

**Laboratory of Archaeological Technology, Leningrad (RUL-)<sup>1</sup>**

<sup>1</sup> Some measurements from this laboratory have been published (ref. 168) as a translation of a partial list compiled by S. V. Butomo. Some of the same measurements, a few of which appear with code designation Le- instead of RUL-, have been reprinted from other secondary sources by C. S. Chard (refs. 183, 184). Scrutiny by the laboratory, necessary for entry in this Index, has not yet been arranged for any of these measurements.

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<i>Laboratory number</i>	<i>Published reference</i>	<i>Original date or other value</i>	<i>Corrected date or other value</i>	$\Delta C^{14}, \text{‰}$	<i>A.D./ B.C. date</i>
LJ-3 <sup>3</sup>	73:201	6510 ± 200			4560 B.C.
-5	73:201	3100 ± 300			1150 B.C.
-6 <sup>3</sup>	73:202	5020 ± 200			3070 B.C.
-7	73:202	1000 ± 200			A.D. 950
-8	73:202	550 ± 200			A.D. 1400
-9	73:203	See LJ-19			
-12 <sup>3</sup>	73:203	1900 ± 300			A.D. 50
-13 <sup>3</sup>	73:203	>25,000			
-15	73:203	300 ± 100			A.D. 1650
-16	73:203	700 ± 150			A.D. 1250
-17	73:204	<200			
-19 <sup>3</sup>	73:204	3700 ± 200			1750 B.C.
-20 <sup>3</sup>	73:204	1170 ± 200			A.D. 780
-21 <sup>3</sup>	73:205	>37,000			
-23	73:205	<400			
-24	73:205	See LJ-20			
-25	73:205	1750 ± 200			A.D. 200
-26 <sup>3</sup>	73:206	6100 ± 200			4150 B.C.
-27 <sup>3</sup>	73:206	7400 ± 200			5450 B.C.
-28	73:207	1000 ± 250			A.D. 950
-29	73:207	2500 ± 300			550 B.C.
-30	73:207	600 ± 150			A.D. 1350
-31 <sup>3</sup>	73:207	3900 ± 200			1950 B.C.
-32	73:208	See LJ-35			
-33	73:208	400 ± 200			A.D. 1550
-34 <sup>3</sup>	73:208	1450 ± 200			A.D. 500
-35 <sup>3</sup>	73:209	3500 ± 200			1550 B.C.
-36 <sup>3</sup>	73:209	7300 ± 200			5350 B.C.
-37 <sup>3</sup>	73:209	950 ± 200			A.D. 1000
-38 <sup>3</sup>	73:209	2100 ± 200			150 B.C.
-48 <sup>4</sup>	155:70	680 ± 80		-80 ± 10	
-55	73:210	14,400 ± 300			12,450 B.C.
-65 <sup>4</sup>	155:70	500 ± 60		-35 ± 10	
-70 <sup>4</sup>	155:70	580 ± 70		-60 ± 10	
-71 <sup>3</sup>	73:210	2700 ± 100			750 B.C.
-75	73:210	1150 ± 150			A.D. 800
-76	73:211	2350 ± 150			400 B.C.
-77 <sup>3</sup>	73:211	4950 ± 200			3000 B.C.
-78 <sup>3</sup>	73:211	3460 ± 200			1510 B.C.
-79 <sup>3</sup>	73:212	6700 ± 150			4750 B.C.
-82	73:212	>28,000			
-83 <sup>3</sup>	73:213	1600 ± 150			A.D. 350
-84 <sup>3</sup>	73:213	1060 ± 150			A.D. 890
-85	73:213	960 ± 150			A.D. 990
-86 <sup>3, 4</sup>	155:70	720 ± 90		-35 ± 10	
-87	73:213	1140 ± 200			A.D. 810
-89	73:214	>28,000			
-95 <sup>3</sup>	73:214	520 ± 150			A.D. 1430
-96 <sup>3</sup>	73:214	1370 ± 200			A.D. 580

