Deciduous broad leaf fragments & stem fragments	Small	19.7	1729.7	1688.1
831	B	N	09	Upper	34.1	34.4	0.3		Deciduous broad leaf	Medium	34.3	1744.3	1702.6
832	B	N	09	Upper	92.0	92.4	0.4		Deciduous broad leaf	Small	92.2	1802.2	1760.6
833	B	N	09	Upper	97.6	98.1	0.5		Deciduous broad leaf	Very small	97.8	1807.8	1766.2
834	A	N	07	Lower	172.7	174.3	1.6		Deciduous broad leaf	Small	173.5	1314.1	1283.4
835	B	N	07	Upper	42.1	43.7	1.6		Deciduous broad leaf	Very small	42.9	1334.8	1304.1
836	A	N	09	Lower	133.2	134.8	1.6		Deciduous broad leaf	Very small	134.0	1675.4	1634.8
837	A	N	09	Lower	135.2	136.8	1.6		Deciduous broad leaf & stem fragments	Small	136.0	1677.4	1636.7
838	A	N	09	Lower	176.1	177.7	1.6		Deciduous broad leaf	Small	176.9	1718.3	1677.1
839	B	N	09	Upper	76.9	78.5	1.6		Deciduous broad leaf & stem fragments	Small	77.7	1787.7	1746.0
840	B	S	16	Lower	88.3	88.4	0.1		Deciduous broad leaf	Small	88.3	3074.9	2954.7
841	A	N	07	Lower	114.2	114.5	0.3		Deciduous broad leaf	Small	114.3	1254.9	1232.1
842	A	N	07	Lower	133.6	133.9	0.3		Deciduous broad leaf	Sm-Med	133.7	1274.3	1251.0
843	A	N	07	Lower	147.9	148.4	0.5		Deciduous broad leaf	Sm-Med	148.2	1288.8	1263.6
844	A	N	07	Lower	187.9	188.3	0.4	Same depth as sample #845	Deciduous broad leaf	Very small	188.1	1268.7	1245.4
845	A	N	07	Lower	187.9	188.3	0.4	Same depth as sample #844	Conifer needle	Small	188.1	1268.7	1245.4

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
846	A	N	07	Lower	128.4	128.7	0.3	≈3 mm below samples #844 & #845	Deciduous broad leaf	Sm-Med	128.6	1269.2	1245.9
847	A	N	07	Lower	118.8	119.2	0.4	≈4 mm above sample #848	Deciduous broad leaf	Medium	119.0	1259.6	1236.8
848	A	N	07	Lower	119.3	119.7	0.4	≈4 mm below sample #847	Deciduous broad leaf	Med-Lg	119.5	1260.1	1237.3
849	A	N	07	Lower	165.3	165.7	0.4		Conifer needle	Small	165.5	1306.1	1275.4
850	A	N	07	Lower	167.6	168.0	0.4		Bark?	Small	167.8	1308.4	1277.7
851	A	N	10	Lower	166.2	166.5	0.3		*Juniperus* ?	Small	166.3	1917.8	1875.2
852	A	N	10	Lower	149.3	149.6	0.3		Non-leaf	Very small	149.4	1900.9	1858.3
853	A	N	10	Lower	147.2	147.6	0.4	≈3 mm below sample #854	Deciduous broad leaf	Medium	147.4	1898.9	1856.3
854	A	N	10	Lower	147.0	147.3	0.3	≈3 mm above sample #853	Deciduous broad leaf	Medium	147.1	1898.6	1856.0
855	A	N	10	Lower	133.0	133.3	0.3		Deciduous broad leaf	Small	133.1	1884.6	1842.0
856	A	N	10	Lower	108.9	109.1	0.2		Deciduous broad leaf fragment	Small	109.0	1860.5	1817.9
857	A	N	10	Lower	180.8	181.2	0.4		Deciduous broad leaf	Very small	181.0	1932.5	1889.4
858	A	N	10	Lower	158.6	159.1	0.5		Deciduous broad leaf	Sm-Med	158.9	1910.4	1867.8
859	A	N	10	Lower	105.1	105.5	0.4		Deciduous broad leaf	Very small	105.3	1856.8	1814.2
860	B	S	18	Lower	150.3	150.7	0.4		Bark	Small	150.5	3596.4	3454.8
861	B	N	18	Lower	146.4	146.8	0.4		Twig fragment	Small	146.6	3592.5	3450.9
862	B	N	18	Lower	116.6	117.1	0.5		Bark fragment	Very small	116.8	3562.7	3423.6
863	B	N	18	Lower	130.8	131.3	0.5		Twig fragment	Very small	131.0	3576.9	3436.3
864	B	N	18	Lower	152.5	152.8	0.3		Twig fragments	Small	152.6	3598.5	3456.9
865	B	N	18	Lower	164.2	164.6	0.4		Deciduous broad leaf	Small	164.4	3610.3	3468.7
866	B	N	11	Lower	146.6	147.0	0.4		Twig	Sm-Med	146.8	2276.1	2208.3
867	B	N	11	Lower	160.0	160.3	0.3		Non-leaf	Very small	160.2	2289.1	2220.8
868	B	N	11	Lower	140.0	140.4	0.4		Deciduous broad leaf	Very small	140.2	2269.5	2201.7
869	A	N	07	Upper	88.5	88.9	0.5	Same as sample #439	Deciduous broad leaf	Medium	88.9	1229.5	1207.2
870	A	N	07	Upper	67.2	67.5	0.3	Same as sample #442	Deciduous broad leaf	Sm-Med	67.4	1208.0	1185.7
871	A	N	07	Upper	67.2	67.5	0.3	From same depth as samples #442 & #870	Conifer needle	Very small	67.4	1208.0	1185.7
872	A	N	07	Upper	91.5	91.9	0.4		Deciduous broad leaf	Sm-Med	91.7	1232.3	1210.1
873	A	N	07	Upper	52.5	52.8	0.3		Deciduous broad leaf	Small	52.7	1192.3	1170.0

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
874	A	N	07	Upper	36.5	36.8	0.3	Different from sample #876	Deciduous broad leaf fragment & stem	Sm-Med	36.6	1176.2	1153.9
875	A	N	07	Upper	30.5	30.8	0.3		Non-leaf	Small	30.7	1170.3	1148.0
876	A	N	07	Upper	36.6	36.8	0.2	From edge of core; different from sample #874	Stem	Small	36.7	1176.3	1154.0
877	A	N	07	Upper	57.7	58.0	0.3	Same as sample #444	Deciduous broad leaf	Med-Lg	57.9	1198.0	1175.7
878	A	N	07	Upper	84.4	84.9	0.5		Deciduous broad leaf	Sm-Med	84.6	1225.2	1203.0
879	A	N	11	Lower	136.5	136.8	0.3		Conifer needle	Small	136.6	2104.5	2047.8
880	A	N	11	Lower	156.3	156.7	0.4	Same as sample #199	Deciduous broad leaf	Sm-Med	156.5	2124.4	2067.6
881	A	N	11	Lower	167.9	168.3	0.4		Non-leaf	Very small	168.1	2136.0	2078.8
882	A	N	11	Lower	182.2	182.6	0.4	Same as sample #578	Deciduous broad leaf	Medium	182.4	2150.3	2092.6
883	A	N	11	Lower	174.5	175.1	0.6	Same as sample #577	Deciduous broad leaf	Medium	174.8	2142.7	2085.5
884	A	N	11	Lower	123.0	123.4	0.4		Deciduous broad leaf	Small	123.2	2091.1	2034.4
885	A	N	11	Lower	119.8	120.2	0.4		Deciduous broad leaf	Small	120.0	2087.9	2031.1
886	A	S	17	Upper	13.8	14.1	0.3	Same as sample #1046	Deciduous broad leaf	Small	14.0	3169.5	3037.6
887	A	S	17	Upper	3.6	4.0	0.4	From upper 5 cm of core section; laminae still parallel though	Deciduous broad leaf	Med-Lg	3.8	3159.3	3027.4
888	B	N	14	n/a	28.4	28.7	0.3	Same as sample #221	Deciduous broad leaf	Sm-Med	28.5	2670.9	2555.4
889	B	N	14	n/a	60.0	60.3	0.3		Deciduous broad leaf	Sm-Med	60.1	2702.5	2587.0
890	B	N	14	n/a	95.1	95.5	0.4	Same as sample #521	Deciduous broad leaf	Medium	95.3	2737.7	2622.2
891	B	N	14	n/a	80.5	80.8	0.3	Same as sample #527	Deciduous broad leaf	Medium	80.6	2723.0	2607.5
892	B	N	14	n/a	51.3	51.6	0.3		Deciduous broad leaf	Sm-Med	51.5	2693.9	2578.4
893	B	N	14	n/a	88.6	88.9	0.3	Two distinct entities	Two deciduous broad leaves	Sm-Med	88.8	2731.2	2615.6
894	B	N	14	n/a	40.8	41.0	0.2		Non-leaf	Very small	40.9	2683.3	2567.8
895	B	N	14	n/a	72.1	72.5	0.4		Non-leaf	Very small	72.3	2714.7	2599.2
896	B	N	14	n/a	63.4	63.7	0.3		Deciduous broad leaf	Sm-Med	63.5	2705.9	2590.4
897	B	N	14	n/a	86.7	87.1	0.4		Bark	Sm-Med	86.9	2729.3	2613.8
898	B	N	14	n/a	81.0	81.3	0.3	≈5 mm below samples #527 & #891	Deciduous broad leaf	Sm-Med	81.2	2723.6	2608.1

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
899	B	S	15	Upper	1.6	2.1	0.5	From upper 5 cm of core section	Deciduous broad leaf (incl. central vein)	Sm-Med	1.9	2841.5	2723.1
900	B	S	15	Upper	5.8	6.2	0.4	Same as sample #1084	Deciduous broad leaf	Sm-Med	6.0	2845.7	2726.5
901	B	N	15	Lower	101.8	102.2	0.4		Deciduous broad leaf	Sm-Med	102.0	2941.8	2822.6
902	B	N	15	Lower	108.8	109.6	0.8	Two separate entities, ≈1 to 2 mm apart	Deciduous broad leaf	Medium	109.2	2949.0	2829.8
903	B	S	15	Lower	12.2	12.5	0.3	~5 mm above sample #904	Deciduous broad leaf	Sm-Med	12.3	2852.1	2732.9
904	B	S	15	Lower	12.7	13.0	0.3	~5 mm below sample #903	Deciduous broad leaf	Sm-Med	12.9	2852.7	2733.4
905	B	S	15	Lower	21.5	21.8	0.3	Same as sample #455	Deciduous broad leaf	Sm-Med	21.6	2861.4	2742.2
906	B	S	15	Lower	56.0	56.3	0.3	≈6 mm above sample #907	Deciduous broad leaf	Sm-Med	56.1	2895.9	2776.7
907	B	S	15	Lower	56.6	56.9	0.3	≈6 mm below sample #906	Deciduous broad leaf	Small	56.8	2896.6	2777.3
908	B	S	15	Lower	59.0	59.3	0.3	Same as sample #461	Deciduous broad leaf	Medium	59.1	2898.9	2779.7
909	B	S	15	Lower	83.5	84.5	1.0	Same as sample #1089	Deciduous broad leaf	Small	84.0	2923.8	2804.6
910	B	S	15	Lower	86.4	86.7	0.3	≈5 mm above samples #459 & #911	Deciduous broad leaf	Sm-Med	86.6	2926.4	2807.1
911	B	S	15	Lower	86.9	87.2	0.3	Same as sample #459	Deciduous broad leaf	Sm-Med	87.1	2926.9	2807.6
912	B	S	15	Lower	91.5	91.8	0.3		Deciduous broad leaf	Large	91.6	2931.4	2812.2
913	B	S	15	Lower	17.8	18.1	0.3		Deciduous broad leaf	Sm-Med	17.9	2857.7	2738.5
914	B	S	15	Lower	53.3	53.7	0.4	Two separate entities, ≈2 mm apart	Deciduous broad leaf	Sm-Med	53.5	2893.3	2774.1
915	B	S	15	Lower	100.9	101.2	0.3		Deciduous broad leaf	Small	101.1	2940.9	2821.6
916	B	S	15	Lower	98.4	98.7	0.3		Deciduous broad leaf	Sm-Med	98.5	2938.3	2819.1
917	B	S	15	Lower	89.7	90.0	0.3		Deciduous broad leaf	Small	89.8	2929.6	2810.4
918	B	N	20	Upper	11.5	12.3	0.8		Bark	Small	11.9	3877.2	3724.5
919	B	N	20	Upper	27.7	28.0	0.3	From same depth as sample #920	Bark?	Small	27.8	3893.7	3738.9
920	B	N	20	Upper	27.7	28.0	0.3	From same depth as sample #919	Leaf fragments	Very small	27.8	3893.7	3738.9
921	B	N	20	Upper	54.5	54.8	0.3		Deciduous broad leaf	Medium	54.6	3920.5	3765.7
922	B	N	20	Upper	68.4	68.7	0.3	Same as sample #379	Deciduous broad leaf	Sm-Med	68.5	3934.4	3779.6
923	B	N	20	Upper	18.5	18.8	0.3		Deciduous broad leaf	Small	18.6	3884.5	3729.7

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
924	B	N	20	Upper	59.6	59.9	0.3		Deciduous broad leaf	Medium	59.8	3925.7	3770.8
925	B	N	20	Upper	9.1	9.4	0.3		Stem fragments	Very small	9.2	3874.2	3721.5
926	B	N	20	Upper	30.2	30.5	0.3		Non-leaf	Very small	30.3	3896.2	3741.4
927	B	N	20	Upper	41.0	41.3	0.3		Non-leaf	Very small	41.2	3907.1	3752.2
928	B	N	20	Upper	56.2	56.5	0.3		Non-leaf	Very small	56.3	3922.2	3767.4
929	B	S	20	Lower	111.8	112.2	0.4	Same as sample #939	Deciduous broad leaf	Medium	112.0	3977.9	3823.0
930	B	S	20	Lower	156.7	157.0	0.3		Deciduous broad leaf	Small	156.8	4022.1	3867.3
931	B	S	20	Lower	89.2	89.5	0.3		Deciduous broad leaf stem	Very small	89.3	3955.2	3800.4
932	B	S	20	Lower	157.9	158.2	0.3	Same as sample #949	Deciduous broad leaf (incl. central vein)	Medium	158.1	4023.4	3868.5
933	B	S	20	Lower	160.8	161.1	0.3		Deciduous broad leaf fragments	Small	161.0	4026.3	3871.4
934	B	S	20	Lower	74.6	74.9	0.3	From same depth as sample #935	Deciduous broad leaf	Medium	74.7	3940.6	3785.8
935	B	S	20	Lower	74.6	74.9	0.3	From same depth as sample #934	Bud case?	Small	74.7	3940.6	3785.8
936	B	S	20	Lower	85.3	85.6	0.3		Deciduous broad leaf	Small	85.4	3951.3	3796.5
937	B	S	20	Lower	113.4	113.7	0.3		Twig fragment	Very small	113.5	3979.4	3824.6
938	B	S	20	Lower	138.3	138.6	0.3	Same as sample #941	Deciduous broad leaf	Sm-Med	138.4	4004.3	3849.5
939	B	N	20	Lower	111.8	112.1	0.3	Same as sample #929	Deciduous broad leaf	Large	112.0	3977.9	3823.0
940	B	N	20	Lower	115.4	115.9	0.5		Deciduous broad leaf	Sm-Med	115.6	3981.5	3826.7
941	B	N	20	Lower	138.3	138.6	0.3	Same as sample #938	Non-leaf	Very small	138.4	4004.3	3849.5
942	B	N	20	Lower	140.9	141.1	0.2		Deciduous broad leaf	Small	141.0	4006.9	3852.1
943	B	N	20	Lower	145.5	146.3	0.8	Same as sample #296	Deciduous broad leaf	Sm-Med	145.9	4011.8	3856.9
944	B	N	20	Lower	150.5	150.8	0.3	≈2 varves above sample #950	Deciduous broad leaf	Large	150.6	4016.3	3861.4
945	B	N	20	Lower	156.7	157.2	0.5	Same as sample #378	Deciduous broad leaf	Very small	156.9	4022.2	3867.4
946	B	N	20	Lower	159.0	159.3	0.3		Deciduous broad leaf	Small	159.1	4024.4	3869.6
947	B	N	20	Lower	161.0	161.3	0.3	Two distinct entities	Deciduous broad leaf & stem, & twig fragments	Med-Lg	161.1	4026.4	3871.6
948	B	N	20	Lower	122.5	122.9	0.4		Deciduous broad leaf	Small	122.7	3988.6	3833.8
949	B	N	20	Lower	157.9	158.3	0.4	Same as sample #932	Deciduous broad leaf	Small	158.1	4023.4	3868.6

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
950	B	N	20	Lower	150.8	151.1	0.3	≈2 varves below sample #944	Deciduous broad leaf	Medium	150.9	4016.5	3861.7
951	B	S	40	n/a	26.7	27.0	0.3		Wood; bark?	Enormous	26.9	6591.7	6408.2
952	B	S	40	n/a	32.1	32.5	0.4		Bark?	Small	32.3	6597.1	6413.7
953	B	S	40	n/a	44.5	44.8	0.3		Bark	Medium	44.6	6609.4	6421.1
954	B	S	40	n/a	75.3	75.6	0.3		Leaf fragments	Very small	75.5	6639.7	6442.4
955	B	S	40	n/a	15.5	15.7	0.2		Bark	Large	15.6	6580.4	6397.0
956	B	S	40	n/a	68.9	69.2	0.3		Bark	Sm-Med	69.0	6633.8	6438.2
957	B	S	40	n/a	66.7	67.0	0.3		Deciduous broad leaf	Small	66.9	6631.7	6436.0
958	A	N	20	n/a	17.3	17.6	0.3		Deciduous broad leaf	Small	17.5	3802.8	3653.0
959	A	N	20	n/a	76.5	76.8	0.3		Deciduous broad leaf	Small	76.6	3861.7	3709.0
960	A	N	20	n/a	77.6	77.9	0.3		Non-leaf	Very small	77.8	3862.9	3710.1
961	A	N	20	n/a	34.4	34.8	0.4		Twig fragment	Small	34.6	3819.7	3669.8
962	A	N	20	n/a	11.6	11.9	0.3		Bark fragment	Small	11.8	3797.3	3647.5
963	B	N	11	Upper	9.9	10.3	0.4		Deciduous broad leaf	Small	10.1	2139.4	2082.2
964	B	N	11	Upper	23.5	23.8	0.3		Deciduous broad leaf	Small	23.6	2152.9	2095.2
965	B	N	11	Upper	57.4	57.7	0.3	Same as sample #196	Bark	Small	57.5	2186.8	2129.1
966	B	N	11	Upper	74.7	75.0	0.3	From same depth as sample #968	Deciduous broad leaf	Small	74.8	2204.1	2146.4
967	B	N	11	Upper	87.7	88.1	0.4		Deciduous broad leaf	Sm-Med	87.9	2217.2	2159.5
968	B	N	11	Upper	74.7	75.0	0.3	From same depth as sample #966	Conifer needle	Small	74.8	2204.1	2146.4
969	B	N	11	Upper	61.1	61.5	0.4	Same as sample #197	Deciduous broad leaf	Small	61.3	2190.6	2132.9
970	B	N	11	Upper	2.7	3.2	0.5	From upper 5 cm of core section	Deciduous broad leaf	Small	2.9	2132.2	2075.0
971	B	N	17	Upper	5.7	6.3	0.6		Deciduous broad leaf	Small	6.0	3272.7	3138.6
972	B	N	17	Upper	32.4	32.7	0.3	Same as samples #254 & #1171	Deciduous broad leaf & stem	Sm-Med	32.6	3299.6	3165.5
973	B	N	17	Upper	37.9	38.3	0.4	Same as samples #255 & #1166	Deciduous broad leaf	Sm-Med	38.1	3305.1	3171.0
974	B	N	17	Upper	80.8	81.2	0.4		Non-leaf	Very small	81.0	3348.0	3213.9
975	B	N	17	Upper	10.1	10.6	0.5		Deciduous broad leaf	Sm-Med	10.3	3277.1	3143.0
976	B	S	38	n/a	67.5	67.8	0.3	From same depth as sample #977	Broad leaf	Large	67.6	6444.2	6265.3
977	B	S	38	n/a	67.5	67.8	0.3	From same depth as sample #976	Conifer needle	Small	67.6	6444.2	6265.3
978	B	S	38	n/a	35.6	36.0	0.4		Broad leaf	Medium	35.8	6412.4	6235.7
979	B	S	38	n/a	43.6	43.9	0.3		Broad leaf	Small	43.7	6420.3	6242.8

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
980	B	S	38	n/a	76.0	76.3	0.3		Bark?	Sm-Med	76.1	6452.7	6271.3
981	B	N	18	Upper	21.0	21.3	0.3	Same as samples #272 & #1134	Deciduous broad leaf	Small	21.1	3467.0	3329.4
982	B	N	18	Upper	27.4	27.7	0.3		Deciduous broad leaf	Sm-Med	27.5	3473.4	3335.8
983	B	N	18	Upper	40.7	41.0	0.3	Same as sample #273	Deciduous broad leaf	Large	40.8	3486.7	3349.1
984	B	N	18	Upper	61.3	61.6	0.3	~5 mm below sample #274 & #986	Bark?	Small	61.4	3507.3	3369.2
985	B	N	18	Upper	91.6	91.9	0.3		Deciduous broad leaf stem	Small	91.8	3537.7	3399.6
986	B	N	18	Upper	60.8	61.1	0.3	Same as sample #274	Deciduous broad leaf	Sm-Med	60.9	3506.8	3368.7
987	B	N	18	Upper	9.4	9.7	0.3		Non-leaf	Small	9.6	3455.5	3317.9
988	B	S	10	Lower	126.4	126.7	0.3	Same as sample #1015	Deciduous broad leaf	Small	126.5	2061.2	2008.4
989	B	S	10	Lower	118.9	119.2	0.3	Same as samples #189 & #1012	Deciduous broad leaf	Medium	119.0	2053.5	2000.7
990	B	S	10	Lower	129.8	130.2	0.4	Same as samples #190 & #1016	Deciduous broad leaf	Small	130.0	2064.8	2012.0
991	B	S	10	Lower	140.2	140.5	0.3	Same as sample #1013	Deciduous broad leaf (incl. central vein)	Sm-Med	140.4	2075.1	2018.4
992	B	S	10	Lower	156.5	157.1	0.6		Deciduous broad leaf	Small	156.8	2091.3	2034.6
993	B	S	12	Lower	125.0	125.5	0.5	Same as sample #1002	Bark (& some leaf material)	Med-Lg	125.3	2477.9	2406.4
994	B	S	12	Lower	93.1	93.5	0.4	≈5 mm below samples #359 & #807	Deciduous broad leaf	Sm-Med	93.3	2445.9	2374.5
995	B	S	12	Lower	95.3	95.5	0.2	Same as sample #215 & #799	Deciduous broad leaf	Sm-Med	95.4	2448.0	2376.6
996	B	S	12	Lower	113.0	113.3	0.3	Same as sample #216	Deciduous broad leaf	Small	113.2	2465.8	2394.3
997	B	S	12	Lower	86.2	86.6	0.4		Deciduous broad leaf	Sm-Med	86.4	2439.0	2367.6
998	B	S	12	Lower	74.4	74.7	0.3		Non-leaf	Very small	74.5	2427.1	2355.7
999	B	S	12	Lower	81.3	81.6	0.3		Deciduous broad leaf	Sm-Med	81.4	2434.0	2362.6
1000	B	N	12	Lower	136.2	136.5	0.3	Same as sample #217	Deciduous broad leaf	Sm-Med	136.3	2488.9	2417.5
1001	B	N	12	Lower	142.0	142.6	0.6	Diagonally orientated across whole of stated range	Bark	Sm-Med	142.3	2494.9	2423.4
1002	B	N	12	Lower	125.0	125.5	0.5	Same as sample #993	Deciduous broad leaf	Small	125.3	2477.9	2406.4
1003	B	N	12	Lower	113.7	114.0	0.3		Deciduous broad leaf	Small	113.9	2466.5	2395.1
1004	C	N	13	n/a	28.2	28.5	0.3		Deciduous broad leaf	Sm-Med	28.3	3236.7	3104.8

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
1005	C	N	13	n/a	48.5	48.8	0.3	≈17 mm above sample #1140	Deciduous broad leaf	Small	48.7	3257.7	3125.8
1006	C	N	13	n/a	66.0	66.3	0.3		Deciduous broad leaf	Small	66.2	3275.3	3141.1
1007	B	S	16	Upper	64.3	64.6	0.3		Deciduous broad leaf	Medium	64.5	3051.1	2930.9
1008	B	S	16	Upper	3.0	3.3	0.3	From upper 5 cm of core section, though strata seemingly intact	Deciduous broad leaf	Large	3.1	2991.6	2872.4
1009	B	S	16	Upper	20.5	20.8	0.3	Same as dated sample #425	Deciduous broad leaf	Small	20.7	3006.7	2887.5
1010	B	N	17	Lower	124.8	125.1	0.3		Bark?	Small	124.9	3391.9	3254.3
1011	B	N	17	Lower	139.8	140.1	0.3		Deciduous broad leaf	Medium	139.9	3406.2	3268.6
1012	B	N	10	Lower	118.9	119.2	0.3	Same as samples #189 & #989	Deciduous broad leaf	Sm-Med	119.1	2053.5	2000.7
1013	B	N	10	Lower	140.2	140.5	0.3	Two distinct entities; same as sample #991	Deciduous broad leaf & non-leaf fragments	Small	140.3	2075.1	2018.3
1014	B	N	10	Lower	156.5	156.8	0.3		Conifer needle	Small	156.6	2091.1	2034.4
1015	B	N	10	Lower	126.2	126.8	0.6	Same as sample #988	Deciduous broad leaf	Very small	126.5	2061.2	2008.4
1016	B	N	10	Lower	130.0	130.3	0.3	Same as samples #190 & #990	Deciduous broad leaf	Small	130.1	2064.9	2012.1
1017	B	S	16	Upper	11.6	11.9	0.3	≈11 mm above sample #1021	Deciduous broad leaf	Small	11.7	2998.9	2879.7
1018	B	S	16	Upper	24.9	25.2	0.3	Same as sample #415	Deciduous broad leaf	Very small	25.0	3011.2	2891.9
1019	B	S	16	Upper	47.0	47.3	0.3	Same as sample #424	Deciduous broad leaf	Medium	47.1	3033.7	2914.5
1020	B	S	16	Upper	49.9	50.2	0.3	Same as sample #420	Deciduous broad leaf	Very small	50.0	3036.6	2916.9
1021	B	S	16	Upper	12.7	13.0	0.3	≈11 mm below sample #1017	Deciduous broad leaf	Large	12.9	2999.8	2880.6
1022	B	S	16	Upper	30.6	31.0	0.4	≈7 mm above sample #422 & #1023	Deciduous broad leaf	Small	30.8	3017.0	2897.8
1023	B	S	16	Upper	31.3	31.6	0.3	Same as sample #422	Deciduous broad leaf & stem	Small	31.5	3017.8	2898.5
1024	C	S	11	n/a	87.8	88.0	0.2	Same as sample #394	Deciduous broad leaf	Large	87.9	2845.5	2726.3
1025	C	S	11	n/a	85.9	86.1	0.2		Non-leaf	Very small	86.0	2843.7	2724.6
1026	B	S	16	Lower	85.2	85.5	0.3	Same as sample #242	Deciduous broad leaf	Small	85.4	3072.0	2951.7
1027	B	S	16	Lower	118.8	119.1	0.3	From within turbidite layer B-16-05	Stem	Sm-Med	118.9	3105.5	2975.7
1028	B	S	16	Lower	116.7	117.0	0.3	From within turbidite layer B-16-05	Non-leaf	Very small	116.9	3103.5	2975.7
1029	B	S	16	Lower	73.0	73.3	0.3		Deciduous broad leaf	Very small	73.2	3059.8	2939.5
1030	C	S	12	n/a	80.0	80.3	0.3		Bark	Sm-Med	80.2	3181.1	3049.3
1031	C	S	12	n/a	38.0	38.3	0.3		Grass blade?	Small	38.1	3138.6	3007.3

