

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
-401	126:95	$\delta C^{14} 358 \pm 6 \text{‰}$			
-402	126:94	100.6 $\pm$ 0.8% modern			
-403	126:94	105.2 $\pm$ 0.7% modern			
-404	126:98	10,680 $\pm$ 170			8730 B.C.
-405	126:98	13,500 $\pm$ 650			11,550 B.C.
-406	126:98	1.6% modern			
-407A	126:94	106.8 $\pm$ 0.9% modern			
-407B	126:94	94.3 $\pm$ 2.1% modern			
-408	126:95	98.0 $\pm$ 0.7% modern			
-409	126:95	$\delta C^{14} 365 \pm 5 \text{‰}$			
-410A	126:104	1130 $\pm$ 100			A.D. 820
-410B	126:104	950 $\pm$ 160			A.D. 1000
-411	126:103	710 $\pm$ 40			A.D. 1240
-412	126:103	640 $\pm$ 30			A.D. 1310
-413	126:104	890 $\pm$ 190			A.D. 1060
-415A	126:103	820 $\pm$ 50			A.D. 1130
-415B	126:103	560 $\pm$ 180			A.D. 1390
-417	126:98	28.8% modern			
-418	126:98	4560 $\pm$ 90			2610 B.C.
-424	126:96	51.3 $\pm$ 1.6% modern			
-425a	126:104	1020 $\pm$ 40			A.D. 930
-425b	126:104	1170 $\pm$ 180			A.D. 780
-427	126:104	1160 $\pm$ 160			A.D. 790
-431	126:103	13,060 $\pm$ 600			11,100 B.C.
-432	126:103	1000 $\pm$ 160			950 B.C.
-433	126:105	3770 $\pm$ 60			1820 B.C.
-434	126:105	3660 $\pm$ 50			1710 B.C.
-435	126:105	3560 $\pm$ 70			1610 B.C.
-436	126:106	4730 $\pm$ 50			2780 B.C.
-437	126:106	3620 $\pm$ 70			1670 B.C.
-438	126:93	11.61 $\pm$ 0.57% modern			
-439	126:94	4.72 $\pm$ 0.20% modern			
-440	126:94	6.46 $\pm$ 0.42 modern			
-446	126:95	$\Delta 500 \pm 9 \text{‰}$		508 $\pm$ 9	
-450a	126:100	2550 $\pm$ 160			600 B.C.
-451	126:96	28,500 $\pm$ 4300			26,550 B.C.
-454	126:95	115.1 $\pm$ 2.5% modern			8740 B.C.
-458	126:98	10,690 $\pm$ 650			
-476	126:93	$\Delta + 40 \pm 6 \text{‰}$		46 $\pm$ 6	
-477	126:93	$\Delta + 19 \pm 6 \text{‰}$		24 $\pm$ 6	
-481	126:101	11,170 $\pm$ 360			9220 B.C.
-482	126:96	>42,500			
-486	126:96	<0.55% modern			

### University of Bern, C-14 Laboratory<sup>1</sup>

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
B-8	70:140	1930 $\pm$ 80	1930 $\pm$ 110 a		A.D. 20
-11	70:133	2650 $\pm$ 130	2650 $\pm$ 150 a		700 B.C.
-12	70:134	770 $\pm$ 130	770 $\pm$ 150 a		A.D. 1180
-13	70:134	440 $\pm$ 120	440 $\pm$ 145 a		A.D. 1510
-16	70:140	10,200 $\pm$ 200	10,200 $\pm$ 215 a		8250 B.C.
-17	70:134	5350 $\pm$ 140	5390 $\pm$ 160 a, c		3440 B.C.
-18	70:134	5500 $\pm$ 160	5500 $\pm$ 180 a		3550 B.C.
-19	70:134	5500 $\pm$ 140	5500 $\pm$ 160 a		3550 B.C.
-20	70:138	29,000 $\pm$ 1500	>27,500 d		
-29	70:139	>47,000			