## Radiocarbon Measurements:

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\Delta C^{14}, \text{‰}$	A.D./B.C. date
-97 <sup>s, 4</sup>	155:70	300 ± 40		−37 ± 10	
-98	73:214	1820 ± 200			A.D. 130
-99	73:215	760 ± 100			A.D. 1190
-100	73:215	200 ± 100			A.D. 1750
-101	73:215	1580 ± 200			A.D. 370
-102	73:215	220 ± 100			A.D. 1730
-103	73:216	760 ± 100			A.D. 1190
-105	73:216	1440 ± 100			A.D. 510
-106	73:216	960 ± 100			A.D. 990
-107 <sup>s</sup>	73:217	6400 ± 200			4450 B.C.
-108 <sup>s</sup>	73:217	1580 ± 100			A.D. 370
-109 <sup>s</sup>	73:217	7370 ± 100			5420 B.C.
-110 <sup>s</sup>	73:217	5460 ± 100			3510 B.C.
-111	73:218	1500 ± 100			A.D. 450
-112 <sup>s</sup>	73:218	>40,000			
-120	73:218	10,000 ± 200			8050 B.C.
-121	73:218	4450 ± 200			2500 B.C.
-127 <sup>s</sup>	155:70	840 ± 100		−88 ± 10	
-128 <sup>s</sup>	73:219	900 ± 150			A.D. 1050
-130 <sup>s</sup>	73:219	900 ± 150			A.D. 1050
-131 <sup>s</sup>	73:219	>42,000			
-132 <sup>s</sup>	73:220	1700 ± 150			A.D. 250
-136 <sup>s</sup>	73:220	4720 ± 160			2770 B.C.
-141	73:221	>42,000			
-142	73:221	>42,000			
-199	74:208	2310 ± 220			360 B.C.
-200 <sup>s</sup>	74:208	9640 ± 240			7690 B.C.
-202	74:209	6300 ± 290			4350 B.C.
-203	74:209	2930 ± 200			980 B.C.
-204	74:210	26,300 ± 1500			24,350 B.C.
-205 <sup>s</sup>	74:211	28,200 ± 1300			26,250 B.C.
-206 <sup>s</sup>	74:211	18,070 ± 450			16,120 B.C.
-207 <sup>s</sup>	74:212	2990 ± 220			1040 B.C.
-208	74:212	4230 ± 200			2280 B.C.
-210 <sup>s</sup>	74:212	270 ± 150			A.D. 1680
-211 <sup>s</sup>	74:213	4020 ± 300			2070 B.C.
-212	74:213	3320 ± 200			1370 B.C.
-213 <sup>s</sup>	74:213	2190 ± 260			240 B.C.
-214 <sup>s</sup>	74:214	2550 ± 220			600 B.C.
-215 <sup>s</sup>	74:214	1970 ± 240			20 B.C.
-216	74:214	1510 ± 150			A.D. 440
-217	74:215	>34,000			
-218 <sup>s</sup>	74:215	2120 ± 150			170 B.C.
-220 <sup>s</sup>	74:216	1180 ± 250			A.D. 770
-221 <sup>s</sup>	74:216	5740 ± 240			3790 B.C.
-222	74:216	70 ± 180			A.D. 1880
-223 <sup>s</sup>	74:217	100 ± 150			A.D. 1850
-224 <sup>s</sup>	74:217	630 ± 150			A.D. 1320
-225 <sup>s</sup>	74:217	6370 ± 210			4420 B.C.
-226 <sup>s</sup>	74:218	660 ± 150			A.D. 1290
-227 <sup>s</sup>	74:218	600 ± 200			A.D. 1350
-228	74:218	5970 ± 210			4020 B.C.
-229	74:219	7030 ± 200			5080 B.C.
-230	74:219	5910 ± 210			3960 B.C.
-231 <sup>s</sup>	74:219	7020 ± 260			5070 B.C.
-232 <sup>s</sup>	74:219	110 ± 150			A.D. 1840
-235 <sup>s</sup>	74:220	2090 ± 200			140 B.C.
-236 <sup>s</sup>	74:220	1620 ± 150			A.D. 330
-237 <sup>s</sup>	74:220	300 ± 150			A.D. 1650
-238 <sup>s</sup>	74:221	250 ± 150			A.D. 1700
-240 <sup>s</sup>	74:221	255 ± 150			A.D. 1695