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
1032	C	S	12	n/a	10.4	10.7	0.3		Non-leaf	Very small	10.6	3109.3	2978.0
1033	C	N	12	n/a	36.2	36.7	0.5		Deciduous broad leaf	Sm-Med	36.4	3136.8	3005.5
1034	C	N	12	n/a	65.6	65.8	0.2		Stem?	Small	65.7	3167.3	3035.4
1035	C	N	12	n/a	38.7	39.0	0.3		Deciduous broad leaf	Very small	38.8	3139.4	3008.1
1036	C	N	12	n/a	56.4	56.7	0.3		Non-leaf	Very small	56.5	3158.1	3026.3
1037	C	N	12	n/a	30.2	30.5	0.3		Bark?	Sm-Med	30.4	3130.3	2998.9
1038	C	N	12	n/a	38.3	38.5	0.2		Non-leaf	Very small	38.4	3139.0	3007.6
1039	C	N	12	n/a	5.9	6.3	0.4	From within turbidite layer C-12-01	Twig	Sm-Med	6.1	3104.5	2975.7
1040	C	N	12	n/a	25.5	25.8	0.3		Bark	Med-Lg	25.6	3125.2	2993.9
1041	C	S	12	n/a	50.9	51.0	0.1		Stem	Sm-Med	50.9	3152.5	3020.7
1042	B	S	16	Lower	164.6	164.9	0.3	≈1.5 cm below sample #1043	Deciduous broad leaf	Sm-Med	164.8	3151.4	3020.0
1043	B	S	16	Lower	163.2	163.5	0.3	≈1.5 cm above sample #1042	Dediduous broad leaf	Small	163.3	3149.9	3018.6
1044	A	N	17	Upper	34.8	35.1	0.3		Bark	Sm-Med	35.0	3190.5	3058.7
1045	A	N	17	Upper	69.0	69.3	0.3		*Juniperus* ?	Small	69.2	3224.7	3092.8
1046	A	S	17	Upper	10.0	10.3	0.3	Same as sample #886	Deciduous broad leaf	Sm-Med	10.2	3165.7	3033.8
1047	A	S	17	Lower	18.8	19.2	0.4	Same as samples #247 & #743	Deciduous broad leaf	Medium	19.0	3174.5	3042.7
1048	A	S	17	Lower	81.4	81.7	0.3	Same as samples #251 & #742	Deciduous broad leaf	Sm-Med	81.6	3237.1	3105.2
1049	A	S	17	Lower	102.5	103.0	0.5	Same as sample #252	Deciduous broad leaf	Sm-Med	102.8	3258.3	3126.4
1050	A	S	17	Lower	59.9	60.3	0.4		Deciduous broad leaf (incl. stem)	Sm-Med	60.1	3215.6	3083.8
1051	A	S	17	Lower	55.7	55.9	0.2		Non-leaf	Very small	55.8	3211.3	3079.5
1052	A	N	12	Lower	102.4	102.8	0.4		Stem fragment	Very small	102.6	2323.1	2254.3
1053	A	N	12	Upper	17.6	17.8	0.2		Non-leaf	Very small	17.7	2234.2	2176.0
1054	A	N	12	Upper	45.9	46.2	0.3		Dediduous broad leaf	Very small	46.1	2265.1	2197.3
1055	A	N	12	Upper	47.4	47.7	0.3	Same as samples #205, #616 & #1060	Deciduous broad leaf (& stem)	Small	47.6	2266.7	2198.9
1056	A	N	12	Upper	80.7	80.9	0.2		Non-leaf	Very small	80.8	2301.3	2233.0
1057	A	S	12	Upper	10.9	11.1	0.2		Non-leaf	Very small	11.0	2226.9	2168.7
1058	A	S	12	Upper	5.0	5.3	0.3		Blade/needle	Small	5.2	2220.6	2162.9
1059	A	S	12	Lower	131.3	131.6	0.3		Conifer needle	Small	131.4	2351.9	2281.0

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
1060	A	S	12	Lower	47.6	48.0	0.4	Same as sample #205, #616 & #1055	Deciduous broad leaf	Very small	47.8	2266.9	2199.1
1061	A	S	12	Lower	80.1	80.4	0.3		Dediduous broad leaf	Very small	80.2	2300.7	2232.4
1062	A	S	12	Lower	102.7	103.2	0.5		Stem fragments	Small	102.9	2323.4	2254.6
1063	A	S	12	Lower	127.1	127.6	0.5		Deciduous broad leaf & conifer needle	Small	127.4	2347.9	2276.9
1064	A	S	12	Lower	45.3	45.7	0.4		Bark?	Small	45.5	2264.5	2196.6
1065	A	S	12	Lower	109.4	109.7	0.3		Dediduous broad leaf	Very small	109.5	2330.0	2261.2
1066	C	S	11	n/a	33.4	33.7	0.3		Deciduous broad leaf	Medium	33.5	2792.1	2676.1
1067	C	S	11	n/a	20.3	20.6	0.3	≈2 cm above sample #1073	Deciduous broad leaf (incl. central vein)	Medium	20.4	2779.6	2664.1
1068	C	S	11	n/a	58.1	58.5	0.4	Same as dated samples #395 & #396	Deciduous broad leaf	Medium	58.3	2816.4	2698.0
1069	C	S	11	n/a	65.8	66.1	0.3		Deciduous broad leaf	Medium	66.0	2824.0	2705.5
1070	C	S	11	n/a	81.2	81.5	0.3		Conifer needle	Small	81.3	2839.1	2720.7
1071	C	S	11	n/a	7.0	7.3	0.3		Deciduous broad leaf	Very small	7.2	2767.0	2651.5
1072	C	S	11	n/a	76.6	76.9	0.3		Conifer fragments?	Small	76.7	2834.5	2716.1
1073	C	S	11	n/a	22.3	22.6	0.3	≈2 cm below sample #1067	Deciduous broad leaf	Small	22.4	2781.5	2665.5
1074	C	S	11	n/a	36.1	36.4	0.3	Same as sample #402	Deciduous broad leaf	Small	36.2	2794.7	2678.7
1075	C	S	11	n/a	42.5	42.8	0.3	Same as sample #397	Deciduous broad leaf	Med-Lg	42.7	2800.9	2684.4
1076	C	S	11	n/a	46.3	46.6	0.3		Conifer needle	Small	46.4	2804.5	2688.0
1077	C	S	11	n/a	70.0	70.3	0.3	Same as sample #399	Leaf fragment	Very small	70.1	2828.1	2709.6
1078	A	N	11	Upper	69.0	69.3	0.3	From same depth as sample #1079	Deciduous broad leaf	Medium	69.2	2037.1	1985.2
1079	A	N	11	Upper	69.0	69.4	0.4	From same depth as sample #1078	Conifer needle	Small	69.2	2037.1	1985.2
1080	A	N	11	Upper	8.1	8.4	0.3	Same as sample #450	Deciduous broad leaf	Small	8.2	1975.6	1925.8
1081	A	N	11	Upper	12.8	13.1	0.3		Conifer needle	Small	12.9	1980.3	1930.5
1082	B	N	15	Upper	26.8	27.3	0.5	≈2 mm above sample #464	Deciduous broad leaf	Small	27.0	2866.8	2747.6
1083	B	N	15	Upper	43.6	43.9	0.3	≈5 mm above samples #462 & #1086	Deciduous broad leaf	Very small	43.7	2883.5	2764.3

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
1084	B	N	15	Upper	5.9	6.2	0.3	Same as sample #900	Deciduous broad leaf	Sm-Med	6.0	2845.7	2726.5
1085	B	N	15	Upper	32.1	32.4	0.3		Deciduous broad leaf	Sm-Med	32.2	2872.0	2752.8
1086	B	N	15	Upper	44.1	44.5	0.4	Same as sample #462	Deciduous broad leaf	Small	44.3	2884.1	2764.9
1087	B	N	15	Upper	44.5	45.1	0.6	≈1 to 4 mm below samples #462 & #1086	Deciduous broad leaf	Small	44.8	2884.6	2765.4
1088	B	N	15	Upper	50.7	51.0	0.3		Bladed leaf?	Small	50.8	2890.6	2771.4
1089	B	N	15	Upper	84.4	85.0	0.6	Same as sample #909	Deciduous broad leaf	Small	84.7	2924.5	2805.2
1090	B	S	15	Lower	23.0	23.3	0.3	Same as sample #454	Deciduous broad leaf	Small	23.2	2863.0	2743.7
1091	B	S	15	Lower	27.5	27.7	0.2		Non-leaf	Very small	27.6	2867.4	2748.2
1092	B	S	15	Lower	29.5	29.7	0.2	Same as sample #458	Deciduous broad leaf	Small	29.6	2869.4	2750.2
1093	B	S	15	Lower	109.1	109.3	0.2	Pre-exposed at base of core section B-15; same as sample #902	Deciduous broad leaf	Sm-Med	109.2	2949.0	2829.8
1094	B	S	15	Lower	109.0	109.2	0.2	Partially exposed at base of core section B-15; ≈1 mm above sample #1093; same as sample #902	Deciduous broad leaf	Sm-Med	109.1	2948.9	2829.7
1095	B	S	15	Lower	107.1	107.3	0.2		Deciduous broad leaf	Small	107.2	2947.0	2827.8
1096	A	N	18	n/a	29.9	30.2	0.3	≈2 mm below samples #266 & #1096	Bark?	Sm-Med	30.0	3411.7	3274.1
1097	A	N	18	n/a	57.5	57.8	0.3		Stem fragments	Small	57.6	3439.3	3301.7
1098	A	N	18	n/a	30.1	30.4	0.3	Same as sample #266; ≈2 mm below sample #1096	Deciduous broad leaf	Small	30.2	3411.9	3274.3
1099	A	N	18	n/a	27.1	27.4	0.3		*Juniperus* ?	Small	27.2	3408.9	3271.3
1100	A	N	18	n/a	79.9	80.2	0.3		Deciduous broad leaf	Small	80.0	3461.7	3324.1
1101	A	N	18	n/a	26.3	26.6	0.3	Same as sample #1105	Stem fragment	Very small	26.4	3408.1	3270.5
1102	A	N	18	n/a	73.1	73.4	0.3		Non-leaf	Very small	73.3	3455.0	3317.4
1103	A	N	18	n/a	91.7	91.9	0.2		Deciduous broad leaf	Very small	91.8	3473.5	3335.9
1104	A	S	18	n/a	54.3	54.8	0.5		Deciduous broad leaf	Small	54.5	3436.2	3298.6
1105	A	S	18	n/a	26.2	26.7	0.5	Same as sample #1101	Stem fragments	Small	26.5	3408.2	3270.5
1106	B	S	10	Upper	18.3	18.6	0.3		Conifer needle	Small	18.4	1952.4	1903.8

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
1107	B	S	10	Upper	45.0	45.4	0.4	Same as samples #825 & #1116; from within flood layer	Deciduous broad leaf	Small	45.2	1979.2	1929.4
1108	B	S	10	Upper	21.5	21.8	0.3		Conifer needle	Very small	21.6	1955.6	1907.0
1109	B	S	10	Upper	24.3	24.6	0.3		Conifer needle	Very small	24.4	1958.4	1909.8
1110	B	S	10	Upper	50.7	51.0	0.3		Deciduous broad leaf	Small	50.8	1984.8	1935.0
1111	B	S	10	Upper	3.6	3.9	0.3	From upper 5 cm of core section	Leaf fragments	Very small	3.7	1937.7	1894.6
1112	B	S	10	Upper	67.3	67.6	0.3		Deciduous broad leaf	Very small	67.4	2001.4	1951.6
1113	B	N	10	Upper	2.9	3.2	0.3	Same as sample #518; from upper 5 cm of core section	Deciduous broad leaf	Very small	3.0	1937.0	1893.9
1114	B	N	10	Upper	19.4	19.7	0.3		Deciduous broad leaf	Very small	19.5	1953.5	1904.9
1115	B	N	10	Upper	45.4	45.7	0.3	≈3 mm below samples #825, #1107 & #1116; from within flood layer	Deciduous broad leaf	Small	45.5	1979.5	1929.7
1116	B	N	10	Upper	45.0	45.4	0.4	Same as samples #825 & #1107; from within flood layer	Deciduous broad leaf stem fragments	Small	45.2	1979.2	1929.4
1117	B	N	10	Upper	66.7	67.0	0.3		Non-leaf	Small	66.8	2000.8	1951.0
1118	B	N	07	Upper	43.6	43.9	0.3		Deciduous broad leaf	Medium	43.7	1335.6	1304.9
1119	B	N	07	Upper	73.0	73.3	0.3	Same as sample #089	Deciduous broad leaf	Medium	73.2	1365.1	1333.9
1120	B	N	07	Upper	86.4	86.7	0.3		Deciduous broad leaf	Medium	86.5	1378.4	1347.2
1121	B	N	07	Upper	91.1	91.5	0.4	Same as sample #092	Twig fragment	Med-Lg	91.3	1383.2	1352.0
1122	B	N	07	Upper	19.7	20.0	0.3		Deciduous broad leaf	Small	19.8	1311.7	1281.1
1123	B	N	07	Upper	22.0	22.3	0.3	Same as sample #080	Deciduous broad leaf	Medium	22.1	1314.0	1283.4
1124	B	N	07	Upper	80.2	80.5	0.3	≈3 mm below sample #1126	Bark	Small	80.4	1372.3	1341.1
1125	B	N	07	Upper	80.1	80.5	0.4	Different from samples #1124 & #1126	Branched twig fragment	Med-Lg	80.3	1372.2	1341.0
1126	B	N	07	Upper	79.8	80.1	0.3	≈3 mm above sample #1124	Stem fragment	Small	80.0	1371.9	1340.7
1127	B	N	07	Upper	54.2	54.5	0.3		Grass blade?	Small	54.3	1346.2	1315.5
1128	B	N	07	Upper	14.3	14.6	0.3		Deciduous broad leaf	Medium	14.4	1306.2	1275.5
1129	B	N	07	Upper	37.6	37.9	0.3		Deciduous broad leaf	Medium	37.7	1329.6	1299.0
1130	B	N	07	Upper	60.0	60.3	0.3	Same as sample #087	Deciduous broad leaf	Small	60.1	1352.0	1321.3

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
1131	B	N	07	Upper	60.0	60.3	0.3	From same depth as samples #087 & #1130	Insect remains?	Small	60.1	1352.0	1321.3
1132	B	S	18	Upper	64.6	64.9	0.3		Deciduous broad leaf	Sm-Med	64.7	3510.6	3372.5
1133	B	S	18	Upper	37.9	38.3	0.4		Includes twig fragments	Sm-Med	38.1	3484.0	3346.4
1134	B	S	18	Upper	21.0	21.3	0.3	Same as samples #272 & #981	Deciduous broad leaf	Medium	21.1	3467.0	3329.4
1135	C	S	14	n/a	40.9	41.3	0.4		Bark, stems & moss (*Spagnum*)	Med-Lg	41.1	3360.9	3226.8
1136	C	S	14	n/a	53.3	53.6	0.3		Non-leaf	Very small	53.4	3373.3	3238.7
1137	C	N	13	n/a	17.1	17.4	0.3		Deciduous broad leaf	Small	17.2	3225.1	3093.3
1138	C	N	13	n/a	2.0	2.3	0.3	From upper 5 cm of core section	Stem fragment	Very small	2.2	3209.4	3077.6
1139	C	N	13	n/a	58.9	59.2	0.3		Bark	Sm-Med	59.0	3268.1	3134.0
1140	C	N	13	n/a	50.2	50.5	0.3	≈17 mm below sample #1005	Bark	Sm-Med	50.3	3259.4	3127.5
1141	C	N	13	n/a	73.9	74.2	0.3		Conifer needle	Small	74.0	3283.1	3149.0
1142	C	N	13	n/a	71.5	71.8	0.3		Conifer needle	Very small	71.7	3280.8	3146.6
1143	C	S	13	n/a	11.2	11.5	0.3		Non-leaf	Very small	11.3	3218.9	3087.1
1144	C	S	13	n/a	7.0	7.4	0.4		Conifer needle	Very small	7.2	3214.6	3082.8
1145	C	S	13	n/a	2.3	2.7	0.4	From upper 5 cm of core section	Conifer needle	Very small	2.5	3209.7	3077.9
1146	B	N	07	Lower	108.9	109.2	0.3		Deciduous broad leaf	Large	109.0	1400.9	1369.7
1147	B	N	07	Lower	150.7	151.0	0.3	Same as sample #104	Deciduous broad leaf	Large	150.8	1443.2	1409.7
1148	B	N	07	Lower	123.9	124.2	0.3		Deciduous broad leaf	Very small	124.0	1415.9	1384.8
1149	B	N	07	Lower	159.2	159.5	0.3		Deciduous broad leaf	Medium	159.4	1451.6	1418.2
1150	B	N	07	Lower	166.9	167.2	0.3		Deciduous broad leaf	Large	167.1	1459.2	1425.7
1151	B	N	07	Lower	155.6	155.9	0.3		Deciduous broad leaf	Large	155.7	1448.0	1414.6
1152	B	N	07	Lower	175.5	175.8	0.3	Same as sample #110	Deciduous broad leaf	Med-Lg	175.6	1467.6	1434.1
1153	B	N	07	Lower	163.4	163.7	0.3	Same as sample #107	Deciduous broad leaf	Medium	163.6	1455.7	1422.3
1154	B	N	07	Lower	163.4	163.7	0.3	From same depth as samples #107 & #1153	Insect fragment?	Small	163.6	1455.7	1422.3
1155	B	N	07	Lower	151.7	152.0	0.3	Same as sample #105	Deciduous broad leaf	Medium	151.9	1444.2	1410.8
1156	B	N	07	Lower	129.4	129.7	0.3		Deciduous broad leaf	Very small	129.5	1421.4	1390.3
1157	B	N	07	Lower	102.3	102.8	0.5	Same as sample #093	Deciduous broad leaf	Small	102.5	1394.4	1363.2

Appendix 10 (continued):

SG06 sample ID (#)	SG06 core section: Bore Hole	N/S	No.	Upper/ Lower	Sampling depth: from (cm)	Sampling depth: to (cm)	Thickness (cm)	Sampling Note	Sample type	Quantity	Sampling depth: centre	SG06 CD (cm) (ver. 24th Aug 2009)	SG06 EFD (cm) (ver. 2nd Jan 2009)
1158	B	N	07	Lower	128.5	129.0	0.5	Same as sample #099	Deciduous broad leaf	Medium	128.8	1420.7	1389.5
1159	B	N	07	Lower	132.9	133.2	0.3		Bud skin?	Small	133.0	1424.9	1393.8
1160	B	N	07	Lower	186.2	186.5	0.3	Same as sample #113	Deciduous broad leaf	Small	186.4	1478.3	1444.8
1161	B	N	07	Lower	182.7	183.0	0.3	Same as sample #111	Deciduous broad leaf	Small	182.8	1474.7	1441.3
1162	B	N	07	Lower	166.1	166.3	0.2		Non-leaf	Small	166.2	1458.4	1424.9
1163	B	N	07	Lower	145.9	146.2	0.3		Deciduous broad leaf	Small	146.1	1438.2	1404.8
1164	B	N	07	Lower	136.3	136.7	0.4		Stem fragment	Very small	136.5	1428.4	1397.2
1165	B	N	07	Lower	168.3	168.6	0.3	Same as sample #109	Deciduous broad leaf	Medium	168.5	1460.5	1427.1
1166	B	S	17	Upper	38.0	38.3	0.3	Same as samples #255 & #973	Deciduous broad leaf	Small	38.1	3305.1	3171.0
1167	B	S	17	Upper	21.6	21.9	0.3		Deciduous broad leaf	Very small	21.7	3288.7	3154.6
1168	B	S	17	Upper	36.4	37.0	0.6		Conifer needle	Small	36.7	3303.7	3169.5
1169	B	S	17	Upper	41.9	42.2	0.3	Same as sample #256	Bark?	Sm-Med	42.0	3309.0	3174.9
1170	B	N	17	Upper	68.0	68.3	0.3		Deciduous broad leaf	Small	68.1	3335.1	3201.0
1171	B	N	17	Upper	32.3	32.6	0.3	Same as samples #254 & #972	Deciduous broad leaf	Small	32.4	3299.4	3165.3
1172	B	S	17	Lower	89.6	89.9	0.3		Non-leaf	Very small	89.8	3356.8	3222.6
1173	B	S	17	Lower	66.1	66.4	0.3		Non-leaf	Very small	66.3	3333.3	3199.1
1174	B	N	17	Lower	127.3	127.6	0.3		Insect fragments?	Sm-Med	127.4	3394.3	3256.7
1175	B	N	17	Lower	125.9	126.2	0.3		Non-leaf	Very small	126.0	3393.0	3255.4
1176	B	n/a	16	n/a	15.8	16.2	0.4		Bark	Large	16.0	3002.5	2883.3

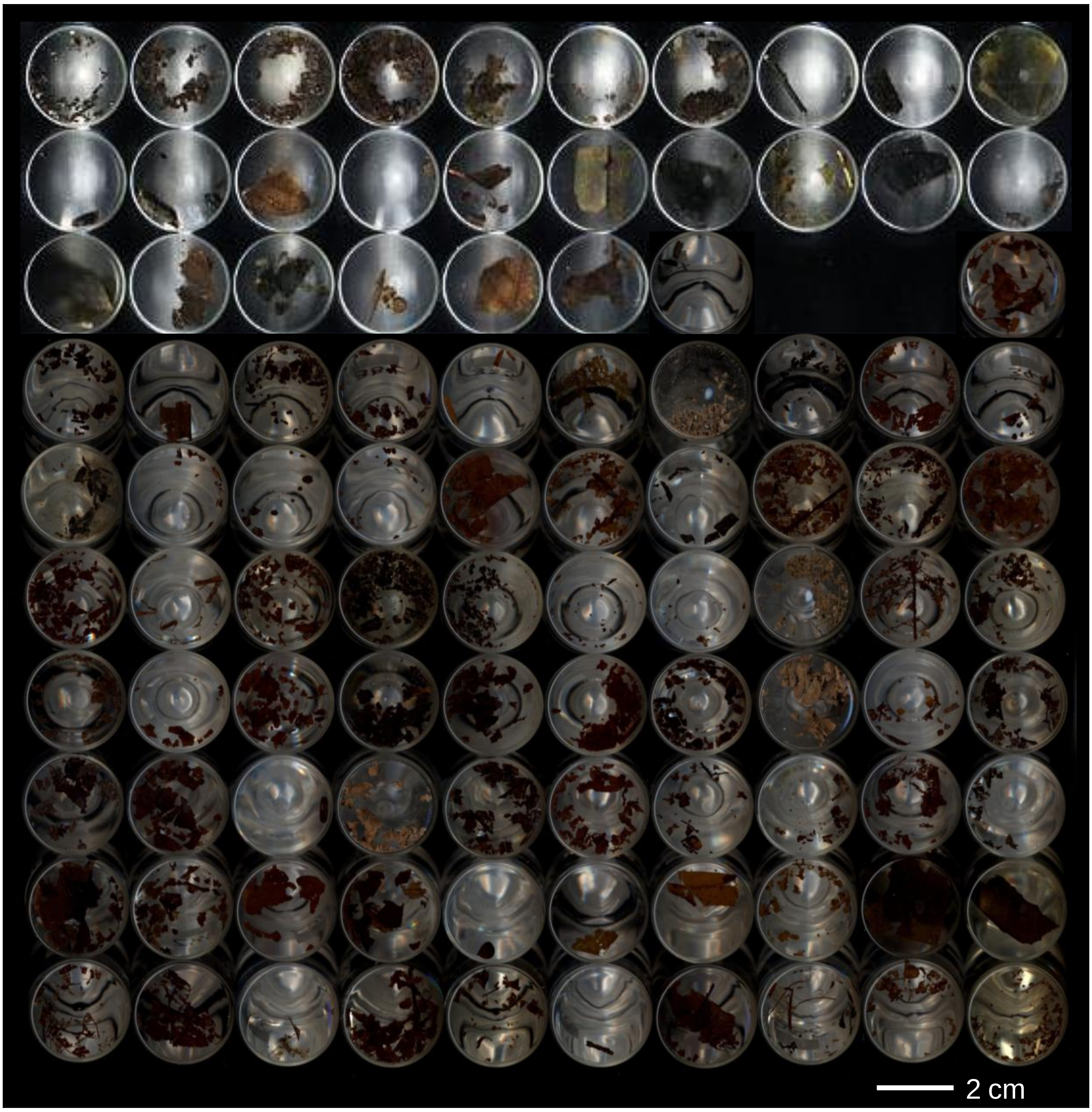
Appendix 11: Suigetsu Varves 2006 Macrofossil Samples: Vial Images