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-30	70:134	3200 ± 130	3200 ± 150 a		1250 B.C.
-32	70:138	720 ± 100	720 ± 130 a		A.D. 1230
-33	70:139	>42,000			
-34	70:135	8070 ± 135	8070 ± 160 a		6120 B.C.
-36	70:134	9250 ± 160	9250 ± 180 a		7300 B.C.
-37	70:135	8150 ± 180	8150 ± 200 a		6200 B.C.
-38	70:134	10,950 ± 250	10,950 ± 260 a		9000 B.C.
-42	70:134	10,100 ± 210	10,100 ± 225 a		8150 B.C.
-43	70:140	4690 ± 130	4690 ± 150 a		2740 B.C.
-44	70:140	4690 ± 180	4690 ± 200 a		2740 B.C.
-45	70:140	4780 ± 130	4780 ± 150 a		2830 B.C.
-50	70:135	1790 ± 120	1790 ± 145 a		A.D. 160
-51	70:135	3530 ± 160	3530 ± 180 a		1580 B.C.
-52	70:135	4400 ± 160	4400 ± 180 a		2450 B.C.
-53	70:135	4920 ± 130	4920 ± 155 a		2970 B.C.
-55	70:135	6850 ± 175	6850 ± 190 a		4900 B.C.
-56	70:135	7550 ± 175	7550 ± 190 a		5600 B.C.
-57	70:135	3670 ± 100	3670 ± 130 a		1720 B.C.
-59	70:135	320 ± 110	320 ± 135 a		A.D. 1630
-66	70:138	1120 ± 100	1120 ± 130 a		A.D. 830
-67	70:138	4670 ± 95	4070 ± 125 a		2720 B.C.
-68	70:139	>42,000			
-69	70:139	>29,000			
-71	70:138	800 ± 100	800 ± 130 a		A.D. 1150
-72	70:136	7330 ± 180	7330 ± 200 a		5380 B.C.
-73	70:136	2600 ± 100	2600 ± 130 a		650 B.B.
-75	70:136	11,230 ± 380	11,230 ± 390 a		9280 B.C.
-77	70:136	7870 ± 240	7870 ± 250 a		5920 B.C.
-78	70:137	6140 ± 150	6140 ± 170 a		4190 B.C.
-79	70:137	5610 ± 130	5610 ± 150 a		3660 B.C.
-80	70:137	5570 ± 130	5570 ± 150 a		3620 B.C.
-81	70:137	3270 ± 130	3270 ± 150 a		1320 B.C.
-82	70:137	960 ± 190	900 ± 205 a		A.D. 990
-83	70:137	7730 ± 240	7730 ± 255 a		5780 B.C.
-84	70:137	5650 ± 150	5050 ± 170 a		3700 B.C.
-87	70:137	2950 ± 110	2950 ± 135 a		1000 B.C.
-88	70:137	5340 ± 100	5340 ± 130 a		3390 B.C.
-90	70:138	8700 ± 220	8700 ± 235 a		6750 B.C.
-91	70:138	6850 ± 100	6850 ± 130 a		4900 B.C.
-92	70:139	22,400 ± 800	>21,000d		
-112	70:137	4700 ± 180	4700 ± 200 a		2750 B.C.
-113	70:137	4000 ± 100	400 ± 130 a		2050 B.C.
-114	70:141	4390 ± 80d	See B-244		
-115	70:141	4950 ± 90	4950 ± 120 a		3000 B.C.
-116	70:141	4840 ± 110	4840 ± 135 a		2890 B.C.
-118A	70:141	4490 ± 90	4490 ± 120 a		2540 B.C.
-118B	70:141	4630 ± 180	4630 ± 200 a		2680 B.C.
-119A	70:141	4750 ± 100	4750 ± 130 a		2800 B.C.
-119B	70:141	4800 ± 130	4800 ± 150 a		2850 B.C.
-120	70:141	4500 ± 100	4500 ± 130 a		2550 B.C.
-121	70:141	4680 ± 100	4680 ± 130 a		2730 B.C.
-122	70:141	4750 ± 100	4750 ± 130 a		2800 B.C.
-123	70:141	4530 ± 100	4530 ± 130 a		2580 B.C.
-124	70:142	130 ± 80	130 ± 110 a		A.D. 1820
-125	70:142	4550 ± 100	4550 ± 130 a		2600 B.C.
-126	70:142	4500 ± 110	4500 ± 135 a		2550 B.C.
-127	70:142	120 ± 80	120 ± 110 a		A.D. 1830
-137	71:16	2500 ± 120	2500 ± 145 a		550 B.C.
-138	71:16	4700 ± 160	4700 ± 180 a		2750 B.C.
-139	71:16	4400 ± 120	4400 ± 145 a		2450 B.C.
-140	71:16	4400 ± 120	4400 ± 145 a		2450 B.C.
-141	71:16	3400 ± 120	3400 ± 145 a		1450 B.C.