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\Delta C^{14}$ , ‰	A.D./B.C. date
-241 <sup>3</sup>	74:221	1160 ± 200			A.D. 790
-242 <sup>3</sup>	74:222	870 ± 200			A.D. 1080
-243 <sup>3</sup>	74:222	825 ± 200			A.D. 1125
-245 <sup>3</sup>	74:222	1075 ± 150			A.D. 875
-246	74:222	<0.54% of modern			
-247	74:223	<0.54% of modern			
-248	74:223	<0.54% of modern			
-249	74:223	<0.54% of modern			
-250	74:223	<0.54% of modern			
-251	74:223	See LJ-249			
-252	74:223	<0.54% of modern			
-253 <sup>3</sup>	74:223	24,140 ± 800			22,190 B.C.
-254 <sup>3</sup>	74:223	31,540 ± 1300			29,590 B.C.
-255	74:224	See LJ-236			
-256	74:224	6250 ± 150			4300 B.C.
-257	74:224	See LJ-236			
-258	74:224	<100			
-259	74:225	450 ± 150			A.D. 1500
-260	74:225	<100			
-261	74:226	200 ± 150			A.D. 1750
-262	74:226	See LJ 212			
-263 <sup>3</sup>	74:226	600 ± 150			A.D. 1350
-265	74:226	See LJ-260			
-266 <sup>3</sup>	74:226	160 ± 150			A.D. 1790
-267	74:227	See LJ-331			
-268 <sup>3</sup>	74:227	19,300 ± 600			17,350 B.C.
-269 <sup>3</sup>	74:227	19,500 ± 500			17,550 B.C.
-271	74:228	>40,000			
-270	74:228	>40,000			
-272	74:228	1090 ± 200			A.D. 860
-273	74:229	1090 ± 200			A.D. 860
-274 <sup>3</sup>	74:229	4970 ± 200			3020 B.C.
-275 <sup>3</sup>	74:230	6400 ± 200			4450 B.C.
-276 <sup>3</sup>	74:230	4840 ± 200			2890 B.C.
-277 <sup>3</sup>	74:230	4740 ± 200			2790 B.C.
-278	74:230	See LJ-335			
-279	74:230	2200 ± 200			250 B.C.
-280 <sup>3</sup>	74:231	19,300 ± 400			17,350 B.C.
-281	115:257	6600 ± 200			4650 B.C.
-290	115:257	5000 ± 250			3050 B.C.
-314	74:231	4250 ± 200			2300 B.C.
-322 <sup>3</sup>	74:232	26,640 ± 1100			24,690 B.C.
-323 <sup>3</sup>	74:232	31,840 ± 1000			29,890 B.C.
-331	74:232	1300 ± 200			A.D. 650
-332 <sup>3</sup>	74:232	6165 ± 250			4215 B.C.
-333 <sup>3</sup>	74:233	6320 ± 250			4370 B.C.
-334 <sup>3</sup>	74:233	6055 ± 250			4105 B.C.
-335 <sup>3</sup>	74:234	1030 ± 200			A.D. 920
-336 <sup>3</sup>	74:234	4520 ± 220			2570 B.C.
-344-346	74:234	>34,000			
-381 <sup>3</sup>	74:234	3400 ± 240			1450 B.C.
-382 <sup>3</sup>	74:235	3240 ± 240			1290 B.C.
-384	74:235	See LJ-386			
-385 <sup>3</sup>	74:235	3190 ± 200			1240 B.C.
-386 <sup>3</sup>	74:235	1270 ± 250			A.D. 680
-399 <sup>3</sup>	74:236	9860 ± 200			7910 B.C.
-411 <sup>3</sup>	115:258	>35,000			
-448 <sup>3</sup>	115:258	1050 ± 150			A.D. 900
-449 <sup>3</sup>	115:258	4770 ± 160			2820 B.C.
-450 <sup>3</sup>	115:259	>35,000			
-451	115:259	3980 ± 150			2030 B.C.