(a): #001 to #100

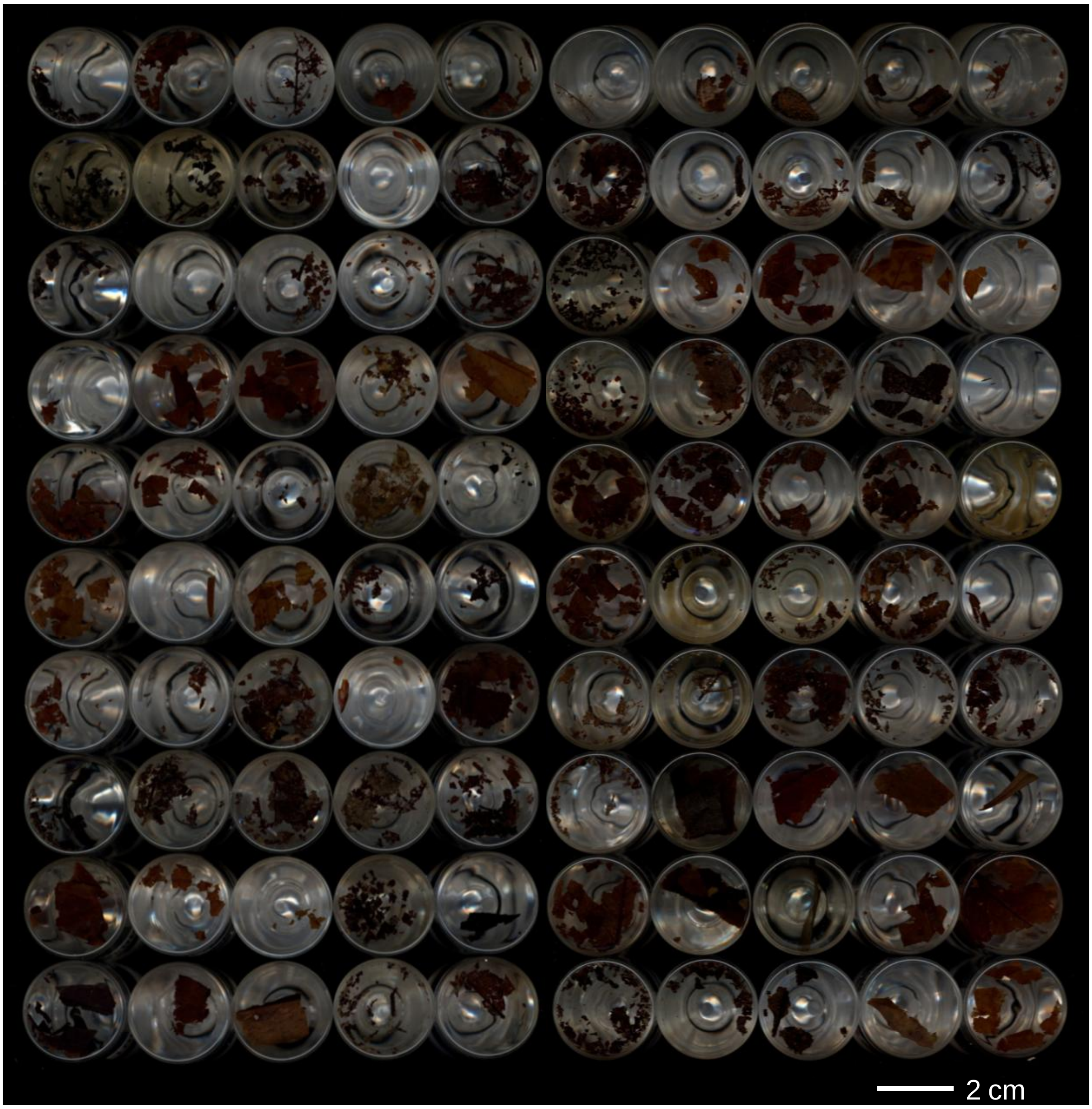
Appendix 11 (b): #101 to #200

Appendix 11 (c): #201 to #300

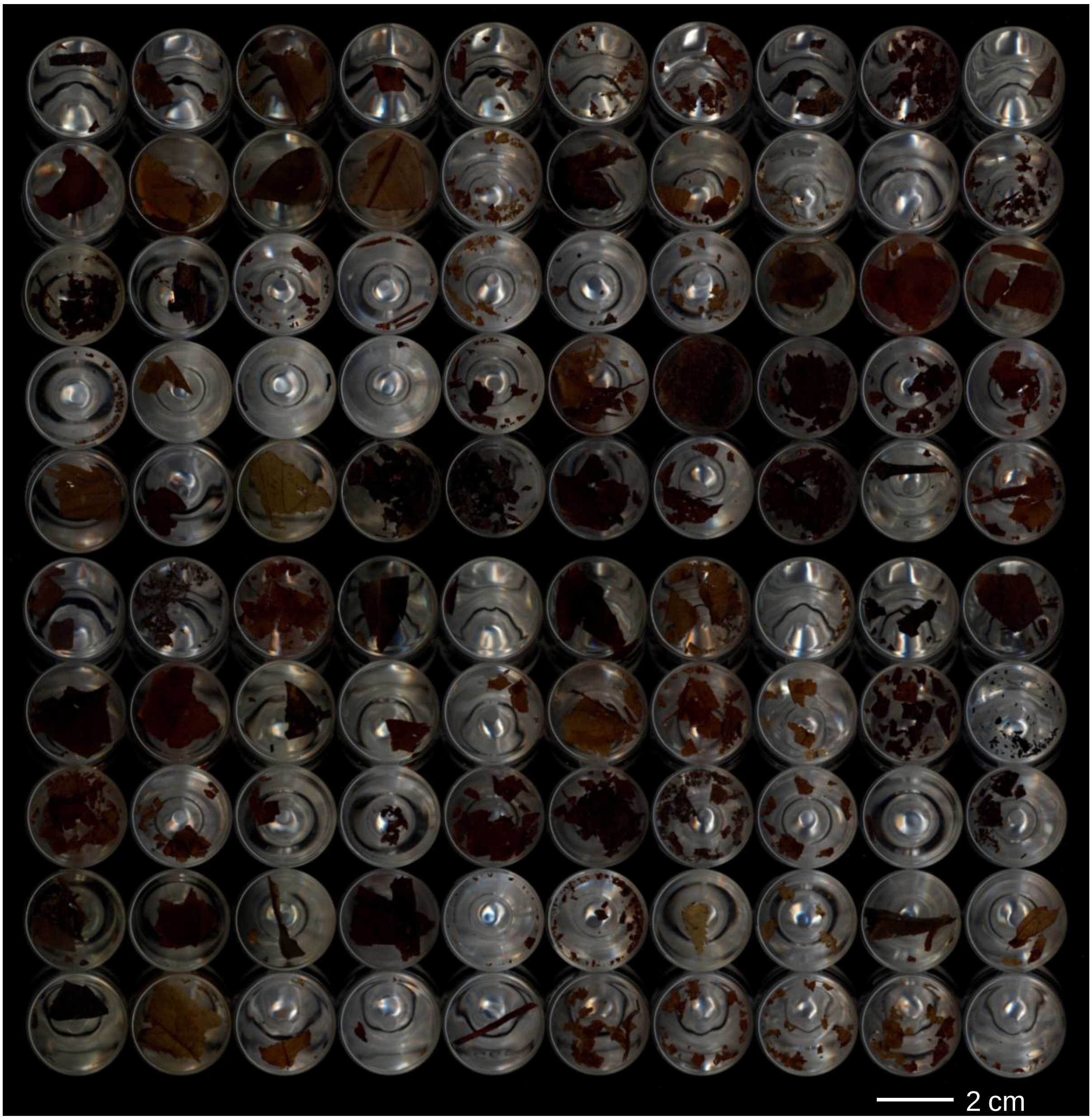
Appendix 11 (d): #301 to #400



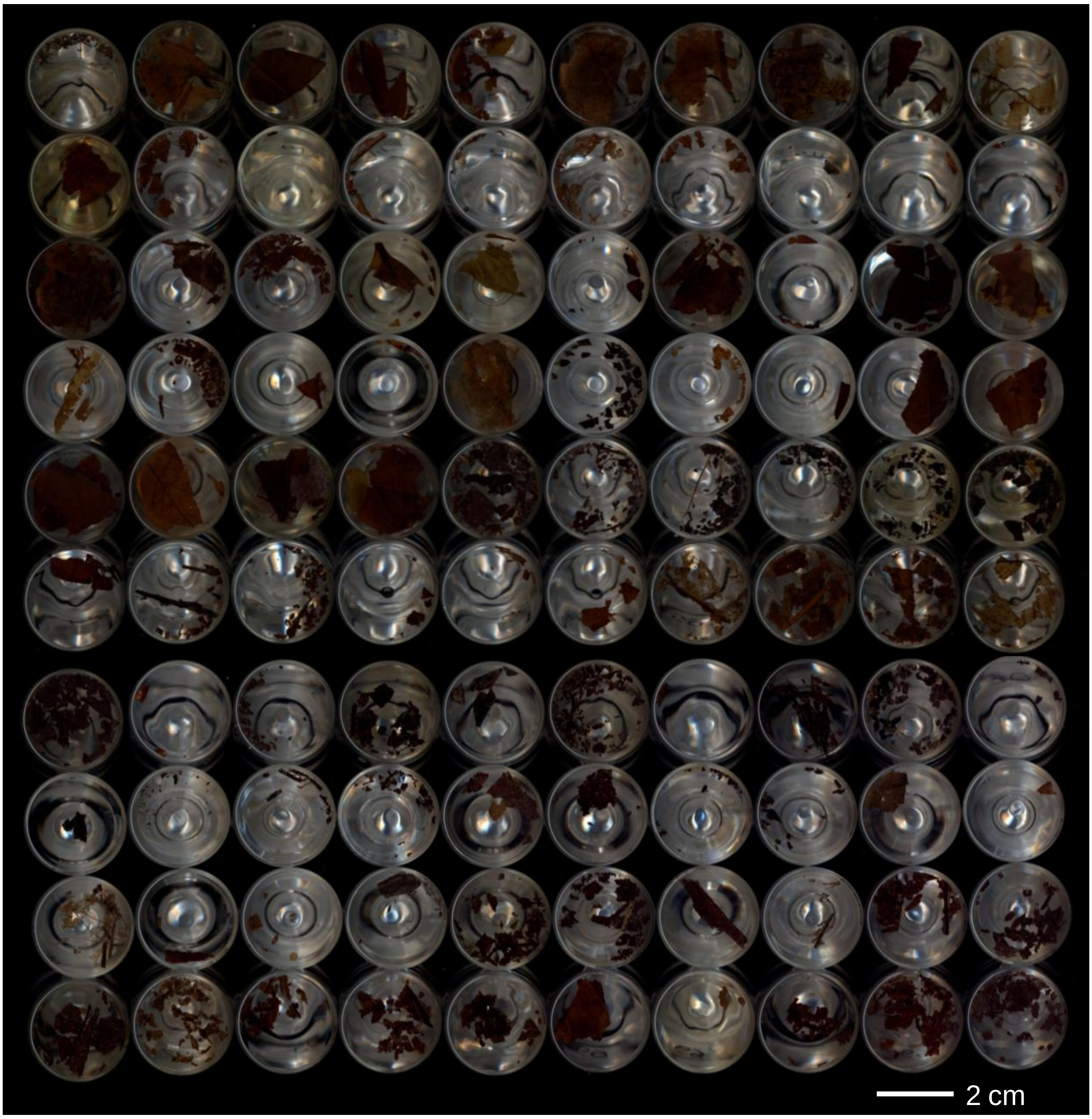
Appendix 11 (e): #401 to #500



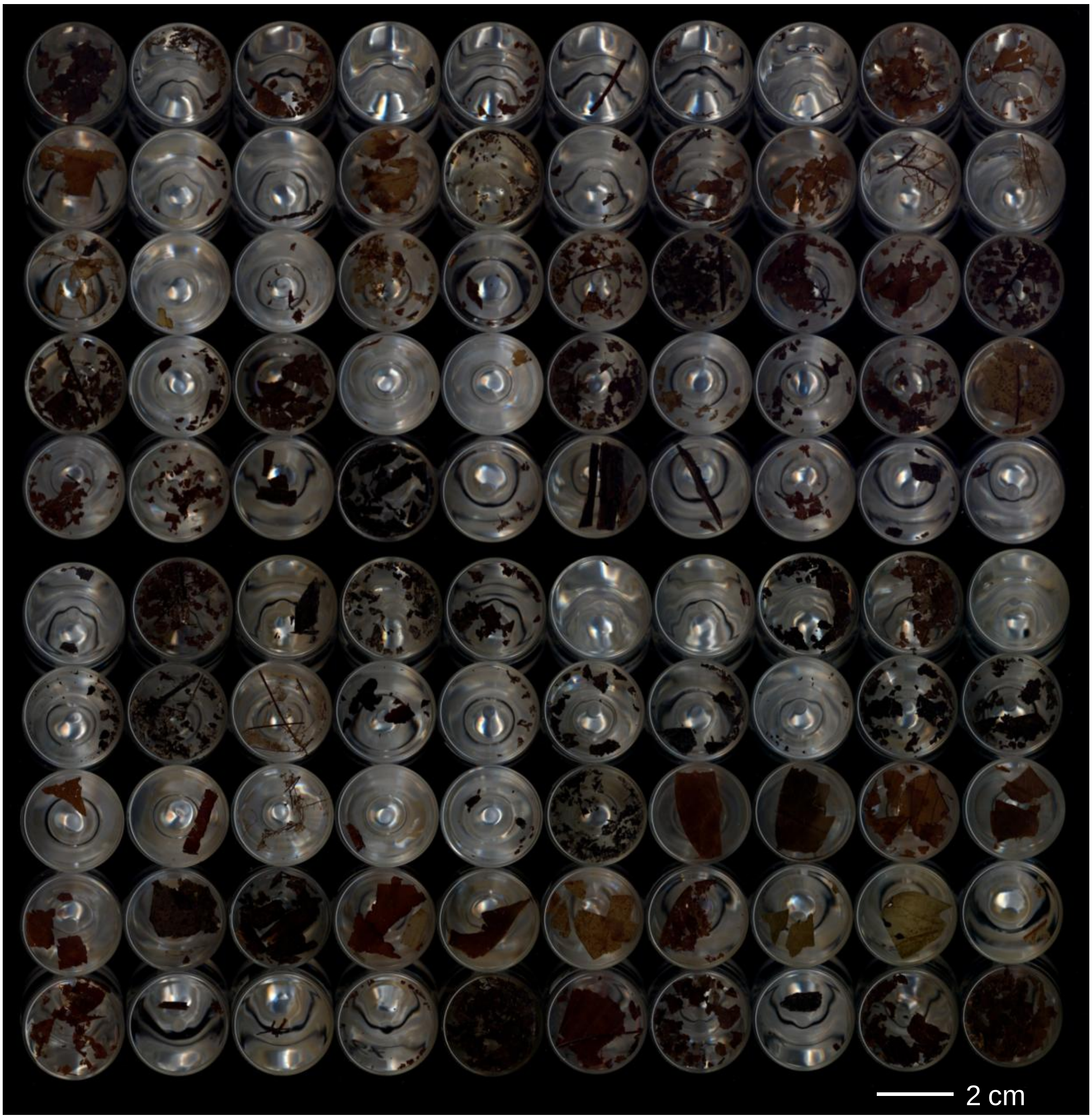
Appendix 11 (f): #501 to #600



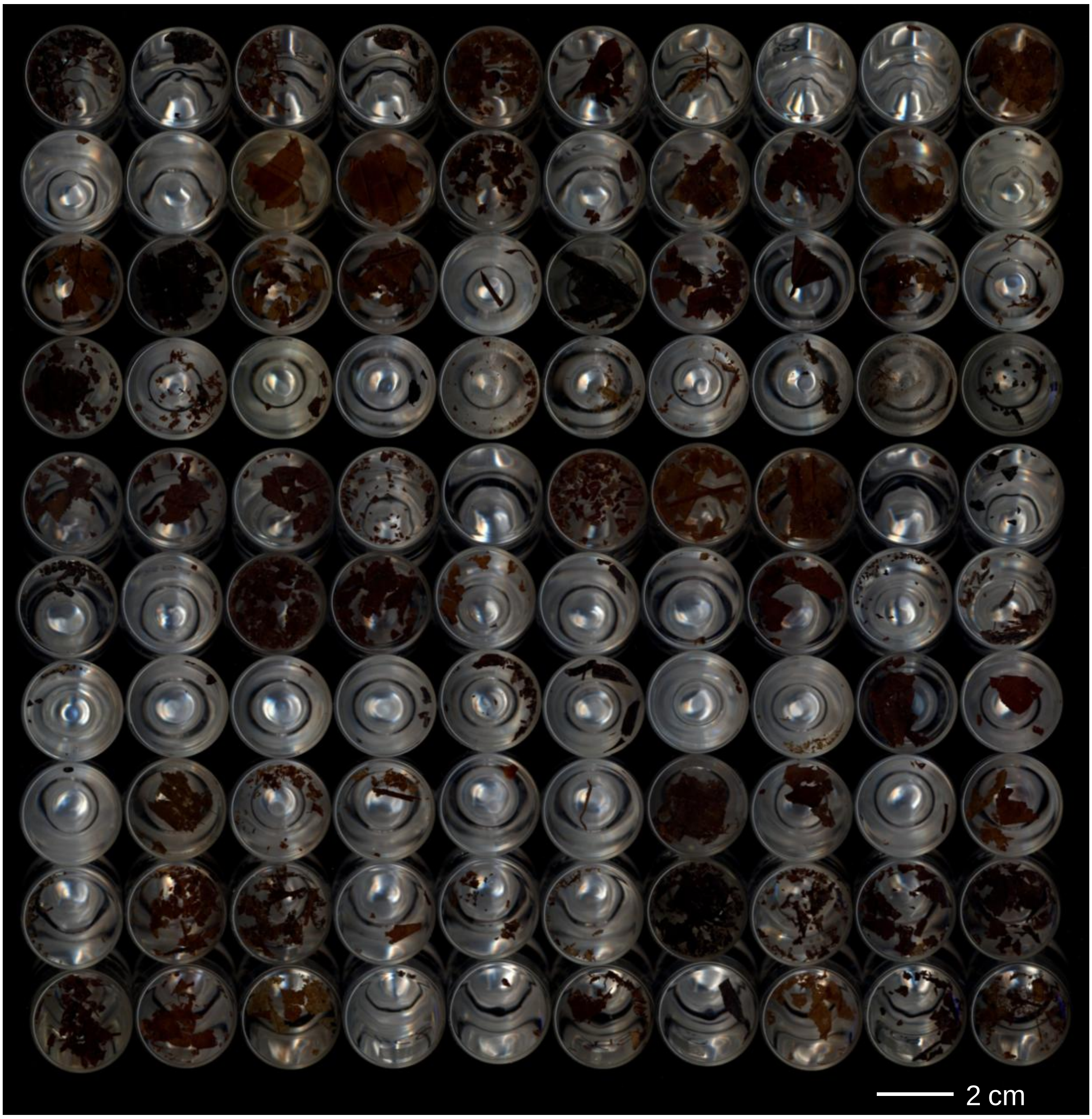
Appendix 11 (g): #601 to #700



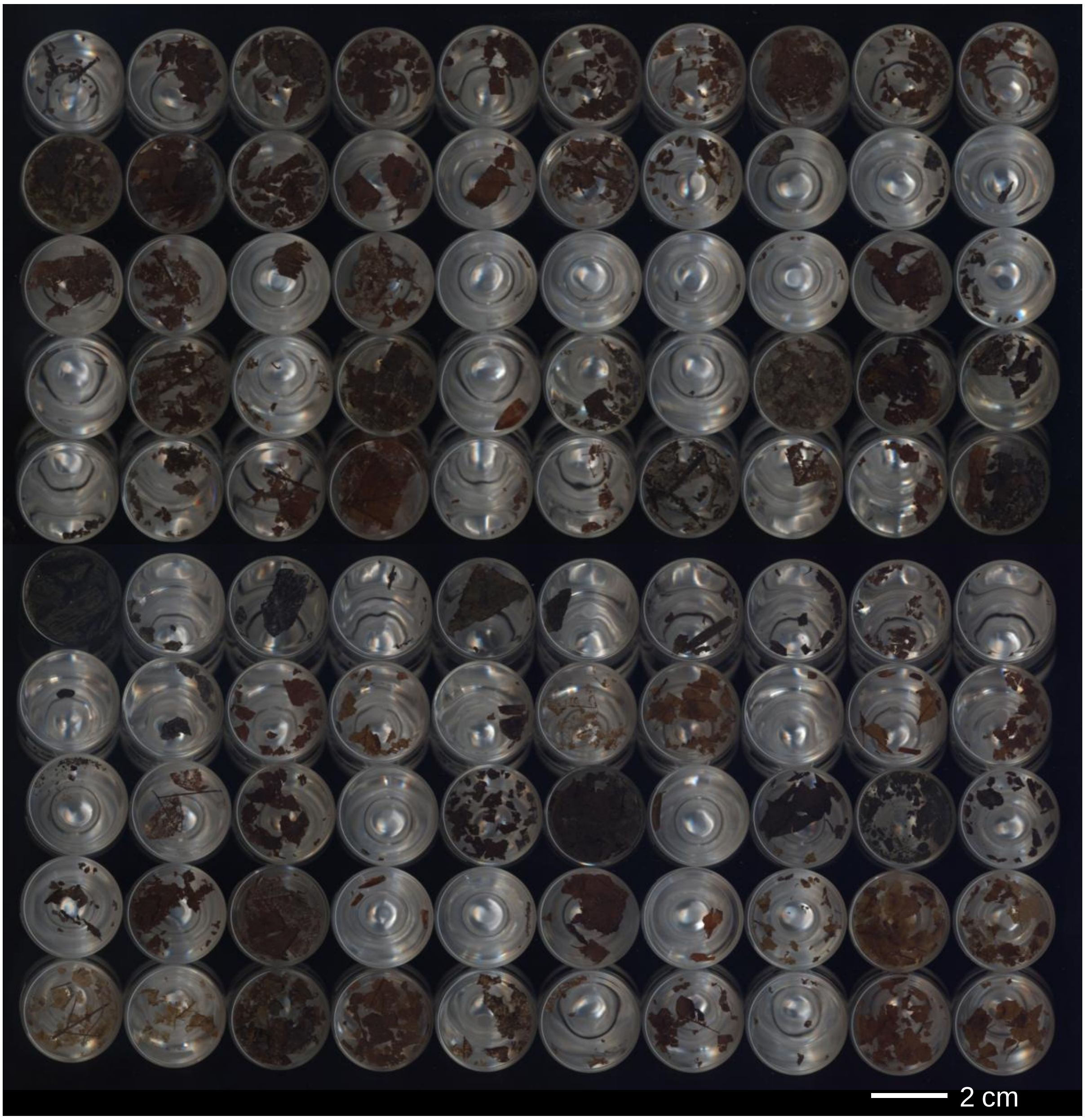
Appendix 11 (h): #701 to #800



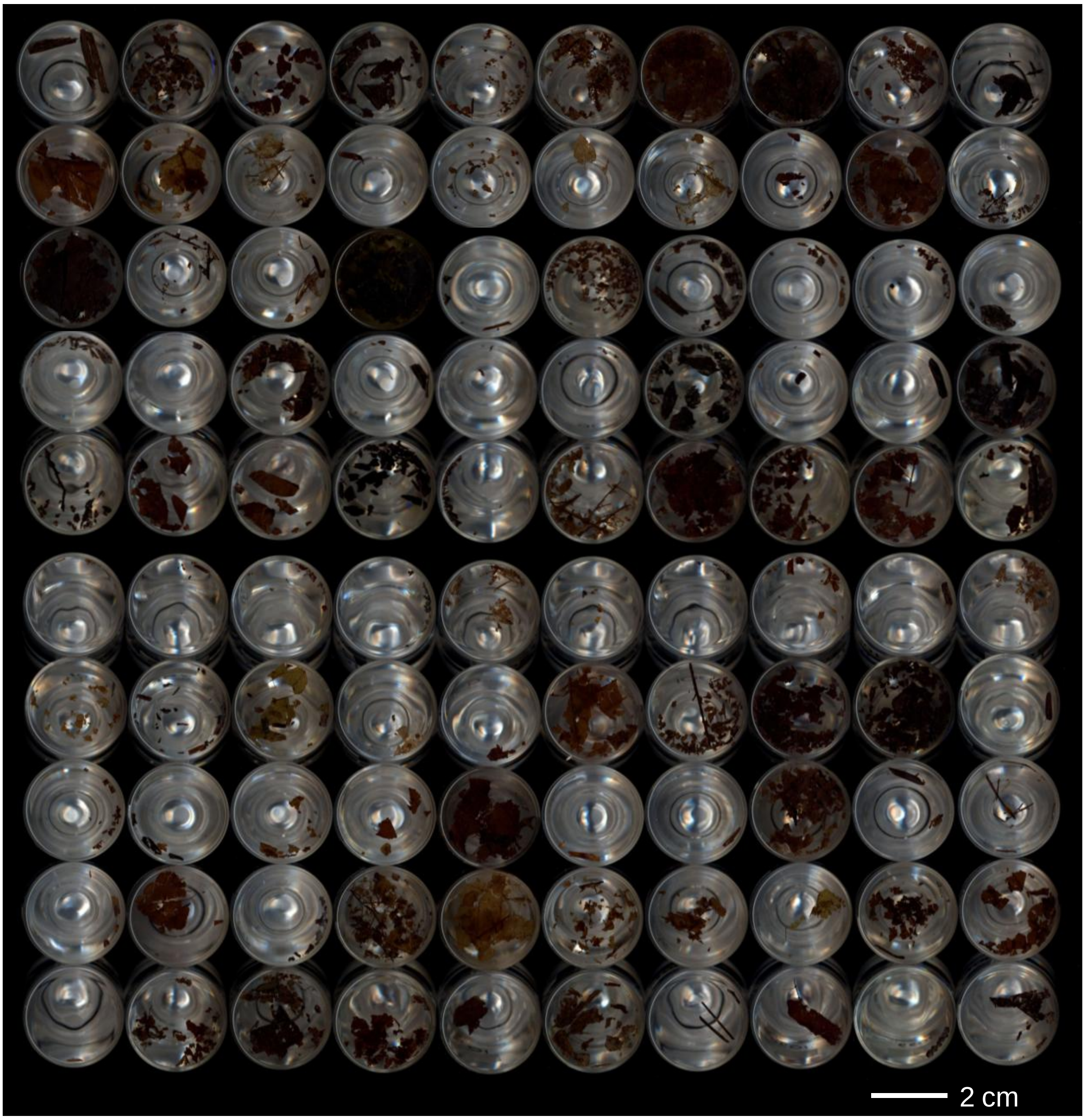
Appendix 11 (i): #801 to #900



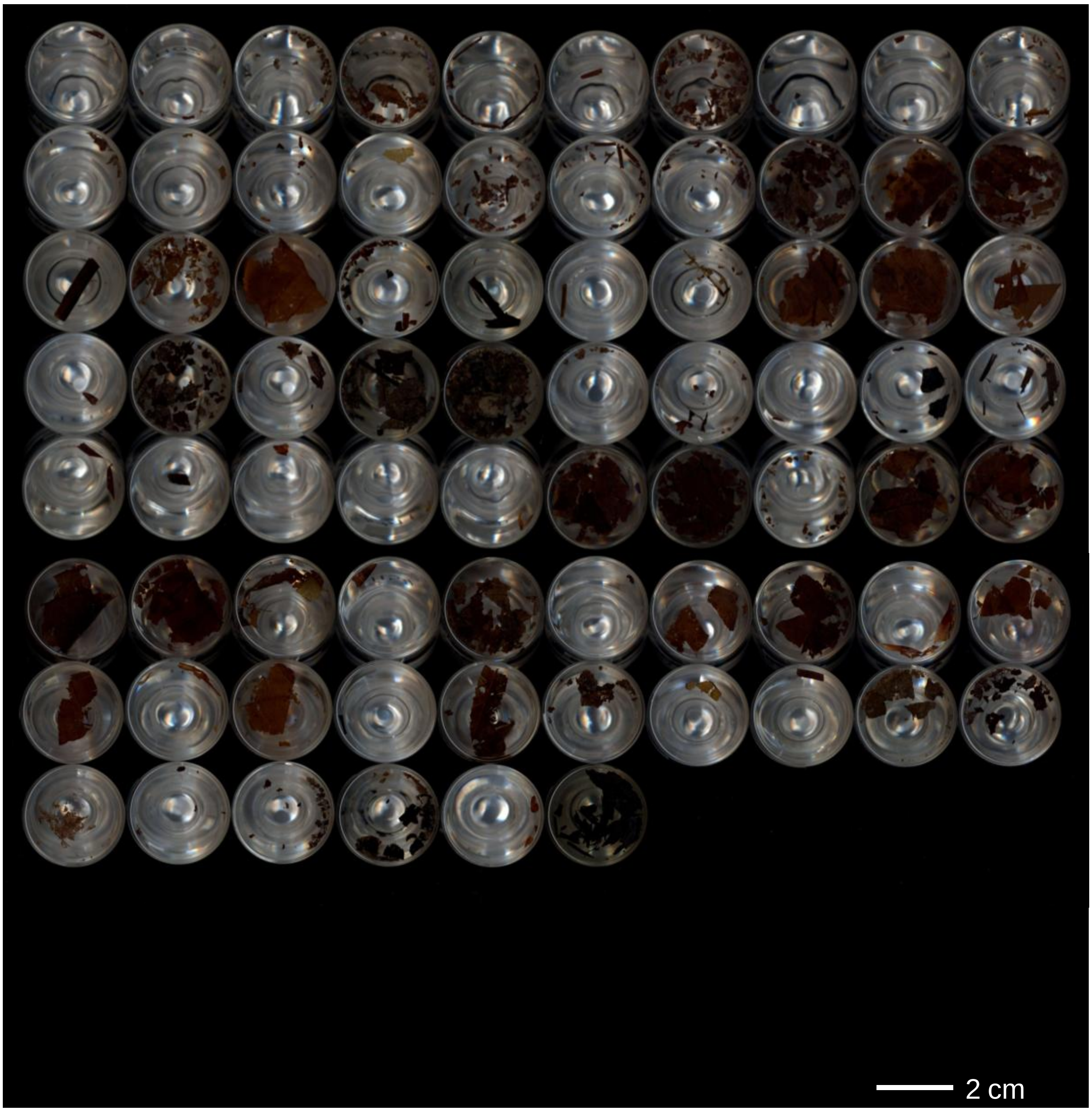
Appendix 11 (j): #901 to #1000



Appendix 11 (k): #1001 to #1100



Appendix 11 (l): #1101 to #1176



Appendix 12: Suigetsu Varves 2006 radiocarbon determinations. (The 'uncorrected' conventional radiocarbon dates and $F^{14}C$ values reflect the original data, prior to the additional background correction for 1.6 µg modern C contamination described in section 7.2.1.)