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
-145	71:21	3060 ± 100	3060 ± 130 a		1110 B.C.
-146	71:21	2850 ± 130	2850 ± 150 a		900 B.C.
-147	71:21	3320 ± 100	3320 ± 130 a		1370 B.C.
-148	71:21	3550 ± 100	3550 ± 130 a		1600 B.C.
-149	71:21	3570 ± 160	3570 ± 180 a		1620 B.C.
-152	71:22	10,150 ± 200d	10,150 ± 210 a <sup>3</sup>		8200 B.C.
-153	71:22	9500 ± 150d	9500 ± 170 a <sup>3</sup>		7550 B.C.
-154	71:22	4800 ± 90	4800 ± 120 a		2850 B.C.
-163	71:21	500 ± 100	500 ± 130 a		A.D. 1450
-165	71:21	1680 ± 100	1680 ± 130 a		A.D. 270
-166	71:22	1430 ± 80	1430 ± 110 a		A.D. 520
-168	71:22	1640 ± 100	1640 ± 130 a		A.D. 310
-173	71:16	1150 ± 80	1150 ± 110 a		A.D. 800
-174	71:16	480 ± 80	480 ± 110 a		A.D. 1470
-176	71:17	9500 ± 150	9500 ± 165 a		7550 B.C.
-177	71:17	9900 ± 190	9900 ± 205 a		7950 B.C.
-178	71:17	10,900 ± 250	10,900 ± 260 a		8950 B.C.
-179	71:17	5970 ± 160	5970 ± 180 a		4020 B.C.
-187	71:17	2770 ± 120	2770 ± 145 a		820 B.C.
-188	71:17	4700 ± 100	4700 ± 130 a		2750 B.C.
-189	71:17	12,000 ± 200	12,000 ± 210 a		10,050 B.C.
-190	71:17	3250 ± 100	3250 ± 130 a		1300 B.C.
-191	71:17	5100 ± 100	5100 ± 130 a		3150 B.C.
-192	71:17	8150 ± 130	8150 ± 150 a		6200 B.C.
-194	71:18	5350 ± 100			3400 B.C.
-195	71:18	4170 ± 120			2220 B.C.
-196	71:18	1740 ± 200			A.D. 210
-197	71:18	1000 ± 120			A.D. 950
-198	71:18	7080 ± 120			5130 B.C.
-199	119:305	5250 ± 80			3300 B.C.
-200	71:18	3970 ± 110			2020 B.C.
-201	71:18	2500 ± 100			550 B.C.
-202	71:18	6130 ± 110			4180 B.C.
-203	71:18	5820 ± 120			3870 B.C.
-204	119:305	4240 ± 80			2290 B.C.
-205	71:18	1920 ± 90			A.D. 30
-206	71:22	4920 ± 130	4920 ± 150 a		2970 B.C.
-207	71:22	4700 ± 80	4700 ± 110 a		2750 B.C.
-216	71:22	500 ± 200	500 ± 210 a		A.D. 1450
-217	71:22	410 ± 80	410 ± 110 a		A.D. 1540
-218	71:22	600 ± 130	600 ± 150 a		A.D. 1350
-232	71:23	4750 ± 100			2800 B.C.
-233	71:22	940 ± 110			A.D. 1010
-234	71:23	5350 ± 120d <sup>3</sup>			3400 B.C.
-235	71:23	5310 ± 240d <sup>3</sup>			3360 B.C.
-236	71:23	6970 ± 120d <sup>3</sup>			5020 B.C.
-238	71:23	7460 ± 160 <sup>3</sup>			5510 B.C.
-244	71:23	4790 ± 120			2840 B.C.
-245	71:24	4630 ± 120			2680 B.C.
-246	71:23	500 ± 100			A.D. 1450
-247	71:23	2140 ± 80			190 B.C.
-254	71:19	4600 ± 80			2650 B.C.
-258	71:19	4950 ± 100			3000 B.C.
-259	71:19	4490 ± 100			2540 B.C.
-260	71:19	4220 ± 120			2270 B.C.
-261	71:19	2060 ± 100			110 B.C.
-262	71:19	3070 ± 160			1120 B.C.
-265	71:25	26,100 ± 400			24,150 B.C.
-266	71:25	1450 ± 80			A.D. 500
-267A	71:25	2470 ± 150			520 B.C.
-267B	71:25	2530 ± 150			580 B.C.
-271	71:24	1640 ± 100			A.D. 310