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-452	115:259	11,690 ± 250			9740 B.C.
-453 <sup>3</sup>	115:260	1620 ± 160			A.D. 330
-454 <sup>3</sup>	115:260	7530 ± 140			5580 B.C.
-456	115:260	>34,000			
-457 <sup>3</sup>	115:260	13,040 ± 200			11,090 B.C.
-458 <sup>3</sup>	115:261	1890 ± 500			A.D. 60
-500 <sup>3</sup>	115:261	17,660 ± 450			15,710 B.C.
-501	115:262	440 ± 110			A.D. 1510
-502	115:262	See LJ-533			
-503	115:262	4790 ± 200			2840 B.C.
-504 <sup>3</sup>	115:262	37,100 ± 2000			35,150 B.C.
-505	115:263	2925 ± 340			975 B.C.
-508	115:263	2130 ± 200			180 B.C.
-509 <sup>3</sup>	115:264	19,440 ± 600			17,490 B.C.
-510 <sup>3</sup>	115:264	21,000 ± 600			19,050 B.C.
-511	115:264	2330 ± 220			380 B.C.
-512 <sup>3</sup>	115:264	4650 ± 260			2700 B.C.
-513 <sup>3</sup>	115:265	1800 ± 200			A.D. 150
-514	115:265	970 ± 250			A.D. 980
-515 <sup>3</sup>	115:265	26,640 ± 600			24,690 B.C.
-516 <sup>3</sup>	115:265	16,910 ± 500			14,960 B.C.
-517 <sup>3</sup>	115:265	1480 ± 150			A.D. 470
-518 <sup>3</sup>	115:266	3175 ± 220			1225 B.C.
-520 <sup>3</sup>	115:266	16,490 ± 600			14,540 B.C.
-521 <sup>3</sup>	115:266	33,250 ± 1000			31,300 B.C.
-522 <sup>3</sup>	115:266	2190 ± 200			240 B.C.
-523 <sup>3</sup>	115:267	4830 ± 260			2880 B.C.
-524 <sup>3</sup>	115:267	1060 ± 300			A.D. 890
-525 <sup>3</sup>	115:267	690 ± 130			A.D. 1260
-526 <sup>3</sup>	115:267	7840 ± 250			5890 B.C.
-527 <sup>3</sup>	115:268	290 ± 150			A.D. 1660
-528 <sup>3</sup>	115:268	9630 ± 300			7680 B.C.
-529 <sup>3</sup>	115:269	5020 ± 250			3070 B.C.
-530 <sup>3</sup>	115:269	1510 ± 180			A.D. 440
-531	115:270	1520 ± 200			A.D. 430
-532	115:270	>45,000			
-533	115:270	34,400 ± 1000			32,450 B.C.
-539	115:271	4940 ± 300			2990 B.C.
-562 <sup>3</sup>	115:271	2700 ± 500			750 B.C.
-563 <sup>3</sup>	115:271	1440 ± 400			A.D. 510
-564 <sup>3</sup>	115:271	390 ± 150			A.D. 1560
-565 <sup>3</sup>	155:76	17,850 ± 700			15,900 B.C.
-566 <sup>3</sup>	155:76	16,800 ± 700			14,850 B.C.
-567 <sup>3</sup>	155:82	>40,000			
-568A	155:76	5430 ± 300			3480 B.C.
-568B <sup>3</sup>	155:76	5000 ± 300			3050 B.C.
-569 <sup>3</sup>	155:80	>40,000			
-570 <sup>3</sup>	155:80	7540 ± 300			5590 B.C.
-571 <sup>3</sup>	155:77	2600 ± 200			650 B.C.
-572 <sup>3</sup>	155:77	2460 ± 200			510 B.C.
-573 <sup>3</sup>	155:77	1750 ± 200			A.D. 200
-574 <sup>3</sup>	155:77	2420 ± 200			470 B.C.
-575 <sup>3</sup>	155:77	2950 ± 200			1000 B.C.
-576 <sup>3</sup>	155:78	780 ± 200			A.D. 1170
-577	155:85	3560 ± 200			1610 B.C.
-578	155:84	>40,000			
-579	155:86	2200 ± 150			250 B.C.
-580	155:86	4670 ± 250			2720 B.C.
-581	155:86	2730 ± 150			780 B.C.
-582	155:86	3260 ± 200			1310 B.C.
-583	155:86	6270 ± 300			4320 B.C.