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
B43,50-70cm	Peat	6913.9	6650.1	-	Background	OxA-X-2203-42	NRC1	g	1.230			48,900 ± 1,200	0.00226 ± 0.00033
B43,50-70cm	Peat	6913.9	6650.1	-	Background	OxA-X-2203-43	UW	g	1.072			47,700 ± 1,100	0.00264 ± 0.00036
B43,50-70cm	Peat	6913.9	6650.1	-	Background	OxA-X-2204-52	NRC2	G	2.335			55,600 ± 1,700	0.00099 ± 0.00021
B43,50-70cm	Peat	6913.9	6650.1	-	Background	OxA-X-2204-53	WW	G	2.554			53,400 ± 1,300	0.00130 ± 0.00021
B43,50-70cm	Peat (humin fraction)	6913.9	6650.1	-	Background	SUERC-15705		g	10.446			46,401 ± 259	0.00310 ± 0.00010
B43,50-70cm	Peat (raw material)	6913.9	6650.1	-	Background	SUERC-15706		g	7.982			47,511 ± 298	0.00270 ± 0.00010
B43,50-70cm	Peat (humic fraction)	6913.9	6650.1	-	Background	SUERC-15707		g	3.214			45,659 ± 236	0.00340 ± 0.00010
B-43,05-22cm	Peat	6865.3	6602.9	-	Background	OxA-X-2203-40	NRC1	g	1.584			48,700 ± 1,000	0.00232 ± 0.00029
B-43,05-22cm	Peat	6865.3	6602.9	-	Background	OxA-X-2203-41	UW	g	0.860			44,700 ± 900	0.00385 ± 0.00044
B-43,05-22cm	Peat	6865.3	6602.9	-	Background	OxA-X-2204-50	NRC2	G	3.138			59,100 ± 2,300	0.00064 ± 0.00019
B-43,05-22cm	Peat	6865.3	6602.9	-	Background	OxA-X-2204-51	WW	G	2.409			51,800 ± 1,100	0.00159 ± 0.00022
B-43,05-22cm	Peat	6865.3	6602.9	-	Background	OxA-X-2207-39	WW	G	2.029			> 60,400	0.00011 ± 0.00022
B-43,05-22cm	Peat	6865.3	6602.9	-	Background	OxA-X-2207-40	NRC1	G	2.118			> 62,300	0.00000 ± 0.00021
B-43,05-22cm	Peat	6865.3	6602.9	-	Background	OxA-X-2207-41	NRC1	G	2.374			> 58,600	0.00026 ± 0.00021
B-43,05-22cm	Peat	6865.3	6602.9	-	Background	OxA-X-2207-42	NRC	G	2.449			> 62,300	0.00002 ± 0.00020
951	Bark	6591.7	6408.2	-	Background	OxA-X-2340-39	UW	g	1.229			> 58,500	0.00000 ± 0.00034
951	Bark	6591.7	6408.2	-	Background	OxA-X-2345-18	V V	g	0.685			> 55,000	0.00007 ± 0.00050
951	Bark	6591.7	6408.2	-	Background	OxA-X-2356-49	V V	G	2.203			> 59,400	0.00000 ± 0.00031
951	Bark	6591.7	6408.2	-	Background	OxA-X-2356-50	UW	G	2.340			> 56,200	0.00000 ± 0.00045
951	Bark	6591.7	6408.2	-	Background	OxA-X-2358-55	V V	vsg	0.277			37,000 ± 3,000	0.01000 ± 0.00373
951	Bark	6591.7	6408.2	-	Background	OxA-X-2362-52	V V	g	0.617			> 44,300	0.00068 ± 0.00168
951	Bark	6591.7	6408.2	-	Background	OxA-X-2363-57	V V	G	1.714			> 53,800	0.00000 ± 0.00061
951	Bark	6591.7	6408.2	-	Background	SUERC-27525		g	0.964			49,962 ± 266	0.00199 ± 0.00007
951	Bark	6591.7	6408.2	-	Background	SUERC-27526		g	2.271			50,334 ± 223	0.00190 ± 0.00005
951	Bark	6591.7	6408.2	-	Background	SUERC-27527		g	3.755			52,903 ± 303	0.00138 ± 0.00005
976	Ev.br.leaf	6444.2	6265.3	-	Background	OxA-X-2340-37	V V	g	2.000			> 60,300	0.00000 ± 0.00028
976	Ev.br.leaf	6444.2	6265.3	-	Background	OxA-X-2340-38	V V	g	1.291			> 58,800	0.00000 ± 0.00033
976	Ev.br.leaf	6444.2	6265.3	-	Background	OxA-X-2356-47	V V	G	2.925			> 57,700	0.00000 ± 0.00038
976	Ev.br.leaf	6444.2	6265.3	-	Background	SUERC-27530		vsg	0.477			41,943 ± 165	0.00540 ± 0.00011
976	Ev.br.leaf	6444.2	6265.3	-	Background	SUERC-27531		g	1.661			52,450 ± 289	0.00146 ± 0.00005
976	Ev.br.leaf	6444.2	6265.3	-	Background	SUERC-27532		g	2.775			50,949 ± 281	0.00176 ± 0.00006

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
35	Wood	4691.1	4528.8	-	Background	OxA-X-2213-20	WW	g	1.104			> 54,800	0.00043 ± 0.00033
35	Wood	4691.1	4528.8	-	Background	OxA-X-2213-21	NRC	g	0.969			55,200 ± 2,900	0.00104 ± 0.00037
35	Wood	4691.1	4528.8	-	Background	OxA-X-2215-50	WW	G	3.157			> 53,400	0.00000 ± 0.00065
35	Wood	4691.1	4528.8	-	Background	OxA-X-2215-51	NRC	G	2.558			> 53,300	0.00000 ± 0.00065
35	Wood	4691.1	4528.8	-	Background	SUERC-13331		g	1.500			42,246 ± 154	0.00520 ± 0.00010
475	Dec.br.leaf & bud skin	4222.0	4065.9	55,727	-	OxA-24374	V V	G	1.586	46,236 ± 1,844	0.00316 ± 0.00073	44,000 ± 1,300	0.00417 ± 0.00069
304	Dec.br.leaf (*Fagus*)	4208.2	4052.1	55,472	-	OxA-24190	V V	G	2.760	> 56,852	0.00025 ± 0.00030	57,000 ± 2,000	0.00083 ± 0.00021
472	Dec.br.leaf	4198.6	4042.4	55,284	55,513	OxA-24388	V V	G	2.072	51,375 ± 2,616	0.00167 ± 0.00054	48,300 ± 1,800	0.00244 ± 0.00056
473	Dec.br.leaf	4180.9	4024.8	54,949	54,199	SUERC-26379		g	0.670	54,222 ± 8,319	0.00117 ± 0.00121	45,295 ± 1,368	0.00356 ± 0.00061
303	Dec.br.leaf	4151.1	3994.9	54,399	52,661	OxA-24442	V V	g	0.627	> 47,344	0.00019 ± 0.00128	< 41,000	0.00274 ± 0.00166
33	Bark	4135.0	3980.2	54,114	48,805	OxA-24242	V V	G	2.759	55,405 ± 2,580	0.00101 ± 0.00032	51,800 ± 1,200	0.00159 ± 0.00023
651	Dec.br.leaf	4126.3	3971.4	53,954	58,302	SUERC-27523		g	2.041	47,145 ± 1,748	0.00283 ± 0.00062	45,183 ± 1,349	0.00361 ± 0.00061
376	Dec.br.leaf	4123.7	3968.9	53,907	49,676	OxA-24298	V V	g	0.707	46,709 ± 3,151	0.00298 ± 0.00117	42,200 ± 800	0.00524 ± 0.00053
650	Dec.br.leaf	4117.7	3962.9	53,797	49,400	OxA-24401	V V	vsg	0.553	> 43,700	0.00000 ± 0.00217	< 42,100	0.00156 ± 0.00188
649	Dec.br.leaf	4113.0	3958.2	53,713	49,353	OxA-X-2362-20	V V	g	0.798	42,269 ± 2,140	0.00519 ± 0.00138	39,700 ± 1,500	0.00718 ± 0.00132
652	Dec.br.leaf	4105.4	3950.6	53,579	49,278	OxA-24307	V V	g	1.229	51,613 ± 3,367	0.00162 ± 0.00068	46,900 ± 1,000	0.00292 ± 0.00035
302	Dec.br.leaf	4103.0	3948.1	53,539	49,161	SUERC-18131		g	0.964	38,448 ± 1,247	0.00834 ± 0.00130	37,002 ± 963	0.00999 ± 0.00120
647	Dec.br.leaf	4097.7	3942.9	53,454	48,911	OxA-24428	V V	G	1.604	48,783 ± 2,382	0.00230 ± 0.00068	45,900 ± 1,600	0.00330 ± 0.00067
371	Dec.br.leaf	4095.5	3940.6	53,417	50,020	OxA-24283	V V	G	1.730	48,042 ± 1,635	0.00253 ± 0.00051	45,550 ± 750	0.00345 ± 0.00031
34	Aquatic plant (*Phragmites* ?)	4092.2	3937.4	53,360	-	SUERC-20946		g	5.732			46,423 ± 394	0.00309 ± 0.00015
646	Dec.br.leaf & Stem	4085.8	3931.0	53,246	50,705	OxA-24318	V V	g	0.900	46,459 ± 2,429	0.00308 ± 0.00093	42,800 ± 700	0.00485 ± 0.00044
375	Dec.br.leaf	4080.8	3926.0	53,161	48,209	OxA-24265	V V	g	1.185	> 52,950	0.00002 ± 0.00068	53,000 ± 2,100	0.00137 ± 0.00036
645	Dec.br.leaf	4075.2	3920.4	53,071	57,350	SUERC-26010		g	3.182	49,140 ± 2,015	0.00220 ± 0.00055	47,492 ± 1,795	0.00271 ± 0.00060
370	Dec.br.leaf	4066.0	3911.1	52,908	51,830	SUERC-23745		vsg	0.236	49,266 ± 12,865	0.00217 ± 0.00348	37,890 ± 2,493	0.00894 ± 0.00278
32	Aquatic plant (*Phragmites*)	4064.5	3909.7	52,885	53,159	OxA-24282	V V	G	2.840	49,055 ± 1,278	0.00223 ± 0.00035	47,250 ± 750	0.00279 ± 0.00027
32	Aquatic plant (*Phragmites*)	4064.5	3909.7	52,885	53,159	SUERC-28902		g	4.864	50,261 ± 2,264	0.00192 ± 0.00054	48,991 ± 2,157	0.00225 ± 0.00060
374	Dec.br.leaf	4060.3	3905.5	52,816	49,407	OxA-24254	V V	g	1.052	> 48,220	0.00092 ± 0.00078	48,300 ± 1,300	0.00244 ± 0.00040
372	Dec.br.leaf	4047.8	3893.0	52,597	51,874	OxA-24275	V V	G	1.811	49,889 ± 1,929	0.00201 ± 0.00048	46,950 ± 800	0.00289 ± 0.00028

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
298	Conifer needle	4042.1	3887.2	52,494	49,510	SUERC-26378		g	0.595	48,816 ± 4,811	0.00230 ± 0.00137	42,594 ± 980	0.00498 ± 0.00061
31	Twig	4031.0	3876.2	52,300	48,318	SUERC-26009		g	2.962	49,300 ± 1,023	0.00216 ± 0.00028	47,511 ± 207	0.00270 ± 0.00007
947	Dec.br.leaf & twig fragments	4026.4	3871.6	52,223	47,771	OxA-24384	V V	G	2.303	47,886 ± 1,618	0.00258 ± 0.00052	46,000 ± 1,200	0.00327 ± 0.00049
947	Dec.br.leaf & twig fragments	4026.4	3871.6	52,223	47,771	SUERC-27522		g	2.041	48,713 ± 2,066	0.00232 ± 0.00060	46,384 ± 1,562	0.00311 ± 0.00060
932	Dec.br.leaf	4023.4	3868.5	52,170	47,833	SUERC-27521		g	1.698	46,352 ± 1,704	0.00312 ± 0.00066	44,238 ± 1,199	0.00406 ± 0.00061
950	Dec.br.leaf	4016.5	3861.7	52,046	46,836	SUERC-28226		g	3.375	45,646 ± 1,367	0.00341 ± 0.00058	44,603 ± 1,248	0.00388 ± 0.00060
944	Dec.br.leaf	4016.3	3861.4	52,040	46,550	OxA-24358	V V	g	0.678	44,138 ± 3,004	0.00411 ± 0.00154	40,500 ± 1,900	0.00646 ± 0.00155
944	Dec.br.leaf	4016.3	3861.4	52,040	46,550	SUERC-27520		g	0.654	49,280 ± 4,663	0.00217 ± 0.00126	43,215 ± 1,064	0.00461 ± 0.00061
943	Dec.br.leaf	4011.7	3856.9	51,951	47,634	OxA-24397	V V	g	1.107	45,178 ± 2,226	0.00361 ± 0.00100	42,500 ± 1,500	0.00505 ± 0.00097
296	Dec.br.leaf	4011.7	3856.9	51,951	47,634	SUERC-17128		g	1.071	48,868 ± 3,663	0.00228 ± 0.00104	44,829 ± 2,552	0.00377 ± 0.00120
938	Dec.br.leaf	4004.3	3849.5	51,809	47,958	OxA-24346	V V	g	1.148	> 44,932	0.00195 ± 0.00089	45,800 ± 2,300	0.00334 ± 0.00094
948	Dec.br.leaf	3988.6	3833.8	51,516	49,119	SUERC-28223		vsg	0.471	52,229 ± 9,158	0.00150 ± 0.00171	42,741 ± 1,019	0.00489 ± 0.00062
940	Dec.br.leaf	3981.5	3826.7	51,388	48,370	OxA-24336	V V	g	1.431	50,191 ± 2,527	0.00193 ± 0.00061	46,500 ± 1,000	0.00305 ± 0.00038
939	Dec.br.leaf	3977.9	3823.0	51,323	47,321	OxA-X-2360-48	V V	G	1.604	42,927 ± 1,294	0.00478 ± 0.00077	41,400 ± 1,000	0.00577 ± 0.00071
939	Dec.br.leaf	3977.9	3823.0	51,323	47,321	SUERC-27787		g	2.812	47,785 ± 1,762	0.00261 ± 0.00057	46,204 ± 1,530	0.00318 ± 0.00061
936	Dec.br.leaf	3951.3	3796.5	50,827	46,635	OxA-X-2362-19	V V	g	0.649	41,582 ± 2,367	0.00565 ± 0.00166	38,700 ± 1,600	0.00810 ± 0.00161
934	Dec.br.leaf	3940.6	3785.8	50,638	46,374	SUERC-27786		g	1.591	47,677 ± 2,031	0.00264 ± 0.00067	45,094 ± 1,341	0.00365 ± 0.00061
379	Dec.br.leaf	3934.3	3779.4	50,531	47,223	OxA-24369	V V	G	1.750	43,127 ± 1,223	0.00466 ± 0.00071	41,700 ± 900	0.00557 ± 0.00065
924	Dec.br.leaf	3925.7	3770.8	50,400	44,278	SUERC-27785		g	0.879	49,375 ± 3,631	0.00214 ± 0.00097	44,438 ± 1,232	0.00396 ± 0.00061
921	Dec.br.leaf	3920.5	3765.7	50,309	47,546	OxA-24357	V V	g	1.044	42,316 ± 1,717	0.00516 ± 0.00110	40,200 ± 1,200	0.00668 ± 0.00103
919	Bark?	3893.7	3738.9	49,862	45,072	SUERC-28901		g	0.895	49,711 ± 3,721	0.00205 ± 0.00095	44,686 ± 1,271	0.00384 ± 0.00061
295	Dec.br.leaf	3892.5	3737.6	49,839	45,951	OxA-24230	V V	G	2.138	44,507 ± 903	0.00392 ± 0.00044	43,100 ± 450	0.00467 ± 0.00028
918	Bark	3877.2	3724.5	49,614	45,021	SUERC-27784		g	1.532	46,513 ± 1,814	0.00306 ± 0.00069	44,159 ± 1,190	0.00410 ± 0.00061
496	Dec.br.leaf	3870.9	3718.2	49,512	45,826	OxA-24317	V V	g	1.360	43,609 ± 1,186	0.00439 ± 0.00065	41,700 ± 500	0.00556 ± 0.00035
959	Dec.br.leaf	3861.7	3709.0	49,373	45,730	OxA-X-2374-18	V V	vsg	0.440	41,404 ± 3,221	0.00577 ± 0.00232	37,500 ± 2,000	0.00939 ± 0.00234
495	Dec.br.leaf	3835.6	3685.8	48,999	45,470	SUERC-28222		g	0.879	45,054 ± 2,252	0.00367 ± 0.00103	41,824 ± 1,052	0.00548 ± 0.00072
403	Dec.br.leaf	3828.8	3679.0	48,883	45,335	OxA-24335	V V	g	0.898	50,412 ± 3,935	0.00188 ± 0.00092	45,100 ± 1,000	0.00366 ± 0.00046
497	Dec.br.leaf	3818.9	3669.1	48,718	46,294	OxA-X-2340-29	V V	g	0.832	41,442 ± 1,445	0.00575 ± 0.00103	39,150 ± 550	0.00766 ± 0.00052
958	Dec.br.leaf	3802.8	3653.0	48,448	47,863	SUERC-28900		g	0.654	46,612 ± 3,376	0.00302 ± 0.00127	41,854 ± 897	0.00546 ± 0.00061
962	Bark fragment	3797.3	3647.5	48,358	46,731	SUERC-28221		g	1.087	46,526 ± 2,220	0.00305 ± 0.00084	43,374 ± 1,091	0.00452 ± 0.00061

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
291	Dec.br.leaf	3796.7	3646.9	48,351	44,162	OxA-24186	V V	g	1.381	49,142 ± 2,269	0.00220 ± 0.00062	45,800 ± 800	0.00336 ± 0.00035
291	Dec.br.leaf	3796.7	3646.9	48,351	44,162	SUERC-13334		g	1.286	39,129 ± 844	0.00767 ± 0.00081	37,970 ± 568	0.00890 ± 0.00060
S291	Sediment (humic fraction)	3796.7	3646.9	48,351	44,162	OxA-X-2226-22	SRb	g	1.356			43,750 ± 650	0.00430 ± 0.00034
S291	Sediment (humin fraction)	3796.7	3646.9	48,351	44,162	OxA-X-2236-11	SRa	g	0.870			33,270 ± 270	0.01589 ± 0.00054
S291	Sediment (humin fraction)	3796.7	3646.9	48,351	44,162	SUERC-18912		g	n/a			41,832 ± 1,752	0.00548 ± 0.00119
767	Dec.br.leaf	3787.9	3638.1	48,216	46,336	SUERC-28899		g	1.511	41,842 ± 1,076	0.00547 ± 0.00073	40,427 ± 746	0.00652 ± 0.00061
393, 763 & 773	Dec.br.leaf	3785.4	3635.6	48,173	43,247	OxA-24390	V V	g	1.310	44,844 ± 1,866	0.00376 ± 0.00087	42,600 ± 1,300	0.00498 ± 0.00083
289	Dec.br.leaf	3773.0	3623.2	47,976	44,786	OxA-24444	V V	g	0.677	40,244 ± 1,990	0.00667 ± 0.00165	37,800 ± 1,400	0.00902 ± 0.00157
392	Dec.br.leaf	3758.3	3608.5	47,724	43,956	OxA-24264	V V	g	0.974	47,015 ± 2,419	0.00287 ± 0.00086	43,400 ± 750	0.00451 ± 0.00043
759	Dec.br.leaf	3756.7	3606.9	47,697	44,253	SUERC-28898		g	1.002	37,332 ± 796	0.00959 ± 0.00095	36,105 ± 439	0.01117 ± 0.00061
771 & 391	Dec.br.leaf	3749.4	3599.6	47,578	45,562	OxA-24365	V V	g	0.786	47,306 ± 3,705	0.00277 ± 0.00128	42,900 ± 2,200	0.00480 ± 0.00134
766	Dec.br.leaf	3745.9	3596.1	47,527	47,674	OxA-24389	V V	g	1.317	43,247 ± 1,563	0.00459 ± 0.00089	41,400 ± 1,200	0.00580 ± 0.00083
288	Dec.br.leaf	3742.8	3593.0	47,477	45,252	OxA-24258	V V	g	1.204	49,178 ± 2,613	0.00219 ± 0.00071	45,400 ± 1,000	0.00352 ± 0.00042
762	Dec.br.leaf	3728.1	3578.3	47,250	46,398	OxA-24364	V V	g	0.698	47,265 ± 4,071	0.00278 ± 0.00141	42,500 ± 2,400	0.00507 ± 0.00150
762	Dec.br.leaf	3728.1	3578.3	47,250	46,398	SUERC-28897		g	0.787	43,775 ± 2,045	0.00430 ± 0.00109	40,677 ± 772	0.00632 ± 0.00061
29	Aquatic plant?	3707.4	3560.9	46,979	45,204	SUERC-20943		g	5.036	48,000 ± 3,399	0.00254 ± 0.00107	47,056 ± 3,362	0.00286 ± 0.00120
678 & 286	*Juniperus* ?	3700.1	3553.6	46,860	47,757	OxA-24427	V V	G	1.429	42,863 ± 1,378	0.00482 ± 0.00083	41,200 ± 1,000	0.00593 ± 0.00075
293	Dec.br.leaf	3692.1	3545.6	46,728	44,456	OxA-24199	V V	g	0.815	50,767 ± 4,499	0.00180 ± 0.00101	44,900 ± 1,000	0.00376 ± 0.00048
671	Dec.br.leaf	3679.1	3532.6	46,519	45,882	SUERC-28896		g	0.605	46,597 ± 3,613	0.00303 ± 0.00136	41,564 ± 867	0.00566 ± 0.00061
292	Dec.br.leaf	3673.2	3526.7	46,418	43,981	SUERC-20942		g	0.589	43,724 ± 2,863	0.00433 ± 0.00154	39,824 ± 1,366	0.00703 ± 0.00120
283	Dec.br.leaf	3656.2	3509.7	46,137	43,743	OxA-24241	V V	G	2.634	42,425 ± 772	0.00509 ± 0.00049	41,550 ± 600	0.00569 ± 0.00043
675	Dec.br.leaf	3656.2	3509.7	46,137	43,743	SUERC-27781		g	0.836	44,930 ± 2,239	0.00372 ± 0.00104	41,607 ± 873	0.00563 ± 0.00061
664	Dec.br.leaf	3638.1	3496.5	45,924	42,664	OxA-24387	V V	G	1.812	43,660 ± 1,249	0.00436 ± 0.00068	42,200 ± 1,000	0.00524 ± 0.00062
668	Dec.br.leaf	3635.6	3494.0	45,884	42,639	OxA-24343	V V	g	1.164	42,803 ± 1,257	0.00485 ± 0.00076	40,800 ± 550	0.00622 ± 0.00042
28	Twig	3608.0	3466.3	45,430	42,282	OxA-24221	V V	G	2.770	42,131 ± 583	0.00528 ± 0.00038	41,300 ± 390	0.00585 ± 0.00028
860	Bark	3596.4	3454.8	45,269	42,213	SUERC-28220		g	0.964	40,459 ± 1,483	0.00650 ± 0.00120	38,642 ± 1,076	0.00814 ± 0.00109
278	Stem?	3594.8	3453.2	45,246	41,254	OxA-24257	V V	g	0.772	43,817 ± 2,051	0.00428 ± 0.00109	40,650 ± 650	0.00634 ± 0.00052
354	Dec.br.leaf	3593.9	3452.3	45,233	42,362	SUERC-23742		g	0.514	43,123 ± 3,927	0.00466 ± 0.00228	39,031 ± 2,875	0.00776 ± 0.00278
749	Dec.br.leaf	3572.7	3432.1	44,962	41,599	OxA-24403	V V	vsg	0.398	39,445 ± 2,845	0.00737 ± 0.00261	36,000 ± 1,800	0.01136 ± 0.00258

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
746	Bark	3562.5	3423.4	44,838	42,516	OxA-24362	UW	g	0.999	39,455 ± 1,295	0.00736 ± 0.00119	37,900 ± 1,000	0.00895 ± 0.00107
746	Bark	3562.5	3423.4	44,838	42,516	OxA-24363	UW	g	1.145	43,181 ± 1,742	0.00463 ± 0.00100	41,100 ± 1,300	0.00602 ± 0.00094
746	Bark	3562.5	3423.4	44,838	42,516	SUERC-28219		g	6.016	40,682 ± 757	0.00632 ± 0.00060	40,353 ± 738	0.00658 ± 0.00060
752	Dec.br.leaf	3557.0	3417.9	44,770	41,357	SUERC-28892		g	1.912	42,155 ± 1,024	0.00526 ± 0.00067	40,975 ± 802	0.00609 ± 0.00061
337	Dec.br.leaf	3546.7	3408.6	44,616	41,236	OxA-24253	V V	g	1.075	43,501 ± 1,461	0.00445 ± 0.00081	41,200 ± 600	0.00593 ± 0.00043
747	Twig	3541.8	3403.7	44,545	41,546	OxA-X-2360-43	UW	G	1.835	38,751 ± 729	0.00804 ± 0.00073	37,950 ± 600	0.00890 ± 0.00065
747	Twig	3541.8	3403.7	44,545	41,546	SUERC-28218		g	7.232	40,909 ± 777	0.00614 ± 0.00059	40,626 ± 763	0.00636 ± 0.00060
355	Dec.br.leaf	3525.3	3387.2	44,318	40,600	OxA-24290	V V	g	0.943	41,268 ± 1,243	0.00587 ± 0.00091	39,250 ± 450	0.00756 ± 0.00043
753	Bark	3523.9	3385.8	44,297	41,111	SUERC-28891		g	3.016	38,433 ± 606	0.00836 ± 0.00063	37,942 ± 550	0.00889 ± 0.00061
275	Dec.br.leaf	3521.1	3383.0	44,255	39,191	SUERC-23741		vsg	0.262	44,842 ± 6,902	0.00376 ± 0.00323	37,126 ± 2,267	0.00984 ± 0.00278
1132	Dec.br.leaf	3510.6	3372.5	44,097	39,966	OxA-24454	V V	g	0.963	39,433 ± 1,335	0.00738 ± 0.00123	37,800 ± 1,000	0.00903 ± 0.00111
274	Dec.br.leaf	3506.6	3368.5	44,042	40,927	OxA-24205	V V	g	0.933	39,748 ± 1,060	0.00710 ± 0.00094	38,000 ± 450	0.00880 ± 0.00048
986	Dec.br.leaf	3506.6	3368.5	44,042	40,927	SUERC-27780		g	1.098	40,012 ± 1,034	0.00687 ± 0.00088	38,476 ± 592	0.00831 ± 0.00061
983	Dec.br.leaf	3486.7	3349.1	43,721	40,628	OxA-24383	V V	G	2.035	40,758 ± 812	0.00626 ± 0.00063	39,800 ± 650	0.00704 ± 0.00056
983	Dec.br.leaf	3486.7	3349.1	43,721	40,628	SUERC-27779		g	1.500	39,716 ± 849	0.00713 ± 0.00075	38,603 ± 603	0.00818 ± 0.00061
1133	Includes twig fragments	3484.0	3346.4	43,677	40,841	SUERC-29856		g	1.050	41,455 ± 1,259	0.00574 ± 0.00090	39,573 ± 677	0.00725 ± 0.00061
982	Dec.br.leaf	3473.4	3335.8	43,511	40,853	OxA-24334	V V	g	1.181	42,352 ± 1,189	0.00513 ± 0.00076	40,500 ± 550	0.00648 ± 0.00044
270	Dec.br.leaf	3467.0	3329.4	43,408	41,122	SUERC-26008		g	0.536	32,998 ± 764	0.01644 ± 0.00156	31,678 ± 256	0.01938 ± 0.00062
272	Dec.br.leaf	3467.0	3329.4	43,408	41,122	OxA-24252	V V	g	1.002	42,755 ± 1,419	0.00488 ± 0.00086	40,500 ± 550	0.00647 ± 0.00044
1134	Dec.br.leaf	3467.0	3329.4	43,408	41,122	SUERC-29855		g	2.196	40,567 ± 821	0.00641 ± 0.00065	39,707 ± 684	0.00713 ± 0.00061
1100	Dec.br.leaf	3461.7	3324.1	43,321	41,167	OxA-X-2362-50	V V	g	0.602	34,975 ± 1,217	0.01286 ± 0.00195	33,500 ± 900	0.01548 ± 0.00173
269	Dec.br.leaf	3455.0	3317.4	43,210	41,225	OxA-24466	V V	g	0.622	37,395 ± 1,549	0.00951 ± 0.00183	35,500 ± 1,100	0.01206 ± 0.00167
1097	Stem fragments	3439.3	3301.7	42,940	40,587	OxA-24472	V V	vsg	0.441	37,881 ± 2,205	0.00895 ± 0.00246	35,200 ± 1,500	0.01255 ± 0.00234
268	Aquatic plant?	3425.5	3287.9	42,699	39,106	OxA-24256	V V	g	1.057	41,116 ± 1,125	0.00599 ± 0.00084	39,300 ± 500	0.00749 ± 0.00046
266	Dec.br.leaf	3411.9	3274.3	42,464	38,666	OxA-24219	V V	g	0.681	38,158 ± 1,178	0.00865 ± 0.00127	36,250 ± 450	0.01098 ± 0.00063
266	Dec.br.leaf	3411.9	3274.3	42,464	38,666	SUERC-20500		g	0.964	42,034 ± 1,852	0.00534 ± 0.00123	39,870 ± 1,373	0.00699 ± 0.00119
1101 & 1105	Stem fragments	3408.2	3270.5	42,397	39,434	OxA-24465	V V	g	0.984	37,859 ± 1,098	0.00898 ± 0.00123	36,500 ± 800	0.01059 ± 0.00109
1011	Dec.br.leaf	3406.2	3268.6	42,362	39,274	OxA-24443	V V	g	0.851	36,563 ± 1,091	0.01055 ± 0.00143	35,300 ± 800	0.01241 ± 0.00128
265	Twig	3394.7	3257.1	42,165	37,923	SUERC-29826		g	0.804	40,723 ± 1,401	0.00629 ± 0.00110	38,524 ± 598	0.00826 ± 0.00062
1010	Bark	3391.9	3254.3	42,118	39,603	OxA-24396	V V	g	1.279	37,831 ± 878	0.00901 ± 0.00098	36,800 ± 700	0.01025 ± 0.00087
263	Dec.br.leaf	3391.7	3254.1	42,115	37,949	SUERC-17124		g	6.803	40,584 ± 1,455	0.00640 ± 0.00116	40,296 ± 1,448	0.00663 ± 0.00119
258	Non-leaf	3386.8	3249.1	42,034	37,529	OxA-24289	V V	g	0.839	38,628 ± 1,006	0.00816 ± 0.00102	36,950 ± 370	0.01005 ± 0.00047

