

Online Resource 2

Results of radiocarbon AMS and ^{210}Pb dating

	Samples (lab. code)	Depth (cm)	^{14}C age (uncal BP)	Calibrated ^{14}C age (cal BC/AD) (95,4% c.i.)	Mean calibrated age	Material
MS15	UG-13654	38-40	280±30	AD 1523-1660	1592 AD	seeds
	UG-12666	28-30	240±25	AD 1647-1795	1706 AD	seeds
MS3	UG-7744	34 – 32	610 ± 25	1297 AD – 1402 AD	1347 AD	seeds
	UG-7743*	14 – 12	170 ± 20	1665 AD – 1919 AD	1786 AD	seeds
MS 4	UG-7747	35 – 33	560 ± 25	1311 AD – 1425 AD	1369 AD	seeds, charcoal
	UG-7746*	17 – 15	120 ± 25	1680 AD – 1939 AD	1815 AD	seeds

Results of radiocarbon AMS dating of the MS3, MS4 and MS15 profiles. Abbreviations: uncal. BP = uncalibrated years Before Present (1950); BC = Before Christ; AD = Anno Domini. *UG-7743 and *UG-7746 were excluded from the depth age model because the same layers were more precisely dated with ^{210}Pb .

	ID	Depth (cm)	^{210}Pb [Bq/kg]	Age (AD)	Uncertainty Age
MS 15	Pb8	0-2	33,412	2011	3,5
	Pb7	2-4	25,591	2009	3,5
	Pb6	4-6	21,059	2001	3,9
	Pb5	6-8	20,160	1991	4,3
	Pb4	8-10	19,773	1978	5,4
	Pb3	10-12	19,154	1962	7,0
	Pb2	12-14	14,932	1937	9,5
	Pb1	14-16	11,319	1907	10,2
MS 3	Pb16	modern	202	2009	4
	Pb15	5-6	180	2006	4
	Pb14	6-7	188	2001	4
	Pb13	7-8	164	1996	4
	Pb12	8-9	117,8	1989	4
	Pb11	9-10	97,69	1985	5
	Pb10	11-12	88	1976	5
	Pb9	13-14	62,88	1966	6
	Pb8	15-16	58	1959	6
	Pb7	16-17	65,03	1955	7
	Pb6	18-19	59	1942	7
Pb5	19-20	48,21	1934	8	

	ID	Depth (cm)	^{210}Pb [Bq/kg]	Age (AD)	Uncertainty Age
	Pb3	22-23	41,11	1899	12
	Pb2	24-25	33	1872	15
	Pb1	26-27	34	1840	18
MS	Pb19	modern	188	2006	4
4	Pb18	6-7	105	2001	4
	Pb17	7-8	79	1994	4
	Pb16	8-9	62	1989	4
	Pb15	9-10	51	1985	5
	Pb14	10-11	49	1982	5
	Pb13	11-12	42	1979	5
	Pb12	12-13	44	1977	5
	Pb11	13-14	41	1974	5
	Pb10	14-15	49	1972	5
	Pb9	16-17	45	1964	7
	Pb8	17-18	39	1959	7
	Pb7	18-19	50	1956	7
	Pb6	20-21	38	1942	7
	Pb5	22-23	39	1930	9
	Pb4	23-24	34	1921	10
	Pb3	24-25	36	1915	10
	Pb2	26-27	36	1889	14
	Pb1	27-28	33	1859	17

Results of ^{210}Pb dating of the MS3, MS4 and MS15 profiles.