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\Delta C^{14}$ , ‰	A.D./B.C. date
-584	155:86	17,250 ± 700			15,300 B.C.
-585	155:86	5850 ± 250			3900 B.C.
-586	155:86	2590 ± 125			640 B.C.
-587	155:86	2250 ± 200			300 B.C.
-588	155:86	3530 ± 170			1530 B.C.
-589	155:86	4080 ± 200			2130 B.C.
-590	155:86	5040 ± 250			3090 B.C.
-591	155:86	1430 ± 150			A.D. 520
592 <sup>3</sup>	155:104	305 ± 150			A.D. 1645
-593 <sup>3</sup>	155:104	3470 ± 175			1520 B.C.
-594 <sup>3</sup>	155:104	4620 ± 200			2670 B.C.
-595 <sup>3</sup>	155:105	4090 ± 200			2140 B.C.
-596 <sup>3</sup>	155:111	3120 ± 150			1170 B.C.
-597 <sup>3</sup>	155:80	>40,000			
-598 <sup>3</sup>	155:80	>40,000			
-599 <sup>3</sup>	155:105	7330 ± 360			5380 B.C.
-600 <sup>3</sup>	155:104	460 ± 150			A.D. 1490
-601 <sup>3</sup>	155:101	2880 ± 150			930 B.C.
-602 <sup>3</sup>	155:101	2380 ± 150			430 B.C.
-603 <sup>3</sup>	155:78	530 ± 130			A.D. 1420
-604	155:91	4460 ± 250			2510 B.C.
-605	155:91	4250 ± 200			2300 B.C.
-606	155:92	<300			
-607	155:74	8270 ± 500			6320 B.C.
-608	155:91	<300			
-609 <sup>3</sup>	155:103	2120 ± 300			170 B.C.
-610	155:92	<300			
-611 <sup>3</sup>	155:112	1800 ± 300			A.D. 150
-612	155:99	450 ± 200			A.D. 1500
-615 <sup>3</sup>	155:102	2200 ± 220			250 B.C.
-616 <sup>3</sup>	155:102	1310 ± 160			A.D. 640
-617 <sup>3</sup>	155:102	610 ± 100			A.D. 1340
-618 <sup>3</sup>	155:102	2220 ± 200			270 B.C.
-619 <sup>3</sup>	155:102	1270 ± 160			A.D. 680
-620 <sup>3</sup>	155:102	2520 ± 300			570 B.C.
-621 <sup>3</sup>	155:102	1960 ± 160			10 B.C.
-622 <sup>3</sup>	155:102	1470 ± 100			A.D. 480
-623 <sup>3</sup>	155:102	2260 ± 300			310 B.C.
-624 <sup>3</sup>	155:102	1350 ± 200			A.D. 600
-625 <sup>3</sup>	155:102	530 ± 100			A.D. 1420
-626 <sup>3</sup>	155:102	9160 ± 700			7210 B.C.
-627 <sup>3</sup>	155:102	8000 ± 500			6050 B.C.
-628 <sup>3</sup>	155:102	5600 ± 500			3650 B.C.
-629 <sup>3</sup>	155:102	9500 ± 800			7550 B.C.
-630 <sup>3</sup>	155:102	10,000 ± 1000			8050 B.C.
-631 <sup>3</sup>	155:85	15,500 ± 600			13,550 B.C.
-632 <sup>3</sup>	155:85	21,950 ± 700			20,000 B.C.
-633 <sup>3</sup>	155:85	26,950 ± 1000			25,000 B.C.
-634 <sup>3</sup>	155:78	>42,000			
-635 <sup>3</sup>	155:79	32,800 ± 1600			30,850 B.C.
-636 <sup>3</sup>	155:79	>42,000			
-637	155:87	3300 ± 150			1350 B.C.
-638	155:87	3660 ± 150			1710 B.C.
-639	155:87	3710 ± 150			1760 B.C.
-640	155:87	2000 ± 200			50 B.C.
-641	155:87	5400 ± 200			3450 B.C.
-642	155:87	10,310 ± 400			8360 B.C.
-643	155:87	14,150 ± 600			12,200 B.C.
-644	155:87	11,500 ± 500			9550 B.C.
-645	155:112	1660 ± 200			A.D. 290
-648 <sup>3,4</sup>	155:70	210 ± 10			