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
1135a	Moss	3360.9	3226.8	41,616	38,475	OxA-24452	V V	g	1.168	36,349 ± 845	0.01083 ± 0.00114	35,400 ± 700	0.01219 ± 0.00103
1135a	Moss	3360.9	3226.8	41,616	38,475	OxA-24453	V V	g	1.000	36,142 ± 891	0.01112 ± 0.00123	35,050 ± 700	0.01270 ± 0.00108
1135b	Bark	3360.9	3226.8	41,616	38,475	OxA-24437	UW	G	2.143	36,509 ± 485	0.01062 ± 0.00064	35,970 ± 390	0.01136 ± 0.00056
1135b	Bark	3360.9	3226.8	41,616	38,475	SUERC-29853		g	3.777	38,721 ± 617	0.00806 ± 0.00062	38,313 ± 580	0.00848 ± 0.00061
261	Dec.br.leaf	3347.1	3213.0	41,400	36,354	OxA-24198	V V	vsg	0.428	38,694 ± 1,934	0.00809 ± 0.00195	35,650 ± 550	0.01180 ± 0.00084
1170	Dec.br.leaf	3335.1	3201.0	41,214	36,341	OxA-24464	V V	vsg	0.495	34,867 ± 1,430	0.01303 ± 0.00232	33,100 ± 1,000	0.01622 ± 0.00209
256	Dec.br.leaf	3309.0	3174.8	40,798	35,455	OxA-24229	V V	G	2.015	36,001 ± 367	0.01131 ± 0.00052	35,460 ± 240	0.01210 ± 0.00036
973	Dec.br.leaf	3305.1	3171.0	40,736	35,395	SUERC-27778		g	0.825	35,497 ± 732	0.01205 ± 0.00110	34,312 ± 356	0.01396 ± 0.00062
1171	Dec.br.leaf	3299.4	3165.3	40,647	35,305	OxA-24451	V V	vsg	0.536	33,503 ± 1,143	0.01544 ± 0.00220	32,100 ± 800	0.01838 ± 0.00194
975	Dec.br.leaf	3277.1	3143.0	40,290	34,818	SUERC-27777		g	0.659	34,283 ± 752	0.01401 ± 0.00131	33,016 ± 305	0.01641 ± 0.00062
1006	Dec.br.leaf	3275.3	3141.1	40,258	36,722	OxA-24402	V V	vsg	0.499	34,876 ± 1,423	0.01302 ± 0.00231	33,100 ± 1,000	0.01618 ± 0.00208
252	Dec.br.leaf	3258.3	3126.4	40,015	36,247	OxA-24185	V V	vsg	0.435	40,788 ± 2,460	0.00623 ± 0.00191	37,100 ± 700	0.00989 ± 0.00084
1049	Dec.br.leaf	3258.3	3126.4	40,015	36,247	SUERC-29852		g	0.793	37,121 ± 917	0.00984 ± 0.00112	35,637 ± 416	0.01184 ± 0.00061
1004	Dec.br.leaf	3236.7	3104.8	39,651	34,926	SUERC-29825		g	1.971	36,744 ± 542	0.01032 ± 0.00070	36,141 ± 442	0.01112 ± 0.00061
250	Dec.br.leaf	3226.6	3094.7	39,475	36,532	OxA-24228	V V	G	1.992	34,728 ± 320	0.01326 ± 0.00053	34,260 ± 210	0.01405 ± 0.00037
413	Dec.br.leaf	3224.9	3093.1	39,447	35,500	OxA-24471	V V	vsg	0.412	33,648 ± 1,479	0.01517 ± 0.00279	31,800 ± 1,100	0.01899 ± 0.00254
412	Dec.br.leaf	3222.8	3091.0	39,412	36,063	SUERC-26377		g	0.734	36,194 ± 870	0.01105 ± 0.00120	34,762 ± 373	0.01320 ± 0.00061
1050	Dec.br.leaf	3215.6	3083.8	39,293	35,379	SUERC-29851		g	0.825	37,140 ± 892	0.00982 ± 0.00109	35,705 ± 420	0.01174 ± 0.00061
744	Dec.br.leaf	3191.0	3059.2	38,886	35,658	OxA-24356	V V	g	0.687	34,836 ± 1,067	0.01308 ± 0.00174	33,550 ± 800	0.01538 ± 0.00153
744	Dec.br.leaf	3191.0	3059.2	38,886	35,658	SUERC-28217		g	1.800	34,858 ± 456	0.01305 ± 0.00074	34,335 ± 367	0.01392 ± 0.00064
1047	Dec.br.leaf	3174.3	3042.5	38,604	35,161	OxA-24436	V V	G	1.726	34,287 ± 446	0.01401 ± 0.00078	33,780 ± 360	0.01492 ± 0.00067
247	Dec.br.leaf	3174.3	3042.5	38,604	35,161	SUERC-16527		vsg	0.434	32,838 ± 885	0.01677 ± 0.00185	31,265 ± 139	0.02040 ± 0.00040
743	Dec.br.leaf	3174.3	3042.5	38,604	35,161	SUERC-28890		g	0.787	35,660 ± 772	0.01181 ± 0.00113	34,399 ± 357	0.01381 ± 0.00061
1046	Dec.br.leaf	3165.7	3033.8	38,460	34,499	SUERC-29850		g	0.804	36,389 ± 831	0.01078 ± 0.00112	35,041 ± 387	0.01275 ± 0.00061
246	Dec.br.leaf	3163.4	3031.6	38,420	35,141	OxA-24218	V V	g	0.803	34,213 ± 634	0.01414 ± 0.00112	33,170 ± 300	0.01610 ± 0.00060
246	Dec.br.leaf	3163.4	3031.6	38,420	35,141	SUERC-19064		vsg	0.482	27,308 ± 402	0.03339 ± 0.00167	26,565 ± 110	0.03660 ± 0.00050
887	Dec.br.leaf	3159.3	3027.4	38,352	35,676	OxA-24341	V V	g	0.814	34,158 ± 619	0.01423 ± 0.00110	33,130 ± 290	0.01617 ± 0.00058
887	Dec.br.leaf	3159.3	3027.4	38,352	35,676	OxA-24342	V V	g	0.828	34,940 ± 678	0.01291 ± 0.00109	33,830 ± 320	0.01482 ± 0.00060
1041	Stem	3152.5	3020.7	38,241	34,657	SUERC-29846		g	1.500	35,957 ± 545	0.01138 ± 0.00077	35,245 ± 397	0.01243 ± 0.00061
1042	Dec.br.leaf	3151.4	3020.0	38,222	34,933	SUERC-29864		g	0.707	36,043 ± 880	0.01126 ± 0.00123	34,587 ± 366	0.01349 ± 0.00062
468	Dec.br.leaf	3146.3	3014.9	38,139	35,913	OxA-24327	V V	G	1.836	34,199 ± 332	0.01416 ± 0.00058	33,730 ± 220	0.01502 ± 0.00042
1033	Dec.br.leaf	3136.8	3005.5	37,987	34,649	SUERC-29845		g	1.618	35,580 ± 507	0.01192 ± 0.00075	34,947 ± 386	0.01290 ± 0.00062
245	Conifer needle	3133.6	3002.3	37,942	34,867	SUERC-20501		g	2.518	36,684 ± 902	0.01039 ± 0.00117	36,212 ± 869	0.01102 ± 0.00119
1037	Bark	3130.3	2998.9	37,899	35,398	OxA-24435	UW	G	1.916	34,514 ± 422	0.01362 ± 0.00072	34,040 ± 340	0.01444 ± 0.00062

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
1040	Bark	3125.2	2993.9	37,831	35,454	OxA-24434	V V	G	1.890	34,485 ± 427	0.01367 ± 0.00073	34,010 ± 350	0.01450 ± 0.00063
1040	Bark	3125.2	2993.9	37,831	35,454	SUERC-29844		g	2.015	35,378 ± 458	0.01223 ± 0.00070	34,879 ± 379	0.01301 ± 0.00061
1027	Stem	3105.5	2975.7	37,559	34,689	SUERC-29843		g	1.548	35,636 ± 517	0.01184 ± 0.00076	34,972 ± 384	0.01286 ± 0.00061
242	Dec.br.leaf	3071.7	2951.5	37,028	34,711	OxA-X-2374-11	V V	vsg	0.482	31,029 ± 944	0.02101 ± 0.00247	29,850 ± 700	0.02426 ± 0.00214
418	Dec.br.leaf	3064.3	2944.1	36,920	34,716	OxA-24441	V V	g	0.638	34,490 ± 1,099	0.01366 ± 0.00187	33,200 ± 800	0.01613 ± 0.00165
240	Dec.br.leaf	3056.2	2935.9	36,790	34,003	SUERC-17129		g	2.036	34,995 ± 748	0.01282 ± 0.00119	34,524 ± 707	0.01360 ± 0.00120
1007	Dec.br.leaf	3051.1	2930.9	36,709	33,808	OxA-X-2357-20	V V	g	1.284	32,662 ± 487	0.01715 ± 0.00104	32,110 ± 390	0.01837 ± 0.00090
1007	Dec.br.leaf	3051.1	2930.9	36,709	33,808	SUERC-29824		g	1.746	33,941 ± 405	0.01462 ± 0.00074	33,460 ± 320	0.01553 ± 0.00062
239	Dec.br.leaf	3048.5	2928.3	36,671	33,972	SUERC-18132		g	4.018	32,106 ± 518	0.01837 ± 0.00119	31,937 ± 511	0.01877 ± 0.00119
421	Dec.br.leaf	3045.6	2925.4	36,626	33,225	SUERC-29823		g	0.900	34,787 ± 631	0.01316 ± 0.00103	33,782 ± 332	0.01491 ± 0.00062
416	Dec.br.leaf	3040.9	2920.7	36,554	33,748	OxA-24326	V V	G	2.110	33,176 ± 263	0.01608 ± 0.00053	32,810 ± 190	0.01683 ± 0.00039
420 & 1020	Dec.br.leaf	3036.5	2916.8	36,485	33,522	OxA-24463	V V	vsg	0.557	31,582 ± 896	0.01961 ± 0.00219	30,500 ± 700	0.02243 ± 0.00191
1019	Dec.br.leaf	3033.7	2914.5	36,435	33,532	SUERC-29822		g	1.848	33,538 ± 379	0.01537 ± 0.00072	33,105 ± 306	0.01623 ± 0.00062
415	Dec.br.leaf	3011.2	2891.9	36,098	33,406	OxA-24382	V V	G	2.653	33,501 ± 307	0.01545 ± 0.00059	33,200 ± 270	0.01604 ± 0.00053
238	Dec.br.leaf	3010.1	2890.9	36,081	33,452	SUERC-17724		g	1.018	30,514 ± 489	0.02240 ± 0.00136	29,981 ± 404	0.02394 ± 0.00120
425	Dec.br.leaf	3006.7	2887.5	36,027	33,599	OxA-24316	V V	g	1.304	33,262 ± 374	0.01591 ± 0.00074	32,680 ± 220	0.01712 ± 0.00046
237	Bark	3002.5	2883.2	35,952	33,521	OxA-24240	V V	G	2.515	33,660 ± 251	0.01514 ± 0.00047	33,330 ± 190	0.01577 ± 0.00037
27	Twig	3002.1	2882.9	35,944	33,576	SUERC-20941		g	3.107	34,569 ± 697	0.01352 ± 0.00117	34,273 ± 680	0.01403 ± 0.00119
1021	Dec.br.leaf	2999.8	2880.6	35,896	33,794	OxA-24430	V V	G	1.906	32,925 ± 364	0.01659 ± 0.00075	32,530 ± 310	0.01742 ± 0.00066
1021	Dec.br.leaf	2999.8	2880.6	35,896	33,794	SUERC-29821		g	2.448	33,854 ± 366	0.01478 ± 0.00067	33,512 ± 321	0.01543 ± 0.00062
1008	Dec.br.leaf	2991.6	2872.4	35,747	33,388	OxA-24395	V V	g	1.432	33,319 ± 484	0.01580 ± 0.00095	32,780 ± 390	0.01690 ± 0.00083
1008	Dec.br.leaf	2991.6	2872.4	35,747	33,388	SUERC-29820		g	2.132	33,803 ± 375	0.01488 ± 0.00069	33,413 ± 317	0.01562 ± 0.00062
740	Dec.br.leaf	2983.1	2863.8	35,610	33,351	SUERC-28889		g	1.345	33,219 ± 432	0.01600 ± 0.00086	32,652 ± 316	0.01717 ± 0.00067
235	Dec.br.leaf	2972.7	2853.4	35,444	33,361	OxA-24217	V V	g	1.547	33,028 ± 343	0.01638 ± 0.00070	32,540 ± 240	0.01740 ± 0.00051
736	Dec.br.leaf	2965.3	2846.1	35,326	32,963	OxA-24361	V V	g	0.875	34,093 ± 797	0.01435 ± 0.00142	33,150 ± 600	0.01615 ± 0.00124
733	Dec.br.leaf	2965.3	2846.1	35,326	32,963	SUERC-28216		g	0.761	33,163 ± 648	0.01611 ± 0.00130	32,192 ± 390	0.01818 ± 0.00088
234	Dec.br.leaf	2956.8	2837.5	35,192	32,913	OxA-24204	V V	g	0.989	33,310 ± 475	0.01582 ± 0.00094	32,540 ± 250	0.01741 ± 0.00054
731	Dec.br.leaf	2949.3	2830.1	35,066	33,406	SUERC-28888		g	0.734	32,002 ± 522	0.01861 ± 0.00121	31,128 ± 241	0.02075 ± 0.00062
730	Dec.br.leaf	2945.3	2826.0	34,999	32,712	OxA-24400	V V	vsg	0.595	34,240 ± 1,128	0.01409 ± 0.00198	32,900 ± 800	0.01674 ± 0.00174
729	Dec.br.leaf	2942.3	2823.0	34,947	32,536	SUERC-29860		g	0.605	33,574 ± 739	0.01531 ± 0.00141	32,312 ± 278	0.01791 ± 0.00062
728	Dec.br.leaf	2938.5	2819.3	34,884	32,332	OxA-24426	V V	G	2.173	32,667 ± 330	0.01714 ± 0.00070	32,330 ± 280	0.01786 ± 0.00063
233	Twig	2935.8	2816.6	34,841	32,610	SUERC-28887		g	2.175	31,795 ± 294	0.01910 ± 0.00070	31,497 ± 252	0.01982 ± 0.00062

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
912	Dec.br.leaf	2931.4	2812.2	34,765	32,123	OxA-24349	V V	g	1.018	33,072 ± 622	0.01629 ± 0.00126	32,350 ± 500	0.01784 ± 0.00109
912	Dec.br.leaf	2931.4	2812.2	34,765	32,123	OxA-24350	V V	g	1.162	33,150 ± 563	0.01614 ± 0.00113	32,500 ± 450	0.01749 ± 0.00098
912	Dec.br.leaf	2931.4	2812.2	34,765	32,123	SUERC-27775		g	2.411	32,152 ± 310	0.01827 ± 0.00071	31,871 ± 275	0.01892 ± 0.00065
463	Dec.br.leaf	2927.9	2808.7	34,703	32,182	SUERC-26376		g	1.570	32,236 ± 343	0.01808 ± 0.00077	31,803 ± 262	0.01908 ± 0.00062
459	Dec.br.leaf	2926.7	2807.5	34,684	32,114	OxA-24306	V V	g	1.112	32,158 ± 372	0.01826 ± 0.00085	31,560 ± 200	0.01967 ± 0.00050
727	Dec.br.leaf	2923.8	2804.6	34,636	31,892	SUERC-28213		g	0.975	31,973 ± 427	0.01868 ± 0.00099	31,309 ± 249	0.02029 ± 0.00063
232	Dec.br.leaf	2906.5	2787.3	34,336	31,781	OxA-24227	V V	G	2.255	31,367 ± 219	0.02014 ± 0.00055	31,090 ± 170	0.02084 ± 0.00044
456	Dec.br.leaf	2904.9	2785.6	34,310	31,656	SUERC-26005		g	0.782	31,687 ± 479	0.01936 ± 0.00115	30,895 ± 235	0.02136 ± 0.00063
908	Dec.br.leaf	2898.9	2779.7	34,209	31,651	OxA-24386	V V	G	1.858	31,933 ± 325	0.01878 ± 0.00076	31,580 ± 270	0.01962 ± 0.00066
907	Dec.br.leaf	2896.6	2777.3	34,167	31,788	SUERC-29817		vsg	0.477	32,130 ± 762	0.01832 ± 0.00174	30,802 ± 235	0.02161 ± 0.00063
906	Dec.br.leaf	2895.9	2776.7	34,157	31,584	SUERC-27774		g	0.830	32,112 ± 485	0.01836 ± 0.00111	31,324 ± 252	0.02025 ± 0.00064
914	Dec.br.leaf	2893.3	2774.1	34,113	31,865	OxA-24381	V V	G	1.901	31,351 ± 301	0.02019 ± 0.00076	31,030 ± 250	0.02101 ± 0.00066
462 & 1086	Dec.br.leaf	2884.1	2764.8	33,952	31,472	OxA-24482	V V	vsg	0.393	29,759 ± 981	0.02461 ± 0.00300	28,550 ± 750	0.02858 ± 0.00261
1085	Dec.br.leaf	2872.0	2752.8	33,726	29,989	SUERC-29842		g	0.954	31,687 ± 417	0.01936 ± 0.00100	31,032 ± 238	0.02100 ± 0.00062
1092 & 458	Dec.br.leaf	2869.5	2750.3	33,680	30,977	OxA-24481	V V	vsg	0.477	29,521 ± 805	0.02535 ± 0.00254	28,550 ± 600	0.02862 ± 0.00219
1082	Dec.br.leaf	2866.8	2747.6	33,633	30,446	OxA-24480	VV	vsg	0.418	30,348 ± 993	0.02287 ± 0.00283	29,150 ± 750	0.02661 ± 0.00246
454 & 1090	Dec.br.leaf	2862.9	2743.7	33,561	30,960	OxA-24462	V V	g	0.779	30,077 ± 551	0.02365 ± 0.00162	29,400 ± 450	0.02566 ± 0.00138
905	Dec.br.leaf	2861.4	2742.2	33,534	30,499	SUERC-27771		g	0.707	31,358 ± 496	0.02017 ± 0.00125	30,520 ± 224	0.02239 ± 0.00063
913	Dec.br.leaf	2857.7	2738.5	33,467	30,891	OxA-24355	V V	g	1.403	30,589 ± 362	0.02219 ± 0.00100	30,190 ± 300	0.02331 ± 0.00087
904	Dec.br.leaf	2852.7	2733.4	33,379	30,919	SUERC-27770		g	0.846	30,415 ± 388	0.02268 ± 0.00110	29,786 ± 208	0.02453 ± 0.00064
903	Dec.br.leaf	2852.1	2732.9	33,369	30,279	OxA-24376	V V	g	1.024	31,056 ± 491	0.02094 ± 0.00128	30,490 ± 390	0.02247 ± 0.00110
903	Dec.br.leaf	2852.1	2732.9	33,369	30,279	OxA-24377	V V	g	1.085	31,407 ± 488	0.02004 ± 0.00122	30,850 ± 390	0.02149 ± 0.00105
724	Dec.br.leaf	2850.9	2731.6	33,348	30,448	OxA-24469	V V	vsg	0.450	29,768 ± 866	0.02458 ± 0.00265	28,700 ± 650	0.02805 ± 0.00228
1024	Dec.br.leaf	2845.5	2726.3	33,285	30,562	OxA-24394	V V	g	0.902	29,697 ± 469	0.02480 ± 0.00145	29,160 ± 380	0.02653 ± 0.00124
1024	Dec.br.leaf	2845.5	2726.3	33,285	30,562	OxA-24429	V V	G	1.610	29,887 ± 286	0.02422 ± 0.00086	29,570 ± 240	0.02519 ± 0.00074
394	Dec.br.leaf	2845.5	2726.3	33,285	30,562	SUERC-23351		g	1.441	30,604 ± 458	0.02215 ± 0.00126	30,220 ± 413	0.02324 ± 0.00119
465	Dec.br.leaf	2842.5	2724.1	33,242	30,033	SUERC-28238		g	1.457	30,360 ± 282	0.02284 ± 0.00080	29,992 ± 209	0.02391 ± 0.00062
1072	Conifer needle	2834.5	2716.1	33,099	30,103	OxA-24479	V V	vsg	0.318	28,897 ± 1,072	0.02740 ± 0.00366	27,600 ± 800	0.03229 ± 0.00319
719	Dec.br.leaf	2829.7	2711.2	33,020	29,783	OxA-24399	V V	vsg	0.547	30,337 ± 775	0.02290 ± 0.00221	29,400 ± 600	0.02576 ± 0.00189
1069	Dec.br.leaf	2824.0	2705.5	32,923	29,532	SUERC-29841		g	1.586	29,634 ± 252	0.02500 ± 0.00079	29,324 ± 197	0.02598 ± 0.00064
227	Dec.br.leaf	2822.2	2703.7	32,892	29,215	SUERC-17127		g	1.661	29,496 ± 394	0.02543 ± 0.00125	29,205 ± 365	0.02637 ± 0.00120
395 & 396	Dec.br.leaf	2816.4	2697.9	32,795	29,077	OxA-24360	V V	g	0.784	28,405 ± 451	0.02913 ± 0.00164	27,880 ± 360	0.03111 ± 0.00139
1068	Dec.br.leaf	2816.4	2697.9	32,795	29,077	SUERC-29840		g	3.204	29,239 ± 203	0.02626 ± 0.00066	29,092 ± 189	0.02674 ± 0.00063

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
397	Dec.br.leaf	2800.9	2684.3	32,563	29,017	OxA-24325	V V	G	1.800	28,466 ± 187	0.02891 ± 0.00067	28,230 ± 140	0.02977 ± 0.00053
1075	Dec.br.leaf	2800.9	2684.3	32,563	29,017	SUERC-29836		g	2.909	28,685 ± 193	0.02813 ± 0.00068	28,534 ± 177	0.02867 ± 0.00063
714	Dec.br.leaf	2797.6	2681.6	32,510	28,662	SUERC-28237		g	0.750	29,232 ± 379	0.02628 ± 0.00124	28,621 ± 205	0.02835 ± 0.00072
402	Dec.br.leaf	2794.7	2678.6	32,461	28,564	OxA-24315	V V	g	1.197	28,985 ± 250	0.02710 ± 0.00084	28,610 ± 160	0.02840 ± 0.00056
1066	Dec.br.leaf	2792.1	2676.1	32,416	28,657	SUERC-29835		g	0.814	28,175 ± 302	0.02997 ± 0.00113	27,680 ± 160	0.03188 ± 0.00064
398	Dec.br.leaf vein network	2780.9	2664.8	32,220	28,180	OxA-24461	V V	vsg	0.533	27,068 ± 540	0.03440 ± 0.00231	26,400 ± 400	0.03730 ± 0.00195
1067	Dec.br.leaf	2779.6	2664.1	32,197	28,167	SUERC-29834		vsg	0.471	24,023 ± 279	0.05026 ± 0.00175	23,524 ± 106	0.05348 ± 0.00070
226	Dec.br.leaf	2770.1	2654.5	32,028	28,071	OxA-24216	V V	g	0.780	27,684 ± 308	0.03186 ± 0.00122	27,200 ± 180	0.03385 ± 0.00075
709	Dec.br.leaf	2757.5	2642.0	31,816	28,341	OxA-24354	V V	g	0.816	28,174 ± 427	0.02998 ± 0.00159	27,680 ± 340	0.03188 ± 0.00136
330	Dec.br.leaf	2752.8	2637.3	31,737	28,473	SUERC-23348		g	1.864	28,838 ± 359	0.02760 ± 0.00123	28,599 ± 337	0.02843 ± 0.00119
225	Dec.br.leaf	2751.6	2636.0	31,716	28,599	OxA-24251	V V	g	0.981	28,957 ± 297	0.02719 ± 0.00100	28,500 ± 180	0.02878 ± 0.00065
329	Dec.br.leaf	2743.4	2627.9	31,560	28,378	SUERC-20940		g	1.607	28,423 ± 345	0.02906 ± 0.00125	28,160 ± 318	0.03003 ± 0.00119
521	Dec.br.leaf	2737.6	2622.1	31,437	28,042	OxA-24305	V V	g	0.888	27,953 ± 275	0.03081 ± 0.00105	27,510 ± 150	0.03256 ± 0.00062
890	Dec.br.leaf	2737.6	2622.1	31,437	28,042	SUERC-28210		g	1.104	28,396 ± 256	0.02916 ± 0.00093	28,018 ± 167	0.03057 ± 0.00064
522	Bark	2730.8	2615.3	31,306	28,005	SUERC-26004		g	2.384	27,825 ± 181	0.03131 ± 0.00070	27,660 ± 160	0.03196 ± 0.00064
331	Dec.br.leaf	2728.2	2612.7	31,256	27,809	SUERC-28915		g	0.648	26,984 ± 309	0.03477 ± 0.00134	26,451 ± 140	0.03715 ± 0.00065
223	Dec.br.leaf	2726.9	2611.4	31,232	27,270	OxA-24184	V V	vsg	0.249	29,703 ± 1,094	0.02478 ± 0.00338	27,890 ± 390	0.03105 ± 0.00151
S223	Sediment (humic fraction)	2726.9	2611.4	31,232	27,270	OxA-X-2226-44	SRb	g	0.769			27,190 ± 160	0.03387 ± 0.00069
S223	Sediment (humin fraction)	2726.9	2611.4	31,232	27,270	OxA-X-2236-10	SRa	g	0.880			26,480 ± 150	0.03700 ± 0.00070
S223	Sediment (humin fraction)	2726.9	2611.4	31,232	27,270	SUERC-18046		g	n/a			27,080 ± 283	0.03435 ± 0.00121
891	Dec.br.leaf	2723.0	2607.5	31,152	27,195	OxA-24340	V V	g	1.159	27,154 ± 221	0.03404 ± 0.00093	26,850 ± 160	0.03537 ± 0.00068
889	Dec.br.leaf	2702.5	2587.0	30,807	26,931	OxA-24385	V V	G	1.605	26,789 ± 206	0.03562 ± 0.00092	26,570 ± 170	0.03658 ± 0.00080
328	Dec.br.leaf	2697.8	2582.3	30,730	26,777	SUERC-20947		g	1.661	26,800 ± 282	0.03557 ± 0.00125	26,593 ± 261	0.03650 ± 0.00119
222	Dec.br.leaf	2694.1	2578.5	30,666	26,556	OxA-24234	V V	g	0.977	26,839 ± 224	0.03540 ± 0.00099	26,490 ± 130	0.03698 ± 0.00062
224	Dec.br.leaf	2691.5	2576.0	30,623	26,366	SUERC-20939		g	2.571	26,602 ± 271	0.03646 ± 0.00123	26,471 ± 263	0.03706 ± 0.00121
524	Twig fragments	2687.8	2572.3	30,563	26,312	OxA-24296	V V	g	0.819	25,703 ± 225	0.04078 ± 0.00114	25,340 ± 130	0.04265 ± 0.00068
888	Dec.br.leaf	2671.1	2555.5	30,325	25,735	OxA-24359	V V	g	0.809	26,402 ± 347	0.03738 ± 0.00162	26,000 ± 280	0.03928 ± 0.00137
221	Dec.br.leaf	2671.1	2555.5	30,325	25,735	SUERC-20504		g	0.643	25,518 ± 316	0.04173 ± 0.00164	25,071 ± 216	0.04411 ± 0.00119
520	Dec.br.leaf & stem	2656.0	2541.0	30,166	25,677	OxA-24304	V V	g	0.963	25,416 ± 196	0.04226 ± 0.00103	25,120 ± 120	0.04385 ± 0.00068