## Radiocarbon Measurements:

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta$ C <sup>14</sup> , ‰	A.D./B.C. date
-274	71:24	1030 ± 120			A.D. 920
-280	71:25	1250 ± 100			A.D. 700
-281	71:25	770 ± 120			A.D. 1180
-283	71:19	8300 ± 120			6350 B.C.
-284	71:19	9050 ± 120			7100 B.C.
-285	71:20	4720 ± 100			2770 B.C.
-286	71:20	1050 ± 80			A.D. 900
-287	71:20	2700 ± 100			750 B.C.
-288	71:20	7060 ± 100			5110 B.C.
-289	71:20	5570 ± 120			3620 B.C.
-290	71:20	4170 ± 140			2220 B.C.
-291 <sup>2</sup>	119:305	4920 ± 120			2970 B.C.
-292	71:20	6360 ± 120			4410 B.C.
-293	119:306	3070 ± 160			1120 B.C.
-294	119:306	1500 ± 100			A.D. 450
-295	119:306	1060 ± 100			A.D. 890
-297	71:21	6720 ± 120			4770 B.C.
-298	71:21	4690 ± 100			2740 B.C.
-306	119:306	2530 ± 100			580 B.C.
-307	119:306	2350 ± 100			400 B.C.
-309	119:306	3250 ± 80			1300 B.C.
-311	119:307	2900 ± 120			950 B.C.
-313	119:307	4210 ± 100			2260 B.C.
-318	119:306	>45,000			
-330	119:307	8430 ± 120			6480 B.C.
-331	119:307	4350 ± 100			2400 B.C.
-333	119:307	4950 ± 200			3000 B.C.
-334	119:307	3070 ± 120			1120 B.C.
-336	119:307	10,950 ± 200			9000 B.C.
-337	119:307	11,530 ± 200			9580 B.C.
-338	119:307	11,200 ± 200			9250 B.C.
-339	119:307	11,750 ± 200			9800 B.C.
-355	119:308	3595 ± 100			1640 B.C.
-358	150:2	10,300 ± 180			8350 B.C.
-361	119:308	920 ± 200			A.D. 1030
-362/1	119:308	1760 ± 100			A.D. 190
-362/2	119:308	1860 ± 100			A.D. 90
-364	150:2	130 ± 100			A.D. 1820
-365	150:2	930 ± 100			A.D. 1020
-366	150:2	1320 ± 80			A.D. 630
-367	150:2	1660 ± 100			A.D. 290
-368	150:2	4380 ± 120			2430 B.C.
-369	150:2	5500 ± 120			3550 B.C.
-370	150:2	6410 ± 150			4460 B.C.
-371	150:2	6820 ± 150			4870 B.C.
-373	150:3	8000 ± 120			6050 B.C.
-379	119:308	1610 ± 100			A.D. 340
-380	119:309	2280 ± 120			330 B.C.
-381	119:309	1400 ± 80			A.D. 550
-381/1	119:309	1650 ± 80			A.D. 300
-382	119:309	3340 ± 120			1390 B.C.
-384	119:309	2840 ± 80			890 B.C.
-392/2	119:309	1190 ± 100			A.D. 760
-392/4	119:309	1260 ± 120			A.D. 690
-395A	119:309	8320 ± 120			6370 B.C.
-395B	119:309	8570 ± 130			6620 B.C.
-395C	119:310	8470 ± 150			6520 B.C.
-397	119:310	1460 ± 100			A.D. 490
-398	150:5	12,690 ± 240			10,740 B.C.
-405	119:310	4100 ± 100			2150 B.C.
-406	119:310	5410 ± 100			3460 B.C.
-407	119:310	6490 ± 100			4540 B.C.