## Radiocarbon Measurements:

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\Delta C^{14}$ , ‰	A.D./B.C. date
-649	155:92	<300			
-658	155:103	10,250 ± 350			8300 B.C.
-701 <sup>a</sup>	155:71	210 ± 10			
-753 <sup>3</sup>	155:81	8370 ± 250			6420 B.C.
-779 <sup>3</sup>	155:100	>50,000			
-817	155:103	$\Delta$ —384 ± 50			
-818	155:103	$\Delta$ —184 ± 50			
-884	155:88	2400 ± 200			450 B.C.
-885	155:88	2540 ± 140			590 B.C.
-886	155:88	2670 ± 200			720 B.C.
-888	155:100	320 ± 150			A.D. 1630
-889	155:100	190 ± 120			A.D. 1760
-890	155:100	290 ± 130			A.D. 1660
-892 <sup>3</sup>	155:106	7100 ± 300			5150 B.C.
-893 <sup>3</sup>	155:107	6600 ± 300			4650 B.C.
-894 <sup>3, 4</sup>	155:71	186 ± 20			
-895 <sup>3</sup>	155:96	30,950 ± 1000			29,000 B.C.
-896 <sup>3, 4</sup>	155:71	240 ± 50			
-897	155:107	360 ± 120			A.D. 1590
-899 <sup>3</sup>	155:80	18,000 ± 160			16,050 B.C.
-900 <sup>3</sup>	155:107	5680 ± 250			3730 B.C.
-901 <sup>3</sup>	155:108	4100 ± 160			2150 B.C.
-902 <sup>3</sup>	155:92	21,900 ± 600			19,950 B.C.
-903	155:83	6550 ± 300			4600 B.C.
-904	155:83	7650 ± 400			5700 B.C.
-905	155:81	270 ± 150			A.D. 1680
-906	155:81	290 ± 150			A.D. 1660
-907	155:83	2710 ± 150			760 B.C.
-908	155:84	3380 ± 180			1430 B.C.
-909 <sup>3</sup>	155:108	4650 ± 200			2700 B.C.
-910 <sup>3</sup>	155:80	>50,000			
-911	155:82	Modern			
-912 <sup>3</sup>	155:74	4750 ± 200			2800 B.C.
-913 <sup>3</sup>	155:82	23,800 ± 900			21,850 B.C.
-914	155:108	3550 ± 150			1600 B.C.
-915	155:108	3850 ± 150			1900 B.C.
-916	155:81	15,000 ± 600			13,050 B.C.
-917	155:81	1600 ± 160			A.D. 350
-918 <sup>3</sup>	155:74	3700 ± 200			1750 B.C.
-919 <sup>3</sup>	155:74	1000 ± 200			A.D. 950
-920 <sup>3</sup>	155:79	710 ± 150			A.D. 1240
-922	155:112	2200 ± 200			250 B.C.
-923	155:112	5480 ± 200			3530 B.C.
-924 <sup>3</sup>	155:112	6140 ± 250			4190 B.C.
-925 <sup>3</sup>	155:112	2600 ± 200			650 B.C.
-926 <sup>3</sup>	155:105	1510 ± 200			A.D. 440
-927 <sup>3</sup>	155:105	4870 ± 200			2920 B.C.
-928 <sup>3</sup>	155:89	>50,000			
-929 <sup>3</sup>	155:98	8350 ± 300			6400 B.C.
-930 <sup>3</sup>	155:98	10,870 ± 450			8920 B.C.
-931 <sup>3</sup>	155:98	13,190 ± 500			11,240 B.C.
-932 <sup>3</sup>	155:98	10,260 ± 400			8310 B.C.
-933 <sup>3</sup>	155:98	13,670 ± 550			11,720 B.C.
-934 <sup>3</sup>	155:98	11,630 ± 500			9680 B.C.
-935 <sup>3</sup>	155:99	9160 ± 400			7210 B.C.
-936	155:78	1170 ± 150			A.D. 780
-937 <sup>3</sup>	155:80	>42,000			
-938	155:72	700 ± 130			A.D. 1250
-939	155:72	725 ± 130			A.D. 1225
-942	155:73	Ca. 0 ± 100 ‰	[modern]		
<b>-943</b>	<b>155:73</b>	<b>1360 ± 150</b>			A.D. 590