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
525	Dec.br.leaf	2654.6	2539.6	30,152	25,610	OxA-24409	V V	vsg	0.290	24,665 ± 711	0.04640 ± 0.00411	23,800 ± 550	0.05166 ± 0.00350
690	Dec.br.leaf	2560.9	2487.0	29,527	24,872	SUERC-27769		g	1.661	25,110 ± 147	0.04390 ± 0.00081	24,943 ± 121	0.04482 ± 0.00067
819	Dec.br.leaf	2556.4	2482.5	29,477	25,060	OxA-24314	V V	g	1.510	24,895 ± 139	0.04509 ± 0.00078	24,720 ± 110	0.04610 ± 0.00061
220	Dec.br.leaf	2546.7	2472.7	29,346	24,923	OxA-24418	V V	vsg	0.343	24,525 ± 597	0.04722 ± 0.00351	23,800 ± 450	0.05166 ± 0.00296
351	Dec.br.leaf	2541.2	2467.3	29,263	25,034	OxA-24274	V V	G	1.657	24,924 ± 136	0.04493 ± 0.00076	24,760 ± 110	0.04585 ± 0.00062
219	Dec.br.leaf	2538.2	2464.3	29,215	24,757	SUERC-16528		vsg	0.198	26,135 ± 820	0.03864 ± 0.00394	24,660 ± 101	0.04640 ± 0.00060
701	Dec.br.leaf	2537.7	2463.7	29,207	24,742	OxA-24353	V V	g	1.093	24,875 ± 230	0.04520 ± 0.00129	24,630 ± 190	0.04660 ± 0.00112
689	Dec.br.leaf	2537.7	2463.7	29,207	24,742	SUERC-28236		g	0.584	24,678 ± 258	0.04632 ± 0.00149	24,238 ± 122	0.04894 ± 0.00074
366	Dec.br.leaf	2535.7	2461.8	29,175	25,013	OxA-24281	V V	G	2.320	24,548 ± 121	0.04708 ± 0.00071	24,440 ± 110	0.04774 ± 0.00064
817	Dec.br.leaf	2533.8	2460.4	29,155	24,800	SUERC-28209		g	1.136	25,109 ± 171	0.04390 ± 0.00093	24,867 ± 118	0.04525 ± 0.00066
661	Dec.br.leaf	2532.5	2459.1	29,134	24,907	SUERC-27768		g	1.655	25,063 ± 144	0.04416 ± 0.00079	24,897 ± 117	0.04508 ± 0.00066
695	Dec.br.leaf	2531.0	2457.6	29,109	24,953	SUERC-28912		vsg	0.498	25,152 ± 306	0.04367 ± 0.00166	24,606 ± 115	0.04674 ± 0.00067
815	Dec.br.leaf	2529.9	2456.4	29,093	25,007	OxA-24339	V V	g	0.725	24,501 ± 228	0.04736 ± 0.00134	24,150 ± 140	0.04946 ± 0.00087
813	Dec.br.leaf	2528.7	2455.2	29,074	24,556	SUERC-28911		g	0.814	25,020 ± 206	0.04439 ± 0.00114	24,687 ± 115	0.04627 ± 0.00066
218	Dec.br.leaf	2526.9	2453.4	29,045	24,804	SUERC-23345		g	0.782	24,364 ± 252	0.04817 ± 0.00151	24,046 ± 192	0.05012 ± 0.00120
368	Dec.br.leaf	2526.5	2453.1	29,039	24,872	OxA-24248	V V	G	2.262	24,695 ± 126	0.04623 ± 0.00072	24,580 ± 110	0.04690 ± 0.00065
814	Dec.br.leaf	2523.9	2450.5	28,999	24,685	SUERC-29857		g	1.441	24,954 ± 150	0.04476 ± 0.00083	24,766 ± 115	0.04582 ± 0.00066
352	Dec.br.leaf	2512.2	2438.7	28,808	24,593	OxA-X-2362-11	V V	g	0.673	22,980 ± 268	0.05723 ± 0.00191	22,670 ± 220	0.05947 ± 0.00160
706	Stem	2505.9	2432.4	28,710	24,546	SUERC-28233		g	0.584	24,506 ± 290	0.04733 ± 0.00171	24,075 ± 186	0.04994 ± 0.00116
691	Dec.br.leaf	2490.9	2419.5	28,455	24,207	OxA-24333	V V	g	0.893	24,367 ± 191	0.04815 ± 0.00115	24,090 ± 130	0.04986 ± 0.00079
217	Dec.br.leaf	2488.9	2417.5	28,425	24,315	SUERC-17723		g	1.125	21,743 ± 165	0.06676 ± 0.00138	21,585 ± 145	0.06808 ± 0.00123
1000	Dec.br.leaf	2488.9	2417.5	28,425	24,315	SUERC-28910		g	0.509	23,912 ± 260	0.05096 ± 0.00165	23,455 ± 109	0.05394 ± 0.00073
350	Dec.br.leaf	2488.4	2417.0	28,417	24,213	OxA-24270	V V	G	2.610	24,432 ± 120	0.04777 ± 0.00071	24,330 ± 110	0.04835 ± 0.00066
993	Bark (& some leaf material)	2477.9	2406.4	28,248	24,158	OxA-24422	V V	G	2.944	23,938 ± 169	0.05079 ± 0.00107	23,860 ± 170	0.05131 ± 0.00105
993	Bark (& some leaf material)	2477.9	2406.4	28,248	24,158	OxA-24423	V V	G	2.764	23,923 ± 115	0.05089 ± 0.00073	23,840 ± 110	0.05144 ± 0.00068
993	Bark (& some leaf material)	2477.9	2406.4	28,248	24,158	SUERC-27516		g	11.068	23,970 ± 104	0.05059 ± 0.00066	23,949 ± 104	0.05073 ± 0.00065
694	Dec.br.leaf	2476.2	2404.8	28,221	24,020	OxA-24332	V V	g	0.812	24,389 ± 205	0.04802 ± 0.00123	24,080 ± 130	0.04990 ± 0.00082
1003	Dec.br.leaf	2466.5	2395.1	28,069	24,027	OxA-24378	V V	g	0.968	23,794 ± 232	0.05171 ± 0.00149	23,550 ± 200	0.05328 ± 0.00131
681	Dec.br.leaf	2449.5	2378.0	27,800	23,850	SUERC-27515		g	0.562	23,727 ± 232	0.05215 ± 0.00150	23,322 ± 101	0.05484 ± 0.00069
799	Dec.br.leaf	2447.8	2376.4	27,771	23,889	SUERC-28231		g	0.836	23,800 ± 175	0.05168 ± 0.00112	23,522 ± 102	0.05349 ± 0.00068
359	Dec.br.leaf	2445.4	2373.9	27,732	23,715	OxA-24263	V V	g	1.490	24,099 ± 143	0.04979 ± 0.00089	23,940 ± 120	0.05081 ± 0.00074

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
685	Dec.br.leaf	2442.6	2371.2	27,689	23,843	OxA-24344	V V	g	0.964	23,611 ± 169	0.05291 ± 0.00111	23,380 ± 120	0.05448 ± 0.00081
347	Bark	2440.5	2369.1	27,652	23,794	SUERC-28909		g	1.575	23,677 ± 124	0.05247 ± 0.00081	23,531 ± 100	0.05343 ± 0.00067
795	Dec.br.leaf	2437.7	2366.3	27,606	23,617	SUERC-27790		g	1.109	23,774 ± 159	0.05184 ± 0.00102	23,565 ± 118	0.05321 ± 0.00078
999	Dec.br.leaf	2434.0	2362.6	27,543	23,649	OxA-24348	V V	g	0.849	23,714 ± 243	0.05223 ± 0.00158	23,440 ± 200	0.05402 ± 0.00135
348	Dec.br.leaf	2428.9	2357.4	27,460	23,672	OxA-24438	V V	g	0.710	23,377 ± 266	0.05447 ± 0.00180	23,070 ± 210	0.05660 ± 0.00151
797	Dec.br.leaf	2427.0	2355.6	27,432	23,479	OxA-24375	V V	g	1.225	23,717 ± 190	0.05221 ± 0.00123	23,530 ± 160	0.05345 ± 0.00109
346	Dec.br.leaf	2421.6	2350.2	27,343	23,383	SUERC-23350		g	1.146	23,464 ± 200	0.05388 ± 0.00134	23,269 ± 174	0.05520 ± 0.00119
801	Dec.br.leaf	2418.4	2347.0	27,290	23,383	OxA-24345	V V	g	0.616	23,269 ± 302	0.05521 ± 0.00208	22,920 ± 240	0.05766 ± 0.00175
801	Dec.br.leaf	2418.4	2347.0	27,290	23,383	SUERC-27514		g	1.195	23,315 ± 134	0.05489 ± 0.00091	23,132 ± 96	0.05616 ± 0.00067
212	Dec.br.leaf	2407.3	2335.8	27,110	23,052	SUERC-20938		g	0.643	23,042 ± 233	0.05679 ± 0.00165	22,717 ± 164	0.05914 ± 0.00120
349	Conifer needle?	2402.9	2331.5	27,037	22,721	OxA-24261	V V	g	0.772	23,147 ± 188	0.05605 ± 0.00131	22,870 ± 120	0.05801 ± 0.00090
796	Dec.br.leaf	2397.4	2325.9	26,942	22,779	OxA-24352	V V	g	1.124	22,346 ± 172	0.06192 ± 0.00133	22,180 ± 150	0.06326 ± 0.00117
802	Bark	2391.6	2320.1	26,824	22,678	OxA-24370	V V	G	1.755	22,475 ± 130	0.06094 ± 0.00099	22,360 ± 120	0.06180 ± 0.00090
211	Dec.br.leaf	2384.5	2313.1	26,681	22,456	OxA-24189	V V	G	1.887	22,578 ± 103	0.06016 ± 0.00077	22,470 ± 90	0.06096 ± 0.00067
345	Dec.br.leaf	2380.5	2309.1	26,600	22,452	SUERC-23349		g	1.548	22,541 ± 170	0.06044 ± 0.00128	22,413 ± 157	0.06141 ± 0.00120
798	Bark	2370.5	2299.6	26,381	22,182	SUERC-27789		g	0.675	22,540 ± 176	0.06045 ± 0.00132	22,250 ± 94	0.06268 ± 0.00074
805	Dec.br.leaf	2368.9	2298.0	26,350	22,274	OxA-24313	V V	g	0.804	21,946 ± 151	0.06509 ± 0.00122	21,720 ± 100	0.06695 ± 0.00081
804	Twig fragment	2358.2	2287.3	26,128	21,855	SUERC-26375		g	3.257	22,017 ± 95	0.06452 ± 0.00077	21,960 ± 91	0.06498 ± 0.00074
1063	Dec.br.leaf & conifer needle	2347.9	2276.9	25,918	21,691	OxA-24478	V V	vsg	0.415	21,489 ± 346	0.06890 ± 0.00297	21,080 ± 280	0.07249 ± 0.00248
209	Young twig	2324.5	2255.7	25,505	21,129	SUERC-20937		g	4.446	21,406 ± 137	0.06961 ± 0.00118	21,368 ± 135	0.06995 ± 0.00118
1062	Stem fragments	2323.4	2254.6	25,482	21,223	OxA-24459	V V	g	1.158	20,971 ± 136	0.07349 ± 0.00125	20,830 ± 120	0.07477 ± 0.00109
598	Dec.br.leaf	2321.5	2252.6	25,446	21,020	OxA-24477	V V	vsg	0.448	21,001 ± 304	0.07322 ± 0.00277	20,650 ± 240	0.07653 ± 0.00232
618	Dec.br.leaf	2303.8	2235.5	25,118	20,514	OxA-24407	V V	vsg	0.272	20,571 ± 454	0.07724 ± 0.00436	20,030 ± 350	0.08267 ± 0.00364
599	Dec.br.leaf	2300.9	2232.6	25,064	20,633	OxA-24458	V V	vsg	0.504	20,258 ± 249	0.08031 ± 0.00248	19,970 ± 200	0.08323 ± 0.00208
601	Dec.br.leaf	2292.0	2223.7	24,878	20,550	OxA-24405	V V	vsg	0.208	20,307 ± 566	0.07982 ± 0.00562	19,600 ± 450	0.08690 ± 0.00473
203	Dec.br.leaf	2280.7	2212.8	24,649	20,489	OxA-24467	V V	vsg	0.431	20,728 ± 305	0.07575 ± 0.00288	20,370 ± 240	0.07918 ± 0.00241
202	Conifer needle	2276.1	2208.2	24,560	20,622	OxA-24215	V V	g	0.805	20,458 ± 139	0.07834 ± 0.00135	20,270 ± 100	0.08017 ± 0.00102
1055, 616, 1060 & 205	Dec. broad leaf (& stem)	2266.9	2199.1	24,390	20,420	OxA-24457	V V	g	0.892	20,367 ± 154	0.07923 ± 0.00152	20,200 ± 130	0.08088 ± 0.00130
204	Fine twig	2266.5	2198.6	24,383	20,332	SUERC-23344		g	0.804	20,636 ± 157	0.07662 ± 0.00149	20,446 ± 123	0.07845 ± 0.00121
1064	Bark	2264.5	2196.6	24,343	20,482	OxA-24456	V V	vsg	0.543	20,238 ± 230	0.08051 ± 0.00231	19,970 ± 190	0.08322 ± 0.00193
201	Dec.br.leaf	2260.6	2192.7	24,270	20,244	OxA-24476	V V	vsg	0.414	20,396 ± 305	0.07894 ± 0.00299	20,040 ± 240	0.08250 ± 0.00251
615	Dec.br.leaf	2246.4	2180.1	24,001	20,282	OxA-24417	V V	vsg	0.141	19,636 ± 751	0.08678 ± 0.00812	18,750 ± 550	0.09714 ± 0.00694

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
596	Dec.br.leaf	2222.8	2165.0	23,656	20,263	OxA-24293	V V	g	0.703	19,792 ± 129	0.08511 ± 0.00136	19,600 ± 80	0.08719 ± 0.00090
967	Dec.br.leaf	2217.2	2159.5	23,548	20,025	SUERC-27513		g	0.857	20,299 ± 112	0.07991 ± 0.00112	20,128 ± 72	0.08162 ± 0.00073
197	Dec.br.leaf	2190.6	2132.8	23,055	19,762	OxA-X-2219-17	V V	vsg	0.480	20,181 ± 189	0.08109 ± 0.00191	19,880 ± 110	0.08415 ± 0.00117
197	Dec.br.leaf	2190.6	2132.8	23,055	19,762	SUERC-13333		g	0.589	19,137 ± 123	0.09234 ± 0.00141	18,927 ± 63	0.09480 ± 0.00070
969	Dec.br.leaf	2190.6	2132.8	23,055	19,762	SUERC-27788		g	0.632	19,481 ± 130	0.08847 ± 0.00144	19,274 ± 77	0.09078 ± 0.00087
S197	Sediment (humic fraction)	2190.6	2132.8	23,054	19,762	OxA-X-2226-43	SRb	g	0.978			20,080 ± 90	0.08214 ± 0.00087
S197	Sediment (humin fraction)	2190.6	2132.8	23,054	19,762	OxA-X-2236-09	SRa	g	0.800			19,400 ± 90	0.08937 ± 0.00098
S197	Sediment (humin fraction)	2190.6	2132.8	23,054	19,762	SUERC-18911		g	n/a			20,289 ± 119	0.08000 ± 0.00119
196	Bark?	2186.7	2129.0	22,982	19,564	SUERC-20936		g	2.196	19,915 ± 117	0.08381 ± 0.00122	19,851 ± 113	0.08448 ± 0.00118
195	Fine twig	2172.0	2114.2	22,731	19,514	OxA-24226	V V	G	1.834	19,285 ± 82	0.09066 ± 0.00092	19,215 ± 75	0.09145 ± 0.00084
964	Dec.br.leaf	2152.9	2095.2	22,396	19,073	OxA-24404	V V	vsg	0.310	18,741 ± 322	0.09701 ± 0.00389	18,360 ± 260	0.10167 ± 0.00325
883	Dec.br.leaf	2142.7	2085.5	22,214	18,825	OxA-24347	V V	g	1.076	18,967 ± 122	0.09431 ± 0.00143	18,850 ± 110	0.09566 ± 0.00128
194	Dec.br.leaf	2139.8	2082.5	22,162	18,635	SUERC-18127		g	2.732	18,831 ± 102	0.09592 ± 0.00121	18,787 ± 99	0.09645 ± 0.00119
595	Twig	2137.5	2080.3	22,123	18,695	OxA-24371	UW	G	2.392	18,681 ± 89	0.09773 ± 0.00108	18,630 ± 80	0.09833 ± 0.00104
595	Twig	2137.5	2080.3	22,123	18,695	OxA-24373	V V	G	2.114	18,652 ± 91	0.09809 ± 0.00112	18,600 ± 90	0.09877 ± 0.00107
199	Dec.br.leaf	2124.0	2067.2	21,878	18,443	OxA-24398	V V	g	0.858	18,112 ± 126	0.10490 ± 0.00165	17,990 ± 110	0.10657 ± 0.00144
879	Conifer needle	2104.5	2047.8	21,535	17,991	OxA-24416	V V	vsg	0.195	17,598 ± 426	0.11184 ± 0.00593	17,090 ± 330	0.11913 ± 0.00496
193	Fine twig	2097.7	2040.9	21,409	17,811	SUERC-17126		g	0.750	17,951 ± 115	0.10703 ± 0.00154	17,809 ± 90	0.10893 ± 0.00123
885	Dec.br.leaf	2087.9	2031.1	21,232	17,962	OxA-24406	V V	vsg	0.306	17,626 ± 284	0.11144 ± 0.00394	17,300 ± 230	0.11609 ± 0.00330
576	Dec.br.leaf	2082.0	2025.3	21,117	17,947	SUERC-26003		g	2.834	17,825 ± 60	0.10872 ± 0.00082	17,788 ± 57	0.10923 ± 0.00078
991	Dec.br.leaf (incl. central vein)	2075.1	2018.4	20,978	17,807	SUERC-27512		g	0.541	17,881 ± 115	0.10796 ± 0.00155	17,687 ± 60	0.11060 ± 0.00083
343	Dec.br.leaf	2073.2	2016.4	20,939	17,824	OxA-24260	V V	g	0.792	17,954 ± 100	0.10699 ± 0.00133	17,820 ± 75	0.10879 ± 0.00099
191	Non-leaf	2066.1	2012.2	20,803	17,709	SUERC-23740		vsg	0.236	18,174 ± 304	0.10410 ± 0.00394	17,718 ± 191	0.11018 ± 0.00263
990, 1016 & 190	Dec.br.leaf	2064.9	2012.1	20,778	17,754	OxA-24393	V V	g	1.260	17,531 ± 98	0.11277 ± 0.00138	17,450 ± 90	0.11390 ± 0.00127
341	Dec.br.leaf	2059.6	2006.8	20,683	17,598	SUERC-20495		g	1.554	17,653 ± 93	0.11108 ± 0.00128	17,587 ± 87	0.11199 ± 0.00121
575	Dec.br.leaf	2058.3	2005.4	20,660	17,631	OxA-24303	V V	g	1.474	17,630 ± 80	0.11139 ± 0.00110	17,560 ± 70	0.11235 ± 0.00100
575	Dec.br.leaf	2058.3	2005.4	20,660	17,631	OxA-24368	V V	G	2.180	17,493 ± 71	0.11331 ± 0.00101	17,445 ± 70	0.11396 ± 0.00096

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
989	Dec.br.leaf	2053.4	2000.6	20,574	17,511	OxA-24380	V V	G	2.097	17,572 ± 73	0.11219 ± 0.00102	17,525 ± 70	0.11287 ± 0.00097
189	Dec.br.leaf	2053.4	2000.6	20,574	17,511	SUERC-17125		g	1.339	17,597 ± 96	0.11185 ± 0.00134	17,522 ± 88	0.11291 ± 0.00124
1078	Dec.br.leaf	2037.1	1985.2	20,275	17,269	SUERC-29833		g	2.186	17,267 ± 60	0.11654 ± 0.00087	17,223 ± 56	0.11719 ± 0.00081
340	Dec.br.leaf	2033.0	1981.2	20,207	17,244	OxA-24408	V V	vsg	0.282	16,846 ± 274	0.12281 ± 0.00419	16,530 ± 220	0.12779 ± 0.00350
823	Dec.br.leaf	2024.0	1972.1	20,049	17,022	OxA-24331	V V	g	0.969	17,247 ± 92	0.11683 ± 0.00133	17,145 ± 75	0.11829 ± 0.00113
188	Dec.br.leaf	2015.5	1963.7	19,893	16,974	SUERC-19062		vsg	0.386	14,409 ± 94	0.16634 ± 0.00195	14,245 ± 44	0.16980 ± 0.00090
824	Dec.br.leaf	2013.3	1961.4	19,852	16,961	OxA-24372	V V	G	2.063	16,830 ± 76	0.12306 ± 0.00116	16,785 ± 75	0.12374 ± 0.00112
449	Dec.br.leaf	2012.5	1960.7	19,838	16,935	SUERC-26372		g	0.712	16,905 ± 84	0.12191 ± 0.00128	16,777 ± 54	0.12388 ± 0.00083
339	Dec.br.leaf	2007.2	1955.9	19,737	16,844	OxA-24297	V V	g	0.655	16,859 ± 102	0.12261 ± 0.00155	16,720 ± 75	0.12475 ± 0.00114
451	Dec.br.leaf	2004.2	1954.4	19,677	16,699	SUERC-27511		g	0.525	16,950 ± 105	0.12123 ± 0.00158	16,775 ± 56	0.12391 ± 0.00086
822	Dec.br.leaf	1999.4	1949.6	19,582	16,722	OxA-24311	V V	g	1.256	16,685 ± 74	0.12530 ± 0.00115	16,615 ± 65	0.12641 ± 0.00102
822	Dec.br.leaf	1999.4	1949.6	19,582	16,722	OxA-24312	V V	g	1.444	16,568 ± 71	0.12713 ± 0.00112	16,505 ± 65	0.12810 ± 0.00102
187	Fine twig	1989.5	1939.7	19,398	16,603	SUERC-19063		vsg	0.321	16,009 ± 137	0.13630 ± 0.00233	15,760 ± 49	0.14060 ± 0.00090
1107	Dec.br.leaf	1979.2	1929.4	19,186	16,330	OxA-24460	V V	g	0.904	16,723 ± 104	0.12471 ± 0.00162	16,620 ± 90	0.12626 ± 0.00144
517	Bud case	1971.8	1922.4	19,042	16,319	OxA-24295	V V	g	0.984	16,391 ± 77	0.12998 ± 0.00124	16,305 ± 65	0.13139 ± 0.00103
1108	Conifer needle	1955.6	1907.0	18,733	16,146	OxA-24412	V V	vsg	0.072	16,024 ± 864	0.13604 ± 0.01463	14,950 ± 650	0.15524 ± 0.01238
1111	Leaf fragments	1937.7	1894.6	18,489	15,763	OxA-24415	V V	vsg	0.263	15,918 ± 295	0.13786 ± 0.00506	15,620 ± 250	0.14310 ± 0.00448
857	Dec.br.leaf	1932.5	1889.4	18,403	15,765	OxA-24414	V V	vsg	0.206	15,632 ± 313	0.14285 ± 0.00556	15,270 ± 250	0.14951 ± 0.00464
183	Non-leaf	1923.1	1880.5	18,243	15,703	OxA-24413	V V	vsg	0.107	15,044 ± 527	0.15371 ± 0.01007	14,400 ± 400	0.16636 ± 0.00840
851	*Juniperus* ?	1917.8	1875.2	18,153	15,477	SUERC-28208		g	2.143	15,661 ± 53	0.14233 ± 0.00094	15,625 ± 50	0.14297 ± 0.00088
858	Dec.br.leaf	1910.4	1867.8	18,013	15,446	OxA-24338	V V	g	1.441	15,398 ± 72	0.14706 ± 0.00131	15,345 ± 65	0.14801 ± 0.00123
180	Dec.br.leaf	1901.2	1858.5	17,848	15,285	SUERC-17114		g	1.125	15,086 ± 74	0.15290 ± 0.00140	15,023 ± 67	0.15410 ± 0.00128
854	Dec.br.leaf	1898.6	1856.0	17,804	15,116	SUERC-27510		g	0.664	15,279 ± 74	0.14926 ± 0.00137	15,170 ± 49	0.15131 ± 0.00092
179	Dec.br.leaf	1894.1	1851.5	17,735	15,048	OxA-24247	V V	G	1.542	15,088 ± 63	0.15286 ± 0.00120	15,040 ± 60	0.15374 ± 0.00112
178	Dec.br.leaf	1888.9	1846.3	17,654	14,985	OxA-24214	V V	g	0.940	14,911 ± 76	0.15626 ± 0.00148	14,835 ± 65	0.15770 ± 0.00131
507	Two deciduous broad leaves (& stem)	1884.4	1841.7	17,587	14,867	SUERC-26001		g	0.691	14,748 ± 67	0.15946 ± 0.00133	14,651 ± 46	0.16140 ± 0.00092
176	Conifer needle	1877.8	1835.2	17,486	14,700	OxA-24411	V V	vsg	0.175	14,632 ± 316	0.16178 ± 0.00636	14,260 ± 250	0.16944 ± 0.00529
175	Dec.br.leaf	1869.7	1827.1	17,357	14,815	OxA-24206	V V	vsg	0.185	14,407 ± 221	0.16638 ± 0.00458	14,070 ± 130	0.17359 ± 0.00290
363	Dec.br.leaf	1860.7	1818.1	17,212	14,661	SUERC-23744		g	0.525	14,792 ± 142	0.15859 ± 0.00281	14,663 ± 126	0.16115 ± 0.00253
657	Dec.br.leaf fragments & vein network	1845.8	1804.2	16,942	14,381	SUERC-27507		g	0.568	14,523 ± 74	0.16400 ± 0.00151	14,408 ± 46	0.16635 ± 0.00096

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
174	Dec.br.leaf	1843.0	1801.4	16,895	14,352	OxA-X-2245-19	V V	g	0.736	13,852 ± 78	0.17827 ± 0.00173	13,770 ± 65	0.18006 ± 0.00149
365	Dec.br.leaf	1828.7	1787.1	16,626	14,184	SUERC-23752		vsg	0.257	13,981 ± 172	0.17544 ± 0.00375	13,749 ± 125	0.18057 ± 0.00280
656	Dec.br.leaf	1817.6	1776.0	16,394	13,902	OxA-24475	V V	vsg	0.338	13,882 ± 166	0.17761 ± 0.00367	13,710 ± 140	0.18150 ± 0.00317
364	Dec.br.leaf	1814.6	1773.0	16,336	13,733	OxA-24269	V V	G	2.686	13,863 ± 54	0.17804 ± 0.00120	13,840 ± 55	0.17853 ± 0.00118
172	Dec.br.leaf	1814.6	1772.9	16,335	13,843	SUERC-17121		g	0.857	13,753 ± 69	0.18050 ± 0.00155	13,685 ± 60	0.18203 ± 0.00136
832	Dec.br.leaf	1802.2	1760.6	16,114	13,619	OxA-24410	V V	vsg	0.240	13,412 ± 204	0.18833 ± 0.00477	13,180 ± 170	0.19374 ± 0.00403
829	Dec.br.leaf	1794.1	1752.5	15,964	13,514	SUERC-26371		g	0.889	13,474 ± 53	0.18686 ± 0.00124	13,412 ± 43	0.18832 ± 0.00101
168	Dec.br.leaf	1792.0	1750.3	15,922	13,461	OxA-24188	V V	G	2.987	13,518 ± 49	0.18584 ± 0.00113	13,500 ± 50	0.18628 ± 0.00111
828	Dec.br.leaf	1786.0	1744.4	15,798	13,387	SUERC-26000		g	0.884	13,330 ± 52	0.19026 ± 0.00124	13,268 ± 42	0.19173 ± 0.00100
167	Dec.br.leaf	1779.2	1737.6	15,683	13,271	OxA-24225	V V	G	1.944	13,284 ± 53	0.19135 ± 0.00125	13,255 ± 50	0.19202 ± 0.00121
571	Dec.br.leaf	1778.3	1736.7	15,670	13,292	SUERC-28907		g	0.718	13,304 ± 58	0.19088 ± 0.00137	13,228 ± 44	0.19268 ± 0.00104
166	Dec.br.leaf	1771.0	1729.4	15,561	13,243	SUERC-21174		vsg	0.268	13,174 ± 157	0.19399 ± 0.00380	12,977 ± 123	0.19880 ± 0.00300
827	Dec.br.leaf	1760.8	1719.2	15,397	12,926	OxA-24330	V V	g	1.323	13,278 ± 70	0.19149 ± 0.00167	13,235 ± 65	0.19247 ± 0.00160
570	Dec.br.leaf	1755.7	1714.1	15,314	12,967	OxA-24474	V V	vsg	0.366	12,676 ± 137	0.20638 ± 0.00352	12,540 ± 120	0.20985 ± 0.00311
165	Dec.br.leaf	1751.5	1709.9	15,245	12,688	SUERC-16526		vsg	0.273	12,888 ± 107	0.20102 ± 0.00267	12,700 ± 49	0.20570 ± 0.00130
572	Dec.br.leaf	1748.8	1707.2	15,200	12,720	OxA-24392	V V	g	0.927	12,490 ± 69	0.21122 ± 0.00181	12,440 ± 65	0.21258 ± 0.00169
569	Dec.br.leaf	1746.1	1704.5	15,157	12,541	SUERC-27506		g	0.761	12,788 ± 54	0.20354 ± 0.00136	12,722 ± 42	0.20522 ± 0.00108
164	Dec.br.leaf	1743.2	1701.5	15,108	12,638	OxA-24213	V V	g	0.604	12,391 ± 72	0.21384 ± 0.00192	12,315 ± 60	0.21592 ± 0.00163
567	Dec.br.leaf	1740.0	1698.4	15,058	12,510	SUERC-26370		g	0.895	12,630 ± 50	0.20758 ± 0.00129	12,575 ± 42	0.20900 ± 0.00108
409	Wood	1737.0	1695.4	15,008	12,517	OxA-X-2350-18	UW	G	1.978	12,739 ± 114	0.20479 ± 0.00292	12,710 ± 110	0.20543 ± 0.00291
409	Wood	1737.0	1695.4	15,008	12,517	OxA-24439	UW	g	1.535	12,459 ± 52	0.21203 ± 0.00138	12,430 ± 50	0.21285 ± 0.00132
544	Dec.br.leaf	1735.4	1693.8	14,982	12,479	SUERC-28230		g	1.275	12,499 ± 48	0.21100 ± 0.00125	12,461 ± 44	0.21199 ± 0.00116
546	Dec.br.leaf	1733.8	1692.2	14,958	12,464	SUERC-25999		g	1.859	12,451 ± 43	0.21224 ± 0.00113	12,426 ± 41	0.21292 ± 0.00108
553	Dec.br.leaf	1732.6	1691.0	14,941	12,475	OxA-24450	V V	g	1.454	12,435 ± 55	0.21267 ± 0.00146	12,400 ± 55	0.21354 ± 0.00140
550	Dec.br.leaf	1729.8	1688.1	14,911	12,456	OxA-24302	V V	g	0.931	12,476 ± 56	0.21159 ± 0.00149	12,425 ± 50	0.21294 ± 0.00133
26	Twig	1726.3	1684.7	14,881	12,438	SUERC-18128		g	4.928	12,496 ± 50	0.21105 ± 0.00132	12,487 ± 50	0.21131 ± 0.00131
161	Dec.br.leaf	1725.1	1683.5	14,863	12,428	OxA-24202	V V	vsg	0.238	12,557 ± 134	0.20948 ± 0.00349	12,360 ± 90	0.21479 ± 0.00230
160	Dec.br.leaf	1723.1	1681.5	14,838	12,490	SUERC-17722		g	1.393	12,344 ± 55	0.21510 ± 0.00146	12,310 ± 52	0.21601 ± 0.00140
838	Dec.br.leaf	1718.3	1677.1	14,773	12,493	OxA-24473	V V	vsg	0.360	12,315 ± 133	0.21589 ± 0.00357	12,190 ± 120	0.21937 ± 0.00316
548	Dec.br.leaf	1714.0	1672.9	14,721	12,419	OxA-24294	V V	g	1.339	12,528 ± 51	0.21022 ± 0.00134	12,495 ± 50	0.21116 ± 0.00126
549	Twig	1714.0	1672.9	14,721	12,419	OxA-24323	V V	G	2.445	12,415 ± 50	0.21321 ± 0.00133	12,395 ± 50	0.21372 ± 0.00131
549	Twig	1714.0	1672.9	14,721	12,419	OxA-24324	V V	G	1.920	12,493 ± 50	0.21113 ± 0.00131	12,470 ± 50	0.21179 ± 0.00127
169	Non-leaf	1699.0	1657.8	14,527	12,407	OxA-24203	V V	vsg	0.224	12,352 ± 142	0.21487 ± 0.00380	12,150 ± 100	0.22048 ± 0.00261
157	Dec.br.leaf	1681.3	1640.6	14,303	12,321	OxA-24212	V V	g	0.940	12,323 ± 61	0.21565 ± 0.00163	12,275 ± 55	0.21699 ± 0.00150