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-408	119:310	1310 ± 80			A.D. 640
-409	119:310	1830 ± 80			A.D. 120
-410	119:310	2730 ± 130			780 B.C.
-411	119:311	4000 ± 80			2050 B.C.
-412	119:311	7160 ± 110			5210 B.C.
-413	119:311	3520 ± 120			1570 B.C.
-414	119:311	6380 ± 120			4430 B.C.
-415	150:3	3120 ± 120			1170 B.C.
-416	150:3	8020 ± 160			6070 B.C.
-417	150:3	8030 ± 150			6080 B.C.
-418	150:3	4800 ± 120			2850 B.C.
-419	150:3	6570 ± 120			4620 B.C.
-420	150:3	7890 ± 160			5940 B.C.
-421	150:3	8950 ± 200			7000 B.C.
-422	150:3	8900 ± 200			6950 B.C.
-446	150:4	1110 ± 100			A.D. 840
-448	150:4	1020 ± 100			A.D. 930
-449	150:4	840 ± 100			A.D. 1110
-450	150:4	930 ± 100	Bolivia <sup>4</sup>		A.D. 1020
-452	150:4	4880 ± 100			2930 B.C.
-453	150:4	1960 ± 120			10 B.C.
-457	150:5	>45,000			
-471	150:5	4500 ± 120			2550 B.C.
-472	150:2	7360 ± 160			5410 B.C.
-473a	150:5	8530 ± 150			6580 B.C.
-473b	150:5	7380 ± 150			5430 B.C.
-477	150:6	1470 ± 100			A.D. 480
-478	150:6	1190 ± 100			A.D. 760
-479	150:6	1690 ± 100			A.D. 260
-480	150:6	980 ± 100			A.D. 970
-481	150:6	1310 ± 100			A.D. 640
-483	150:6	4650 ± 130			2700 B.C.
-484	150:6	3180 ± 130			1230 B.C.
-485	150:6	670 ± 100			A.D. 1280
-486	150:6	2640 ± 130			690 B.C.
-487	150:6	>40,000			
-488	150:7	2400 ± 200			450 B.C.
-489	150:7	2530 ± 200			580 B.C.
-490	150:7	2100 ± 200			150 B.C.
-509	150:3	8550 ± 300			6600 B.C.
-510	150:3	9800 ± 250			7850 B.C.
-511	150:4	4100 ± 200			2150 B.C.
-514	150:7	5760 ± 120			3810 B.C.
-526	150:8	5570 ± 100			3620 B.C.
-527	150:8	7220 ± 120			5270 B.C.
-528	150:8	9830 ± 150			7880 B.C.
-549	150:8	3550 ± 200			1600 B.C.
-550	150:8	1890 ± 100	Jura <sup>4</sup>		A.D. 60
-551	150:8	5750 ± 200			3800 B.C.

<sup>1</sup> Reference standard before 1959 was various wood samples, not significantly different from 0.95 NBS oxalic acid. Corrections (a) are therefore to standard errors, not to dates.

<sup>2</sup> Published by error as B-290, which is a different sample from higher up in the same bog profile.

<sup>3</sup> Bone samples containing secondary carbonates, which were removed as far as possible, but some contamination may remain.

<sup>4</sup> Two samples, with same number B-550.