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\Delta C^{14}$ , ‰	A.D./B.C. date
-944	155:73	550 ± 120			A.D. 1400
-945	155:73	380 ± 120			A.D. 1570
-946 <sup>3</sup>	155:80	>50,000			
-947 <sup>3</sup>	155:81	>50,000			
-948 <sup>3</sup>	155:81	39,100 ± 1500			37,150 B.C.
-949 <sup>3</sup>	155:82	1000 ± 140			A.D. 950
-950 <sup>3</sup>	155:83	1500 ± 160			A.D. 450
-951 <sup>3</sup>	155:83	1510 ± 170			A.D. 440
-952 <sup>3</sup>	155:83	760 ± 140			A.D. 1190
-953 <sup>3</sup>	155:75	1970 ± 200			20 B.C.
-954 <sup>3</sup>	155:90	>50,000			
-955 <sup>3</sup>	155:109	575 ± 125			A.D. 1375
-956 <sup>3</sup>	155:78	1420 ± 160			A.D. 530
-957 <sup>3, 4</sup>	155:71	270 ± 20			
-958 <sup>3</sup>	155:97	13,800 ± 600			11,850 B.C.
-959 <sup>3</sup>	155:90	37,400 ± 2000			35,450 B.C.
-960 <sup>3</sup>	155:90	1010 ± 220			A.D. 940
-961 <sup>3</sup>	155:109	7420 ± 350			5470 B.C.
-962 <sup>3</sup>	155:110	2300 ± 150			350 B.C.
-963 <sup>3</sup>	155:114	1490 ± 200			A.D. 460
-964 <sup>3</sup>	155:111	7130 ± 350			5180 B.C.
-965 <sup>3</sup>	155:91	830 ± 140			A.D. 1120
-966 <sup>3</sup>	155:109	7450 ± 370			5500 B.C.
-967 <sup>3</sup>	155:109	9020 ± 500			7070 B.C.
-968 <sup>3</sup>	155:110	2140 ± 150			190 B.C.
-969 <sup>3</sup>	155:106	7480 ± 400			5530 B.C.
-970 <sup>3</sup>	155:84	4800 ± 250			2850 B.C.
-971 <sup>3</sup>	155:75	>50,000			
-972 <sup>3</sup>	155:107	7040 ± 350			5090 B.C.
-973 <sup>3</sup>	155:93	>50,000			
-974 <sup>3</sup>	155:79	>50,000			
-975 <sup>3</sup>	155:114	2580 ± 130			630 B.C.
-976 <sup>3</sup>	155:114	2080 ± 150			130 B.C.
-977 <sup>3</sup>	155:93	13,000 ± 700			11,050 B.C.
-978 <sup>3, 4</sup>	155:71	<100			
-979 <sup>3</sup>	155:93	24,750 ± 1300			22,800 B.C.
-980 <sup>3</sup>	155:93	>35,000			
-981 <sup>3</sup>	155:94	>50,000			
-982 <sup>3</sup>	155:94	18,600 ± 1000			16,650 B.C.
-983 <sup>3</sup>	155:94	17,100 ± 900			15,150 B.C.
-984 <sup>3</sup>	155:94	32,300 ± 1600			30,350 B.C.
-985 <sup>3</sup>	155:94	>45,000			
-986 <sup>3</sup>	155:95	>40,000			
-987 <sup>3</sup>	155:95	>40,000			
-988 <sup>3, 4</sup>	155:72	270 ± 25			
-989 <sup>3</sup>	155:95	22,530 ± 1200			20,580 B.C.
-990 <sup>3</sup>	155:95	31,480 ± 1600			29,530 B.C.
-991 <sup>3</sup>	155:95	32,900 ± 1700			30,950 B.C.
-992	155:88	2070 ± 250			120 B.C.
-993	155:111	2970 ± 250			1020 B.C.

<sup>1</sup> Reference standard is 19th-century wood, not significantly different from 0.95 NBS oxalic acid; carbonate samples are also referred to this standard without correction for isotopic fractionation. Values of  $\delta C^{14}$  can therefore be back-calculated from the dates as published, and have not been entered in column 5.

<sup>2</sup> Samples omitted from this list are mainly geochemical measurements, published out of series; see ref. 155, p. 66, for references to some of them.

<sup>3</sup> Shell or other carbonate sample (see footnote 1).

<sup>4</sup> Modern sample, marine, taken alive.

<sup>5</sup> Sea water carbonate, coll. 1959.

<sup>6</sup> Sea water carbonate, coll. 1963.