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
155	Dec.br.leaf	1674.6	1634.0	14,226	12,277	SUERC-17116		g	0.589	12,357 ± 66	0.21475 ± 0.00177	12,278 ± 53	0.21688 ± 0.00142
545	Dec.br.leaf (incl. stem)	1661.0	1620.4	14,062	12,124	SUERC-26369		g	3.680	12,219 ± 42	0.21847 ± 0.00114	12,207 ± 42	0.21881 ± 0.00113
551	Dec.br.leaf	1656.8	1616.1	14,012	12,081	OxA-24470	V V	vsg	0.447	12,012 ± 113	0.22418 ± 0.00315	11,910 ± 100	0.22696 ± 0.00286
153	Dec.br.leaf	1652.7	1612.1	13,960	12,026	OxA-24211	V V	g	0.730	11,981 ± 64	0.22504 ± 0.00180	11,920 ± 55	0.22674 ± 0.00160
153	Dec.br.leaf	1652.7	1612.1	13,960	12,026	SUERC-18126		g	0.696	11,870 ± 60	0.22816 ± 0.00172	11,808 ± 52	0.22994 ± 0.00148
152	Dec.br.leaf	1648.8	1608.2	13,908	11,950	OxA-24224	V V	G	2.758	11,954 ± 45	0.22581 ± 0.00128	11,940 ± 45	0.22626 ± 0.00126
150	Dec.br.leaf	1632.7	1592.1	13,704	11,776	OxA-24210	V V	g	1.364	11,766 ± 55	0.23114 ± 0.00158	11,735 ± 55	0.23204 ± 0.00152
536	Dec.br.leaf	1624.0	1588.9	13,666	11,764	SUERC-25998		g	0.739	11,818 ± 49	0.22964 ± 0.00139	11,760 ± 39	0.23131 ± 0.00112
148	Dec.br.leaf	1619.1	1584.6	13,606	11,777	OxA-24201	V V	g	1.030	11,702 ± 55	0.23299 ± 0.00159	11,660 ± 50	0.23418 ± 0.00148
147	Dec.br.leaf	1613.5	1579.0	13,539	11,667	SUERC-20505		g	0.804	11,806 ± 57	0.23000 ± 0.00162	11,753 ± 50	0.23153 ± 0.00144
537	Dec.br.leaf	1612.7	1578.2	13,532	11,696	OxA-24421	V V	G	2.253	11,595 ± 46	0.23612 ± 0.00135	11,575 ± 45	0.23666 ± 0.00133
537	Dec.br.leaf	1612.7	1578.2	13,532	11,696	SUERC-27505		g	1.832	11,706 ± 41	0.23287 ± 0.00118	11,683 ± 39	0.23354 ± 0.00114
145	Dec.br.leaf	1608.9	1574.4	13,490	11,646	SUERC-20494		vsg	0.450	11,619 ± 67	0.23542 ± 0.00197	11,526 ± 48	0.23814 ± 0.00143
144	Dec.br.leaf	1603.0	1568.4	13,421	11,558	SUERC-20503		g	1.179	11,476 ± 50	0.23964 ± 0.00150	11,442 ± 47	0.24067 ± 0.00142
132	Dec.br.leaf	1597.3	1562.8	13,356	11,467	SUERC-23751		vsg	0.236	11,553 ± 123	0.23736 ± 0.00365	11,380 ± 86	0.24254 ± 0.00261
131	Dec.br.leaf	1596.5	1562.0	13,346	11,493	OxA-24209	V V	g	1.082	11,438 ± 59	0.24078 ± 0.00176	11,400 ± 55	0.24190 ± 0.00168
140	Dec.br.leaf	1596.4	1561.8	13,344	11,476	OxA-X-2297-42	V V	g	0.901	11,916 ± 53	0.22686 ± 0.00150	11,870 ± 45	0.22823 ± 0.00134
539	Dec.br.leaf	1595.1	1560.6	13,329	11,350	SUERC-29863		g	0.846	11,551 ± 48	0.23743 ± 0.00141	11,502 ± 41	0.23887 ± 0.00121
126	*Sphagnum* ? *Juniperus* ?	1592.5	1558.0	13,301	11,389	SUERC-20493		g	0.536	11,235 ± 60	0.24694 ± 0.00184	11,162 ± 47	0.24918 ± 0.00147
130	Dec.br.leaf	1591.4	1556.9	13,288	11,365	SUERC-17720		g	1.446	11,016 ± 49	0.25375 ± 0.00156	10,990 ± 47	0.25458 ± 0.00150
540	Dec.br.leaf	1583.3	1549.2	13,201	11,206	OxA-24301	V V	g	0.951	11,204 ± 53	0.24788 ± 0.00162	11,165 ± 50	0.24915 ± 0.00150
125	Dec.br.leaf	1581.0	1546.9	13,175	11,145	SUERC-17119		g	0.964	11,132 ± 51	0.25012 ± 0.00159	11,092 ± 47	0.25136 ± 0.00147
543	Dec.br.leaf	1574.3	1540.2	13,103	11,062	OxA-24337	V V	g	1.071	11,090 ± 53	0.25145 ± 0.00166	11,055 ± 50	0.25257 ± 0.00157
408	Wood; bark?	1570.7	1536.6	13,063	11,033	SUERC-26368		g	8.823	10,981 ± 39	0.25489 ± 0.00124	10,976 ± 39	0.25502 ± 0.00124
124	Dec.br.leaf	1565.1	1531.0	13,002	10,962	OxA-X-2219-16	V V	vsg	0.414	11,339 ± 80	0.24378 ± 0.00242	11,245 ± 65	0.24670 ± 0.00195
123	Dec.br.leaf	1555.9	1521.8	12,900	10,842	SUERC-20492		g	1.179	10,924 ± 49	0.25668 ± 0.00157	10,893 ± 47	0.25769 ± 0.00149
122	Dec.br.leaf	1549.1	1515.0	12,819	10,835	OxA-24222	V V	G	2.710	10,687 ± 42	0.26438 ± 0.00138	10,675 ± 40	0.26481 ± 0.00137
118	Dec.br.leaf	1536.0	1501.9	12,661	10,603	SUERC-16525		vsg	0.236	10,809 ± 87	0.26038 ± 0.00283	10,655 ± 39	0.26540 ± 0.00130
139	Dec.br.leaf	1523.7	1489.6	12,517	10,546	OxA-24197	V V	g	0.955	10,484 ± 50	0.27115 ± 0.00169	10,450 ± 45	0.27237 ± 0.00158
128	Dec.br.leaf	1515.2	1481.1	12,427	10,499	OxA-24208	V V	g	1.094	10,407 ± 55	0.27375 ± 0.00189	10,375 ± 55	0.27481 ± 0.00182
136	Dec.br.leaf	1508.4	1474.3	12,355	10,420	OxA-24223	V V	G	2.337	10,494 ± 44	0.27080 ± 0.00147	10,480 ± 45	0.27130 ± 0.00145
136	Dec.br.leaf	1508.4	1474.3	12,355	10,420	SUERC-20502		g	1.393	10,446 ± 46	0.27244 ± 0.00156	10,421 ± 44	0.27328 ± 0.00151

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
115	Dec.br.leaf	1507.8	1473.8	12,348	10,521	SUERC-23359		g	1.205	10,394 ± 46	0.27419 ± 0.00156	10,366 ± 44	0.27515 ± 0.00149
135	Dec.br.leaf	1495.2	1461.1	12,213	10,391	SUERC-17726		g	1.179	10,141 ± 46	0.28296 ± 0.00162	10,114 ± 44	0.28394 ± 0.00155
133	Dec.br.leaf	1479.1	1445.6	12,045	10,229	OxA-24273	V V	G	2.798	10,329 ± 42	0.27643 ± 0.00143	10,315 ± 40	0.27684 ± 0.00142
112	Dec.br.leaf	1475.2	1441.7	12,006	10,276	OxA-24193	V V	G	2.239	10,285 ± 42	0.27793 ± 0.00147	10,270 ± 40	0.27845 ± 0.00145
1152	Dec.br.leaf	1467.6	1434.1	11,927	10,266	OxA-24433	V V	G	1.760	10,249 ± 42	0.27917 ± 0.00146	10,230 ± 40	0.27983 ± 0.00143
109	Dec.br.leaf	1460.3	1426.9	11,852	10,220	OxA-24250	V V	g	0.955	10,202 ± 45	0.28082 ± 0.00158	10,170 ± 40	0.28202 ± 0.00147
1150	Dec.br.leaf	1459.2	1425.7	11,840	10,179	SUERC-29862		g	2.046	10,324 ± 40	0.27661 ± 0.00136	10,307 ± 39	0.27718 ± 0.00134
108	Dec.br.leaf	1457.1	1423.7	11,820	10,214	SUERC-23750		vsg	0.493	10,110 ± 77	0.28407 ± 0.00271	10,044 ± 69	0.28639 ± 0.00247
107	Dec.br.leaf	1455.6	1422.2	11,802	10,128	SUERC-18130		g	2.036	10,178 ± 45	0.28166 ± 0.00159	10,162 ± 45	0.28222 ± 0.00157
1149	Dec.br.leaf	1451.6	1418.2	11,762	10,123	OxA-24448	V V	g	0.885	10,034 ± 50	0.28675 ± 0.00177	10,000 ± 45	0.28804 ± 0.00166
1149	Dec.br.leaf	1451.6	1418.2	11,762	10,123	OxA-24449	V V	g	0.947	10,056 ± 49	0.28597 ± 0.00176	10,020 ± 45	0.28718 ± 0.00166
1151	Dec.br.leaf	1448.0	1414.6	11,725	10,090	SUERC-29832		g	2.261	10,065 ± 38	0.28566 ± 0.00136	10,051 ± 38	0.28616 ± 0.00134
105	Dec.br.leaf	1444.2	1410.8	11,689	10,055	OxA-24292	V V	g	0.834	9,992 ± 64	0.28825 ± 0.00230	9,955 ± 60	0.28962 ± 0.00221
1155	Dec.br.leaf	1444.2	1410.8	11,689	10,055	SUERC-29831		g	1.329	10,112 ± 40	0.28399 ± 0.00140	10,088 ± 38	0.28485 ± 0.00134
1147	Dec.br.leaf	1443.2	1409.7	11,677	10,068	SUERC-29830		g	5.068	10,120 ± 39	0.28372 ± 0.00137	10,113 ± 39	0.28395 ± 0.00137
103	Dec.br.leaf	1440.6	1407.1	11,653	10,106	SUERC-20491		g	2.089	10,014 ± 45	0.28748 ± 0.00161	9,999 ± 44	0.28803 ± 0.00159
102	Dec.br.leaf	1433.7	1400.2	11,590	9,996	OxA-24196	V V	g	0.881	10,124 ± 50	0.28358 ± 0.00177	10,085 ± 45	0.28488 ± 0.00165
101	Dec.br.leaf	1433.5	1400.0	11,589	10,051	SUERC-23746		g	0.562	10,054 ± 75	0.28606 ± 0.00265	9,997 ± 69	0.28809 ± 0.00247
660	Dec.br.leaf	1429.0	1397.9	11,569	10,048	OxA-24468	V V	vsg	0.476	9,962 ± 93	0.28934 ± 0.00336	9,900 ± 90	0.29173 ± 0.00316
1159	Non-leaf	1424.9	1393.8	11,530	10,104	OxA-24455	V V	g	0.659	9,941 ± 56	0.29012 ± 0.00201	9,895 ± 50	0.29184 ± 0.00183
99	Dec.br.leaf	1420.7	1389.5	11,490	10,036	OxA-24200	V V	g	0.612	10,080 ± 55	0.28511 ± 0.00197	10,030 ± 50	0.28698 ± 0.00174
1158	Dec.br.leaf	1420.7	1389.5	11,490	10,036	SUERC-29521		g	1.414	10,094 ± 41	0.28464 ± 0.00147	10,071 ± 40	0.28545 ± 0.00141
97	Dec.br.leaf	1408.7	1377.5	11,368	9,927	SUERC-19061		vsg	0.107	6,968 ± 94	0.42004 ± 0.00494	6,805 ± 43	0.42870 ± 0.00230
1146	Dec.br.leaf	1400.9	1369.7	11,279	9,847	OxA-24446	V V	g	0.972	9,884 ± 50	0.29215 ± 0.00181	9,850 ± 45	0.29332 ± 0.00172
1146	Dec.br.leaf	1400.9	1369.7	11,279	9,847	OxA-24447	V V	g	1.040	9,872 ± 49	0.29260 ± 0.00180	9,840 ± 45	0.29369 ± 0.00172
94	Dec.br.leaf	1394.9	1363.7	11,213	9,794	SUERC-17115		g	0.643	9,817 ± 50	0.29463 ± 0.00183	9,769 ± 44	0.29639 ± 0.00162
93	Dec.br.leaf	1394.3	1363.1	11,207	9,780	SUERC-17717		g	4.500	9,755 ± 44	0.29691 ± 0.00162	9,748 ± 44	0.29716 ± 0.00161
1121	Twig	1383.1	1352.0	11,091	9,650	OxA-24431	V V	G	1.867	9,672 ± 40	0.30000 ± 0.00149	9,656 ± 39	0.30060 ± 0.00146
1121	Twig	1383.1	1352.0	11,091	9,650	OxA-24432	UW	G	1.673	9,678 ± 39	0.29976 ± 0.00145	9,660 ± 38	0.30043 ± 0.00141
92	Twig	1383.1	1352.0	11,091	9,650	SUERC-20490		g	3.696	9,642 ± 42	0.30111 ± 0.00156	9,634 ± 41	0.30141 ± 0.00155
1120	Dec.br.leaf	1378.4	1347.2	11,042	9,662	OxA-24445	V V	g	1.282	9,554 ± 46	0.30443 ± 0.00173	9,530 ± 45	0.30530 ± 0.00168
1125	Branched twig fragment	1372.2	1341.0	10,980	9,635	SUERC-29520		g	3.487	9,600 ± 38	0.30270 ± 0.00144	9,591 ± 38	0.30302 ± 0.00143
1119	Dec.br.leaf	1365.1	1333.9	10,911	9,560	SUERC-29519		g	3.868	9,699 ± 38	0.29896 ± 0.00142	9,692 ± 38	0.29925 ± 0.00141

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
659	Dec.br.leaf	1361.4	1330.3	10,876	9,617	OxA-24310	V V	g	1.297	9,598 ± 43	0.30277 ± 0.00163	9,575 ± 40	0.30363 ± 0.00158
88	Dec.br.leaf	1354.5	1323.8	10,815	9,580	SUERC-17721		g	0.857	9,550 ± 50	0.30457 ± 0.00191	9,516 ± 47	0.30586 ± 0.00180
86	Dec.br.leaf	1351.6	1320.9	10,785	9,575	SUERC-20489		g	2.250	9,549 ± 43	0.30461 ± 0.00164	9,536 ± 43	0.30510 ± 0.00162
658	Dec.br.leaf	1345.1	1314.4	10,719	9,525	OxA-24367	V V	G	2.164	9,547 ± 39	0.30468 ± 0.00148	9,534 ± 38	0.30519 ± 0.00146
1118	Dec.br.leaf	1335.6	1304.9	10,627	9,450	SUERC-29518		g	2.780	9,460 ± 37	0.30799 ± 0.00142	9,450 ± 37	0.30838 ± 0.00140
83	Dec.br.leaf	1329.1	1298.4	10,567	9,400	SUERC-17120		g	1.768	9,442 ± 45	0.30868 ± 0.00174	9,426 ± 45	0.30930 ± 0.00172
81	Dec.br.leaf	1317.4	1286.7	10,456	9,349	OxA-24207	V V	g	1.353	9,235 ± 52	0.31677 ± 0.00206	9,215 ± 50	0.31758 ± 0.00202
1123	Dec.br.leaf	1314.0	1283.4	10,424	9,303	SUERC-29517		g	1.339	9,334 ± 42	0.31287 ± 0.00162	9,313 ± 40	0.31369 ± 0.00157
1128	Dec.br.leaf	1306.2	1275.5	10,347	9,220	SUERC-29516		g	1.961	9,286 ± 37	0.31475 ± 0.00145	9,272 ± 36	0.31530 ± 0.00143
79	Ev.br.leaf	1299.2	1268.6	10,275	9,169	OxA-24239	V V	G	1.935	9,137 ± 40	0.32066 ± 0.00161	9,123 ± 40	0.32122 ± 0.00159
78	Dec.br.leaf	1298.9	1268.2	10,272	9,115	OxA-24187	V V	G	2.859	9,161 ± 38	0.31970 ± 0.00153	9,151 ± 38	0.32008 ± 0.00152
843	Dec.br.leaf	1288.8	1263.6	10,226	9,091	SUERC-26732		g	2.079	9,024 ± 39	0.32519 ± 0.00157	9,011 ± 38	0.32571 ± 0.00155
842	Dec.br.leaf	1274.3	1251.0	10,101	9,002	OxA-24391	V V	g	1.301	8,874 ± 46	0.33131 ± 0.00189	8,855 ± 45	0.33213 ± 0.00185
438	Dec.br.leaf	1260.8	1238.0	9,968	8,854	OxA-24291	V V	g	0.786	8,946 ± 43	0.32836 ± 0.00174	8,913 ± 39	0.32973 ± 0.00161
848	Dec.br.leaf	1260.1	1237.3	9,961	8,886	SUERC-29513		g	2.437	8,951 ± 38	0.32814 ± 0.00157	8,940 ± 38	0.32858 ± 0.00155
847	Dec.br.leaf	1259.6	1236.8	9,956	8,947	OxA-24440	V V	g	0.780	8,870 ± 47	0.33147 ± 0.00195	8,835 ± 45	0.33284 ± 0.00183
847	Dec.br.leaf	1259.6	1236.8	9,956	8,947	SUERC-28906		g	0.520	8,730 ± 45	0.33732 ± 0.00191	8,681 ± 38	0.33936 ± 0.00162
76	Dec.br.leaf	1257.7	1234.9	9,937	8,931	SUERC-16524		vsg	0.204	8,512 ± 71	0.34656 ± 0.00308	8,395 ± 39	0.35170 ± 0.00170
75	Non-leaf	1234.1	1211.9	9,786	8,800	SUERC-17118		g	1.714	8,751 ± 43	0.33643 ± 0.00180	8,736 ± 42	0.33705 ± 0.00178
441	Dec.br.leaf	1233.6	1211.3	9,781	8,800	OxA-24309	V V	g	1.152	8,845 ± 41	0.33251 ± 0.00171	8,823 ± 40	0.33344 ± 0.00165
439	Dec.br.leaf	1229.3	1207.1	9,743	8,784	SUERC-25995		g	2.454	8,825 ± 38	0.33335 ± 0.00158	8,814 ± 38	0.33378 ± 0.00156
878	Dec.br.leaf	1225.2	1203.0	9,706	8,738	OxA-24329	V V	g	1.147	8,774 ± 46	0.33547 ± 0.00194	8,750 ± 45	0.33640 ± 0.00189
442	Dec.br.leaf	1207.9	1185.6	9,543	8,561	OxA-24425	V V	G	1.738	8,563 ± 40	0.34438 ± 0.00172	8,549 ± 40	0.34498 ± 0.00170
877	Dec.br.leaf	1198.0	1175.7	9,462	8,519	OxA-24420	V V	G	1.951	8,439 ± 38	0.34973 ± 0.00165	8,427 ± 37	0.35026 ± 0.00163
444	Dec.br.leaf vein network	1198.0	1175.7	9,462	8,519	SUERC-26366		g	1.087	8,422 ± 40	0.35047 ± 0.00173	8,400 ± 38	0.35143 ± 0.00166
70	Dec.br.leaf	1180.8	1158.5	9,314	8,350	OxA-24192	V V	G	1.922	8,362 ± 37	0.35310 ± 0.00161	8,350 ± 36	0.35364 ± 0.00159
874	Dec.br.leaf fragment & stem	1176.2	1153.9	9,272	8,329	SUERC-27503		vsg	0.493	8,406 ± 47	0.35119 ± 0.00206	8,358 ± 40	0.35329 ± 0.00177
69	Dec.br.leaf	1164.6	1142.3	9,169	8,251	OxA-24280	V V	G	2.430	8,306 ± 42	0.35558 ± 0.00188	8,295 ± 40	0.35600 ± 0.00187
68	Dec.br.leaf	1156.9	1134.6	9,104	8,244	SUERC-20486		g	5.357	8,158 ± 38	0.36218 ± 0.00172	8,154 ± 38	0.36237 ± 0.00172
67	Dec.br.leaf	1143.6	1121.3	8,992	8,167	OxA-24249	V V	g	1.224	8,096 ± 39	0.36500 ± 0.00178	8,078 ± 38	0.36583 ± 0.00173
65	Ev.br.leaf	1130.3	1108.0	8,867	8,048	OxA-24288	V V	g	1.530	8,081 ± 35	0.36568 ± 0.00157	8,067 ± 34	0.36634 ± 0.00154
63	Dec.br.leaf	1121.9	1099.6	8,782	7,973	OxA-24259	V V	g	1.073	8,107 ± 39	0.36450 ± 0.00179	8,086 ± 38	0.36545 ± 0.00173

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
24	Ev.br.leaf	1103.6	1081.3	8,591	7,841	SUERC-18129		g	6.375	7,766 ± 41	0.38029 ± 0.00192	7,763 ± 41	0.38045 ± 0.00192
629	Ev.br.leaf	1097.9	1075.6	8,541	7,756	OxA-24424	V V	G	2.409	7,739 ± 41	0.38159 ± 0.00193	7,730 ± 40	0.38200 ± 0.00192
629	Ev.br.leaf	1097.9	1075.6	8,541	7,756	SUERC-28229		g	2.662	7,781 ± 38	0.37962 ± 0.00180	7,773 ± 38	0.37999 ± 0.00179
630	Ev.br.leaf	1095.8	1073.5	8,520	7,671	OxA-24366	V V	G	1.974	7,775 ± 35	0.37987 ± 0.00167	7,765 ± 35	0.38037 ± 0.00165
382	Dec.br.leaf	1077.5	1055.3	8,338	7,527	OxA-X-2297-53	V V	g	1.000	7,878 ± 41	0.37506 ± 0.00193	7,856 ± 40	0.37606 ± 0.00187
61	Dec.br.leaf	1076.6	1054.4	8,329	7,520	SUERC-20485		g	1.714	7,407 ± 38	0.39771 ± 0.00190	7,395 ± 38	0.39827 ± 0.00188
60	Ev.br.leaf	1074.6	1052.4	8,311	7,517	OxA-24246	V V	G	2.565	7,375 ± 36	0.39928 ± 0.00178	7,367 ± 35	0.39965 ± 0.00177
59	Dec.br.leaf	1064.6	1042.4	8,225	7,389	SUERC-20484		g	1.125	7,503 ± 41	0.39297 ± 0.00199	7,485 ± 40	0.39384 ± 0.00195
383	Dec.br.leaf	1063.4	1041.1	8,213	7,406	OxA-24287	V V	g	1.220	7,500 ± 35	0.39309 ± 0.00169	7,484 ± 34	0.39389 ± 0.00165
58	Dec.br.leaf	1056.8	1035.6	8,162	7,419	OxA-24322	V V	G	2.193	7,334 ± 37	0.40132 ± 0.00187	7,325 ± 37	0.40176 ± 0.00186
57	Dec.br.leaf	1049.7	1030.4	8,111	7,333	SUERC-20482		g	1.179	7,345 ± 41	0.40079 ± 0.00203	7,328 ± 40	0.40160 ± 0.00199
381	Dec.br.leaf	1043.6	1024.3	8,051	7,266	OxA-24267	V V	G	2.634	7,284 ± 37	0.40381 ± 0.00188	7,277 ± 37	0.40417 ± 0.00187
381	Dec.br.leaf	1043.6	1024.3	8,051	7,266	OxA-24268	V V	G	3.133	7,269 ± 38	0.40457 ± 0.00192	7,263 ± 38	0.40487 ± 0.00192
55	Dec.br.leaf	1032.1	1012.8	7,938	7,159	SUERC-23358		g	0.825	7,120 ± 48	0.41217 ± 0.00245	7,098 ± 46	0.41331 ± 0.00239
384	Dec.br.leaf	1029.2	1010.0	7,908	7,090	OxA-24286	V V	g	1.690	7,171 ± 34	0.40957 ± 0.00172	7,160 ± 33	0.41013 ± 0.00170
54	Ev.br.leaf	1019.9	1002.1	7,827	7,090	SUERC-17725		g	2.250	6,951 ± 39	0.42092 ± 0.00205	6,943 ± 39	0.42133 ± 0.00204
387	Dec.br.leaf	1016.2	998.5	7,792	6,979	OxA-24272	V V	G	2.173	7,091 ± 35	0.41367 ± 0.00179	7,082 ± 35	0.41410 ± 0.00178
638	Ev.br.leaf	1007.3	989.6	7,695	6,875	SUERC-25994		g	0.536	6,956 ± 40	0.42068 ± 0.00212	6,923 ± 37	0.42241 ± 0.00194
52	Ev.br.leaf	998.0	980.2	7,583	6,759	SUERC-20481		g	7.018	6,650 ± 39	0.43701 ± 0.00213	6,647 ± 39	0.43714 ± 0.00213
433	Dec.br.leaf	990.3	972.5	7,506	6,590	OxA-24419	V V	G	1.713	6,630 ± 34	0.43810 ± 0.00184	6,620 ± 33	0.43862 ± 0.00182
433	Dec.br.leaf	990.3	972.5	7,506	6,590	SUERC-28207		g	1.045	6,715 ± 47	0.43349 ± 0.00252	6,699 ± 46	0.43435 ± 0.00248
51	Dec.br.leaf	987.3	969.5	7,472	6,584	OxA-24245	V V	G	2.396	6,477 ± 34	0.44651 ± 0.00191	6,470 ± 34	0.44688 ± 0.00190
435	Ev.br.leaf	983.8	966.0	7,436	6,495	SUERC-26365		g	0.916	6,558 ± 37	0.44202 ± 0.00203	6,540 ± 36	0.44300 ± 0.00198
50	Ev.br.leaf	969.8	952.0	7,282	6,370	SUERC-17117		g	10.446	6,129 ± 38	0.46626 ± 0.00218	6,128 ± 38	0.46634 ± 0.00218
429	Ev.br.leaf	960.5	945.5	7,209	6,311	OxA-X-2339-40	V V	G	2.402	6,042 ± 34	0.47133 ± 0.00201	6,036 ± 34	0.47168 ± 0.00200
428	Dec.br.leaf	957.1	942.1	7,171	6,280	SUERC-25993		g	2.604	6,216 ± 35	0.46126 ± 0.00202	6,210 ± 35	0.46159 ± 0.00201
47	Stem	939.0	924.0	6,980	6,100	OxA-24279	V V	G	3.250	6,096 ± 35	0.46818 ± 0.00205	6,092 ± 35	0.46844 ± 0.00205
46	Ev.br.leaf	925.7	910.7	6,840	5,965	SUERC-20480		g	0.589	6,035 ± 40	0.47176 ± 0.00237	6,011 ± 38	0.47319 ± 0.00226
43	Dec.br.leaf	906.6	891.6	6,635	5,795	SUERC-26731		g	1.034	5,783 ± 38	0.48677 ± 0.00232	5,770 ± 38	0.48756 ± 0.00229
41	Dec.br.leaf	898.1	883.1	6,548	5,686	OxA-24255	V V	g	1.075	5,717 ± 31	0.49081 ± 0.00191	5,705 ± 31	0.49157 ± 0.00187

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
39	Ev.br.leaf	876.9	862.9	6,348	5,510	OxA-24181	V V	G	3.161	5,500 ± 34	0.50427 ± 0.00211	5,496 ± 34	0.50452 ± 0.00211
39	Ev.br.leaf	876.9	862.9	6,348	5,510	OxA-24182	NRC	G	3.067	5,458 ± 35	0.50688 ± 0.00218	5,454 ± 35	0.50714 ± 0.00218
39	Ev.br.leaf	876.9	862.9	6,348	5,510	SUERC-13332		g	6.268	5,465 ± 35	0.50647 ± 0.00220	5,463 ± 35	0.50660 ± 0.00220
S39	Sediment (humic fraction)	876.9	862.9	6,348	5,510	OxA-X-2225-53	SRb	G	1.574			5,879 ± 34	0.48104 ± 0.00205
S39	Sediment (humin fraction)	876.9	862.9	6,348	5,510	OxA-X-2236-08	SRa	g	0.812			5,782 ± 38	0.48688 ± 0.00228
S39	Sediment (humin fraction)	876.9	862.9	6,348	5,510	SUERC-18047		g	n/a			5,797 ± 35	0.48597 ± 0.00212
38	Dec.br.leaf	861.0	847.0	6,191	5,356	SUERC-23355		g	2.812	5,320 ± 38	0.51567 ± 0.00244	5,316 ± 38	0.51594 ± 0.00244
37	Ev.br.leaf	854.9	840.9	6,135	5,305	OxA-24262	V V	g	1.083	5,332 ± 33	0.51488 ± 0.00210	5,321 ± 32	0.51560 ± 0.00207
480	Ev.br.leaf	839.9	826.0	5,997	5,193	SUERC-26362		g	0.905	5,230 ± 38	0.52150 ± 0.00246	5,217 ± 37	0.52234 ± 0.00243
777	Ev.br.leaf	820.6	806.7	5,829	5,062	SUERC-28228		g	1.296	5,048 ± 38	0.53342 ± 0.00252	5,040 ± 38	0.53399 ± 0.00251
36	Dec.br.leaf	812.0	798.0	5,750	5,012	SUERC-20479		g	2.464	4,962 ± 35	0.53917 ± 0.00235	4,958 ± 35	0.53947 ± 0.00235
479	Ev.br.leaf	800.8	786.8	5,665	4,927	SUERC-25992		g	1.950	4,974 ± 35	0.53838 ± 0.00235	4,968 ± 35	0.53876 ± 0.00235
23	Wood fragment	792.7	778.7	5,600	4,933	OxA-24220	V V	G	3.052	4,862 ± 30	0.54591 ± 0.00206	4,859 ± 30	0.54615 ± 0.00206
782	Ev.br.leaf	780.0	766.1	5,498	4,821	SUERC-28206		g	3.118	4,883 ± 38	0.54454 ± 0.00255	4,879 ± 38	0.54478 ± 0.00255
780	Ev.br.leaf	773.0	759.0	5,441	4,787	OxA-24351	V V	g	1.045	4,848 ± 35	0.54687 ± 0.00240	4,838 ± 35	0.54756 ± 0.00238
780	Ev.br.leaf	773.0	759.0	5,441	4,787	SUERC-28203		g	2.030	4,625 ± 35	0.56227 ± 0.00248	4,620 ± 35	0.56261 ± 0.00248
779	Dec.br.leaf	768.1	754.1	5,405	4,801	SUERC-28202		vsg	0.498	4,729 ± 39	0.55506 ± 0.00272	4,708 ± 38	0.55649 ± 0.00263
488	Ev.br.leaf	761.8	747.8	5,358	4,724	SUERC-25990		g	4.586	4,773 ± 37	0.55203 ± 0.00255	4,771 ± 37	0.55219 ± 0.00255
16	Ev.br.leaf	754.1	740.1	5,301	4,723	OxA-24238	V V	G	2.738	4,655 ± 34	0.56021 ± 0.00238	4,651 ± 34	0.56047 ± 0.00238
16	Ev.br.leaf	754.1	740.1	5,301	4,723	OxA-X-2316-09	V V	vsg	0.152	4,934 ± 140	0.54105 ± 0.00943	4,860 ± 140	0.54589 ± 0.00919
786	Dec.br.leaf	748.3	734.8	5,254	4,680	OxA-X-2360-44	V V	G	1.993	4,427 ± 32	0.57631 ± 0.00229	4,422 ± 32	0.57665 ± 0.00229
15	Bark	738.0	724.5	5,164	4,599	SUERC-23354		g	9.214	4,595 ± 38	0.56442 ± 0.00264	4,593 ± 38	0.56450 ± 0.00264
508	Bark	713.5	701.0	4,981	4,400	SUERC-25989		g	3.482	4,486 ± 35	0.57209 ± 0.00249	4,483 ± 35	0.57229 ± 0.00249
14	Twig	705.8	693.3	4,915	4,324	OxA-24285	V V	g	1.300	4,388 ± 29	0.57915 ± 0.00208	4,380 ± 29	0.57967 ± 0.00207
13	Dec.br.leaf	693.7	681.2	4,812	4,263	OxA-24195	V V	g	0.765	4,136 ± 34	0.59754 ± 0.00251	4,125 ± 33	0.59838 ± 0.00248
12	Dec.br.leaf	691.9	679.4	4,797	4,236	SUERC-20476		g	3.804	4,166 ± 37	0.59533 ± 0.00277	4,164 ± 37	0.59550 ± 0.00277
8	Ev.br.leaf	685.4	672.9	4,745	4,208	OxA-24284	V V	g	1.030	4,211 ± 28	0.59203 ± 0.00209	4,202 ± 28	0.59266 ± 0.00207
7	Ev.br.leaf	678.2	665.7	4,689	4,187	SUERC-26730		g	1.286	4,241 ± 37	0.58980 ± 0.00274	4,234 ± 37	0.59031 ± 0.00273
511	Ev.br.leaf	667.9	655.9	4,610	4,117	SUERC-26361		g	4.227	4,235 ± 37	0.59025 ± 0.00274	4,233 ± 37	0.59041 ± 0.00274
6	Ev.br.leaf	657.6	645.6	4,522	4,098	OxA-24271	V V	G	2.576	4,009 ± 28	0.60710 ± 0.00215	4,006 ± 28	0.60734 ± 0.00215
513	Ev.br.leaf	653.4	641.4	4,490	4,046	SUERC-25988		g	4.136	4,041 ± 37	0.60472 ± 0.00278	4,039 ± 37	0.60487 ± 0.00278

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
4	Ev.br.leaf	635.2	623.7	4,357	3,930	OxA-24277	V V	G	2.811	3,895 ± 29	0.61575 ± 0.00225	3,892 ± 29	0.61597 ± 0.00225
4	Ev.br.leaf	635.2	623.7	4,357	3,930	OxA-24278	V V	G	2.900	3,923 ± 30	0.61364 ± 0.00227	3,920 ± 30	0.61385 ± 0.00227
2	Ev.br.leaf	631.6	620.1	4,327	3,893	OxA-24237	V V	G	2.103	3,906 ± 31	0.61497 ± 0.00238	3,902 ± 31	0.61526 ± 0.00238
3	Ev.br.leaf	631.6	620.1	4,327	3,893	SUERC-23353		g	3.262	3,982 ± 36	0.60915 ± 0.00270	3,979 ± 36	0.60934 ± 0.00270
5	Ev.br.leaf	616.0	604.5	4,211	3,827	SUERC-20475		g	2.518	3,806 ± 37	0.62263 ± 0.00289	3,803 ± 37	0.62287 ± 0.00289
608	Dec.br.leaf	602.1	590.6	4,103	3,786	SUERC-26360		g	5.539	3,700 ± 37	0.63091 ± 0.00293	3,699 ± 37	0.63102 ± 0.00293
326	Dec.br.leaf	596.0	584.5	4,057	3,727	OxA-24194	V V	G	2.257	3,815 ± 28	0.62192 ± 0.00216	3,812 ± 28	0.62219 ± 0.00216
325	Ev.br.leaf	579.4	567.9	3,931	3,658	SUERC-20474		g	0.911	3,650 ± 35	0.63484 ± 0.00278	3,642 ± 35	0.63548 ± 0.00277
606	Ev.br.leaf	571.8	560.3	3,871	3,609	OxA-24321	V V	G	2.146	3,620 ± 30	0.63724 ± 0.00239	3,616 ± 30	0.63751 ± 0.00239
503	Ev.br.leaf	561.3	549.8	3,786	3,531	SUERC-25985		g	3.954	3,527 ± 37	0.64463 ± 0.00297	3,525 ± 37	0.64478 ± 0.00297
504	Ev.br.leaf	548.9	537.4	3,687	3,445	OxA-24300	V V	g	0.741	3,436 ± 30	0.65197 ± 0.00244	3,427 ± 30	0.65272 ± 0.00241
323	Ev.br.leaf	535.0	524.5	3,581	3,353	SUERC-20473		g	2.357	3,340 ± 37	0.65985 ± 0.00305	3,337 ± 37	0.66008 ± 0.00305
604	Ev.br.leaf	527.5	517.0	3,520	3,314	SUERC-28201		g	3.755	3,331 ± 37	0.66057 ± 0.00308	3,329 ± 37	0.66071 ± 0.00308
603	Ev.br.leaf	508.4	497.9	3,366	3,211	OxA-24320	V V	G	2.633	3,152 ± 28	0.67543 ± 0.00233	3,150 ± 28	0.67563 ± 0.00233
322	Ev.br.leaf	500.4	489.9	3,298	3,090	SUERC-26729		g	1.666	3,251 ± 36	0.66715 ± 0.00302	3,247 ± 36	0.66747 ± 0.00301
321	Ev.br.leaf	484.7	475.2	3,174	3,065	OxA-24232	V V	G	3.336	2,943 ± 27	0.69322 ± 0.00234	2,942 ± 27	0.69337 ± 0.00234
492	Dec.br.leaf	477.5	468.5	3,117	3,001	SUERC-28200		g	1.093	2,952 ± 38	0.69249 ± 0.00323	2,947 ± 37	0.69294 ± 0.00323
320	Ev.br.leaf	461.6	452.6	2,982	2,817	OxA-24308	V V	g	0.954	2,964 ± 30	0.69141 ± 0.00258	2,958 ± 30	0.69193 ± 0.00257
493	Ev.br.leaf & stem	449.4	440.4	2,876	2,773	SUERC-26359		g	2.861	2,760 ± 37	0.70926 ± 0.00328	2,758 ± 37	0.70942 ± 0.00328
319	Ev.br.leaf	439.9	430.9	2,794	2,697	OxA-X-2297-56	V V	G	2.120	2,493 ± 25	0.73321 ± 0.00229	2,491 ± 25	0.73341 ± 0.00229
319	Ev.br.leaf	439.9	430.9	2,794	2,697	OxA-X-2303-36	V V	g	0.875	2,487 ± 27	0.73374 ± 0.00247	2,482 ± 27	0.73423 ± 0.00246
318	Ev.br.leaf	428.4	420.4	2,706	2,616	SUERC-23360		g	1.029	2,514 ± 35	0.73124 ± 0.00320	2,510 ± 35	0.73166 ± 0.00320
22	Ev.br.leaf (*Castanopsis* ?)	413.9	405.9	2,581	2,501	OxA-24235	V V	G	2.887	2,426 ± 25	0.73934 ± 0.00230	2,424 ± 25	0.73948 ± 0.00230
22	Ev.br.leaf (*Castanopsis* ?)	413.9	405.9	2,581	2,501	OxA-24236	V V	G	2.896	2,489 ± 26	0.73356 ± 0.00235	2,487 ± 26	0.73371 ± 0.00235
22	Ev.br.leaf (*Castanopsis* ?)	413.9	405.9	2,581	2,501	OxA-X-2316-07	V V	vsg	0.051	3,226 ± 208	0.66924 ± 0.01735	3,100 ± 200	0.67962 ± 0.01676
21	Ev.br.leaf (*Castanopsis* ?)	413.9	405.9	2,581	2,501	SUERC-20472		g	4.393	2,499 ± 37	0.73260 ± 0.00338	2,498 ± 37	0.73270 ± 0.00338
317	Ev.br.leaf	406.3	398.3	2,514	2,408	OxA-24183	V V	G	3.409	2,483 ± 28	0.73408 ± 0.00258	2,482 ± 28	0.73420 ± 0.00258
317	Ev.br.leaf	406.3	398.3	2,514	2,408	SUERC-13335		g	2.732	2,456 ± 35	0.73655 ± 0.00320	2,455 ± 35	0.73670 ± 0.00320
562	Dec.br.leaf	399.0	391.0	2,450	2,388	SUERC-25984		g	1.457	2,411 ± 37	0.74074 ± 0.00340	2,408 ± 37	0.74102 ± 0.00340

Appendix 12 (continued):

SG06 sample ID (#)	Sample type	SG06 CD (cm)	SG06 EFD (cm)	SG06 yr BP	Expected radiocarbon age (BP)	AMS target ID	ORAU pre-treatment protocol	Target type	C yield (mg)	Conventional radiocarbon date (± 1σ)	$F^{14}C$ (± 1σ)	Uncorrected radiocarbon date (± 1σ)	Uncorrected $F^{14}C$ (± 1σ)
528	Dec.br.leaf	392.9	384.9	2,396	2,337	OxA-X-2347-43	V V	G	2.435	2,227 ± 24	0.75789 ± 0.00222	2,225 ± 24	0.75805 ± 0.00222
529	Dec.br.leaf	387.3	379.3	2,347	2,291	SUERC-26358		g	2.705	2,308 ± 35	0.75030 ± 0.00329	2,306 ± 35	0.75045 ± 0.00329
316	Ev.br.leaf	369.0	361.0	2,208	2,228	OxA-24243	V V	G	2.375	2,109 ± 27	0.76908 ± 0.00259	2,107 ± 27	0.76924 ± 0.00259
316	Ev.br.leaf	369.0	361.0	2,208	2,228	OxA-24244	V V	G	2.279	2,123 ± 27	0.76774 ± 0.00261	2,121 ± 27	0.76790 ± 0.00261
566	Dec.br.leaf	362.7	354.7	2,160	2,108	SUERC-25983		g	1.168	2,256 ± 37	0.75513 ± 0.00347	2,253 ± 37	0.75546 ± 0.00346
583	Ev.br.leaf	344.6	336.6	2,005	2,001	SUERC-26357		g	5.052	2,046 ± 35	0.77511 ± 0.00340	2,046 ± 35	0.77518 ± 0.00341
581	Ev.br.leaf	337.0	329.0	1,942	2,012	OxA-24319	V V	G	2.108	1,915 ± 26	0.78793 ± 0.00259	1,913 ± 26	0.78809 ± 0.00259
315	Ev.br.leaf	321.7	314.2	1,828	1,877	SUERC-20499		g	1.125	1,944 ± 37	0.78506 ± 0.00359	1,941 ± 37	0.78537 ± 0.00358
556	Ev.br.leaf	307.2	299.7	1,704	1,832	OxA-24379	V V	G	2.684	1,744 ± 24	0.80482 ± 0.00238	1,743 ± 24	0.80494 ± 0.00238
556	Ev.br.leaf	307.2	299.7	1,704	1,832	SUERC-26728		g	3.246	1,775 ± 35	0.80178 ± 0.00349	1,774 ± 35	0.80187 ± 0.00349
559	Ev.br.leaf	298.8	291.3	1,638	1,753	SUERC-25982		g	1.816	1,809 ± 37	0.79832 ± 0.00366	1,808 ± 37	0.79850 ± 0.00366
625	Dec.br.leaf & small twig	290.6	283.1	1,573	1,698	OxA-24299	V V	g	0.713	1,798 ± 29	0.79942 ± 0.00284	1,794 ± 28	0.79987 ± 0.00283
624	Ev.br.leaf	269.4	261.9	1,396	1,545	SUERC-26356		g	1.918	1,535 ± 35	0.82602 ± 0.00363	1,534 ± 35	0.82617 ± 0.00363
389	Ev.br.leaf	263.4	255.9	1,346	1,482	OxA-24266	V V	G	2.824	1,445 ± 26	0.83539 ± 0.00269	1,444 ± 26	0.83548 ± 0.00269
554	Ev.br.leaf	251.8	244.3	1,251	1,380	SUERC-25981		g	5.245	1,344 ± 35	0.84597 ± 0.00369	1,343 ± 35	0.84602 ± 0.00369
313	Ev.br.leaf	233.9	226.4	1,098	1,190	OxA-24233	V V	g	1.257	1,251 ± 22	0.85582 ± 0.00236	1,249 ± 22	0.85600 ± 0.00236
390	Ev.br.leaf	222.5	215.0	1,000	1,090	SUERC-23361		g	2.818	1,125 ± 35	0.86932 ± 0.00379	1,124 ± 35	0.86939 ± 0.00379
312	Twig	211.8	204.3	907	1,022	OxA-24191	V V	G	2.752	927 ± 24	0.89098 ± 0.00268	927 ± 24	0.89104 ± 0.00268
310	Ev.br.leaf	177.6	176.6	682	750	SUERC-20471		g	5.250	757 ± 37	0.91007 ± 0.00414	757 ± 37	0.91010 ± 0.00414
623	Dec.br.leaf	152.0	151.5	574	645	SUERC-26355		g	1.393	694 ± 35	0.91722 ± 0.00402	693 ± 35	0.91732 ± 0.00402
308	Twig	136.4	135.9	505	591	OxA-X-2270-49	V V	G	2.769	436 ± 25	0.94715 ± 0.00293	436 ± 25	0.94718 ± 0.00293
622	Dec.br.leaf	113.8	113.3	397	507	SUERC-26727		g	1.071	457 ± 35	0.94469 ± 0.00412	456 ± 35	0.94478 ± 0.00412
307	Ev.br.leaf	108.4	107.9	371	444	OxA-24231	V V	G	3.000	505 ± 23	0.93908 ± 0.00273	505 ± 23	0.93911 ± 0.00273
307	Ev.br.leaf	108.4	107.9	371	444	OxA-X-2248-48	V V	G	1.868	730 ± 24	0.91309 ± 0.00274	730 ± 24	0.91316 ± 0.00274
621	Dec.br.leaf	103.6	103.1	347	437	SUERC-25980		g	3.118	406 ± 35	0.95074 ± 0.00414	406 ± 35	0.95077 ± 0.00414
305	Dec.br.leaf	67.5	67.0	167	210	OxA-24276	V V	G	1.980	259 ± 24	0.96829 ± 0.00294	259 ± 24	0.96832 ± 0.00294
696	Ev.br.leaf	42.0	42.0	60	76	OxA-24328	V V	g	1.028	96 ± 27	0.98812 ± 0.00333	96 ± 27	0.98814 ± 0.00333
696	Ev.br.leaf	42.0	42.0	60	76	SUERC-26724		g	1.157	136 ± 37	0.98319 ± 0.00452	136 ± 37	0.98321 ± 0.00452

Appendix 13: Background correction.

As was described in section 7.2.1, there appeared to be size-related offsets in the radiocarbon data produced from SG06 plant macrofossil samples, suggesting that further background correction was necessary.

To achieve this secondary background correction, the following procedure was performed:

- Data from the two contributing AMS facilities, were separately arranged in stratigraphic order, and $\Delta^{14}C$ calculated for each data point ('$\Delta^{14}C_0$') using the SG06 vyr timescale (i.e. SG06 floating varve year plus the wiggle-matched age obtained for the U-Oki tephra from OCM-7.1; section 7.4.1).
- A weighted mean comparison $\Delta^{14}C$ value ('$\Delta^{14}C_{comp}$') was calculated for each dated sample based upon the values of the two adjacent dated samples below, and two adjacent dated samples above (weighted so that the nearer two samples contributed twice as much as the further two samples).
- A test statistic, x, was subsequently calculated, by:

[A.7] $$x = \frac{\Delta^{14}C_0 - \Delta^{14}C_{comp}}{\sqrt{(\sigma_0)^2 + (\sigma_{comp})^2}}$$

where: σ_0 is the uncertainty on the calculated $\Delta^{14}C$ value of the original sample measurement ($\Delta^{14}C_0$), and σ_{comp} is the uncertainty on the weighted mean comparison $\Delta^{14}C$ value ($\Delta^{14}C_{comp}$).

- Σx^2 was then calculated for the entire radiocarbon dataset of each contributing laboratory.
- Defined quantities of both modern- ($F^{14}C = 1$) and 'dead'- ($F^{14}C = 0$) carbon contamination were added to all samples in an iterative manner until a minimum value for Σx^2 was achieved (i.e. maximising the internal consistency of both laboratories' datasets).

Corroboration is given for the suggested 1.6 ± 0.8 μg modern C contribution (and no 'old' carbon contamination), since the independent statistical interrogation of each of the contributing laboratories' datasets revealed identical values (to one decimal place). This secondary correction was therefore applied to all SG06 plant macrofossil radiocarbon determinations quoted throughout this DPhil thesis.

Appendix 14: Contingency tables derived to assess the potential offsets between the respective SG06 plant macrofossil sample types dated.

(a): deciduous broad leaves

H_0: radiocarbon determinations, as compared to their 'expected values' (section 7.5), are independent of sample type.

H_1: radiocarbon determinations, as compared to their 'expected values', are dependent upon sample type.

		Sample type		
		Deciduous broad leaves	Other	Total:
Radiocarbon determinations older than expected values	Observed, O_i	209	69	278
	Expected, E_i	201.04	76.96	
	$(O_i - E_i)^2 / E_i$	0.315	0.824	
Radiocarbon determinations younger than expected values	Observed, O_i	222	96	318
	Expected, E_i	229.96	88.04	
	$(O_i - E_i)^2 / E_i$	0.276	0.720	
	Total:	431	165	596

Critical value, χ^2_1 (at the 95% significance level; 1 degree of freedom) = 3.841 (appendix 6).

Since $\Sigma (O_i - E_i)^2 / E_i$ (2.135) does not exceed χ^2_1 (3.841), there is insufficient evidence to reject the null hypothesis, H_0 (at the 95% significance level): SG06 plant macrofossil radiocarbon determinations are independent of sample type.

Appendix 14 (b): evergreen broad leaves

H_0: radiocarbon determinations, as compared to their ‘expected values’ (section 7.5), are independent of sample type.

H_1: radiocarbon determinations, as compared to their ‘expected values’, are dependent upon sample type.

		Sample type		
		Evergreen broad leaves	Other	Total:
Radiocarbon determinations older than expected values	Observed, O_i	35	243	278
	Expected, E_i	34.98	243.02	
	$(O_i - E_i)^2 / E_i$	0.000	0.000	
Radiocarbon determinations younger than expected values	Observed, O_i	40	278	318
	Expected, E_i	40.02	277.98	
	$(O_i - E_i)^2 / E_i$	0.000	0.000	
	Total:	75	521	596

Critical value, χ^2_1 (at the 95% significance level; 1 degree of freedom) = 3.841 (appendix 6).

Since $\Sigma (O_i - E_i)^2 / E_i$ (0.000) does not exceed χ^2_1 (3.841), there is insufficient evidence to reject the null hypothesis, H_0 (at the 95% significance level): SG06 plant macrofossil radiocarbon determinations are independent of sample type.

Appendix 14 (c): conifer needles

H_0: radiocarbon determinations, as compared to their 'expected values' (section 7.5), are independent of sample type.

H_1: radiocarbon determinations, as compared to their 'expected values', are dependent upon sample type.

		Sample type		
		Conifer needles	Other	Total:
Radiocarbon determinations older than expected values	Observed, O_i	3	275	278
	Expected, E_i	5.13	272.87	
	$(O_i - E_i)^2 / E_i$	0.885	0.017	
Radiocarbon determinations younger than expected values	Observed, O_i	8	310	318
	Expected, E_i	5.87	312.13	
	$(O_i - E_i)^2 / E_i$	0.774	0.015	
	Total:	11	585	596

Critical value, χ^2_1 (at the 95% significance level; 1 degree of freedom) = 3.841 (appendix 6).

Since $\Sigma (O_i - E_i)^2 / E_i$ (1.690) does not exceed χ^2_1 (3.841), there is insufficient evidence to reject the null hypothesis, H_0 (at the 95% significance level): SG06 plant macrofossil radiocarbon determinations are independent of sample type.

Appendix 14 (d): bark

H_0: radiocarbon determinations, as compared to their 'expected values' (section 7.5), are independent of sample type.

H_1: radiocarbon determinations, as compared to their 'expected values', are dependent upon sample type.

		Sample type		
		Bark	Other	Total:
Radiocarbon determinations older than expected values	Observed, O_i	9	269	278
	Expected, E_i	13.99	264.01	
	$(O_i - E_i)^2 / E_i$	1.782	0.094	
Radiocarbon determinations younger than expected values	Observed, O_i	21	297	318
	Expected, E_i	16.01	301.99	
	$(O_i - E_i)^2 / E_i$	1.558	0.083	
	Total:	30	566	596

Critical value, χ^2_1 (at the 95% significance level; 1 degree of freedom) = 3.841 (appendix 6).

Since $\Sigma\ (O_i - E_i)^2 / E_i$ (3.516) does not exceed χ^2_1 (3.841), there is insufficient evidence to reject the null hypothesis, H_0 (at the 95% significance level): SG06 plant macrofossil radiocarbon determinations are independent of sample type.

Appendix 14 (e): twigs

H_0: radiocarbon determinations, as compared to their ‘expected values’ (section 7.5), are independent of sample type.

H_1: radiocarbon determinations, as compared to their ‘expected values’, are dependent upon sample type.

		Sample type		
		Twigs	Other	Total:
Radiocarbon determinations older than expected values	Observed, O_i	13	265	278
	Expected, E_i	12.59	265.41	
	$(O_i - E_i)^2 / E_i$	0.013	0.001	
Radiocarbon determinations younger than expected values	Observed, O_i	14	304	318
	Expected, E_i	14.41	303.59	
	$(O_i - E_i)^2 / E_i$	0.011	0.001	
	Total:	27	569	596

Critical value, χ^2_1 (at the 95% significance level; 1 degree of freedom) = 3.841 (appendix 6).

Since $\Sigma (O_i - E_i)^2 / E_i$ (0.026) does not exceed χ^2_1 (3.841), there is insufficient evidence to reject the null hypothesis, H_0 (at the 95% significance level): SG06 plant macrofossil radiocarbon determinations are independent of sample type.

Appendix 15: ‘Smoothing’ of the Lake Suigetsu $\Delta^{14}C$ Dataset

To account for the inherent variability of individual radiocarbon determinations, a ‘smoothing’ algorithm was applied to generate a ‘running mean’ (best-fit) of the final Lake Suigetsu (combined SG93 and SG06) radiocarbon calibration dataset (after having performed the outlier removal protocol, described in sections 7.5 and 7.6). This running mean was achieved at each dated horizon, with additional data included from the overlying and underlying two dated horizons. This running mean $\Delta^{14}C$ value (‘$\Delta^{14}C_{wm}$’) was therefore calculated with a weighting of $^{2}/_{5}$ for the $\Delta^{14}C$ value of the central dated horizon (‘d_0’), $^{2}/_{5}$ for the weighted mean of the two dated depth horizons immediately adjacent to d_0 (‘d_1’), and $^{1}/_{5}$ for the weighted mean of the two dated depth horizons two above-, and two below d_0 (‘d_2’). This weighting is such that the central dated depth horizon (d_0) is weighted twice as much as the dated horizons either side of it (as d_1 is composed of two dated horizons, whereas d_0 represents only one dated horizon), which in turn are weighted twice as much as d_2 – the horizons two above- and two below the horizon in question. An equivalent value for the error limits (σ_{wm}) was obtained in a similar manner.

No such method of data ‘smoothing’ is ideal, since it is unclear whether short-term variation in measurements simply represent ‘noise’ in the measured signal, or whether the observed deviations represent authentic variability. The method implemented here was necessarily applied as a compromise between these dual possibilities, and was performed for visualisation purposes only (section 8.1.4).