Lab. Name	Dating lab code	IPE-CSIC/ UH code	Dating method	Depth (cm)	Age (uncal. years BP)	Error	Age (cal. years BP)
ECRC -UCL	BAL0	BAL0	^{210}Pb-^{137}Cs	0	-67	1	
	BAL1.5	BAL1.5		1,5	-64	2	Not needed
	BAL4.5	BAL4.5		4,5	-47	2	
	BAL6.5	BAL6.5		6	-26	3	
	BAL7.5	BAL7.5		7	-13	5	
	BAL8.5	BAL8.5		8	-10	5	
	BAL9.5	BAL9.5		9	-8	5	
	BAL10.5	BAL10.5		10	-6	5	
	BAL12.5	BAL12.5		12	-1	5	
	BAL14.5	BAL14.5		14	4	5	
	BAL16.5	BAL16.5		16	8	6	
	BAL18.5	BAL18.5		18	13	6	
	BAL20.5	BAL20.5		20	17	6	
	BAL22.5	BAL22.5		22	21	7	
	BAL24.5	BAL24.5		24	26	7	
	BAL26.5	BAL26.5		26	31	8	
	BAL28.5	BAL28.5		28	34	9	
	BAL31.5	BAL31.5		31	40	10	
	BAL34.5	BAL34.5		34	46	11	
	BAL38.5	BAL38.5		38	56	13	
	BAL42.5	BAL42.5		42	68	14	
	BAL46.5	BAL46.5		46	78	15	
	BAL51.5	BAL51.5		51	94	18	
U.Bern	7931.1.1	GG1B1	^{14}C-BS	105	935	118	662-1081
	8273.1.1	GG1B1A	^{14}C-n-alkane	105	1076	79	892-1180
	8282.1.1	2L15.16	^{14}C-Charcoal	185	2124	129	1779-2366
	7930.1.1	GG1B2	^{14}C-BS	205	2323	111	2110-2722
	8272.1.1	GG1B2A	^{14}C-n-alkane	205	2399	101	2302-2743
	8271.1.1	GG1B3A	^{14}C-n-alkane	303	3476	89	3556-3979
	7929.1.1	GG1B3	^{14}C-BS	303	3517	111	3555-4091
	8270.1.1	GG1B5A	^{14}C-n-alkane	503	5789	109	6391-6804
	7928.1.1	GG1B5	^{14}C-BS	503	5794	135	6305-6903
	8269.1.1	GG1B6A	^{14}C-n-alkane	602	6967	123	7589-8003
	7927.1.1	GG1B6	^{14}C-BS	602	7320	144	7922-8404
	8268.1.1	GG1B7A	^{14}C-n-alkane	700	8267	137	8973-9535
	7926.1.1	GG1B7	^{14}C-BS	700	8753	156	9516-10201
	8279.1.1	7L35.36	^{14}C-Charcoal	705	8753	162	9496-10206
	7925.1.1	GG1B8	^{14}C-BS	794	10214	203	11267-12531
	8267.1.1	GG1B8A	^{14}C-n-alkane	794	9301	273	9740-11235
	8266.1.1	GG1B9A	^{14}C-n-alkane	898	9650	155	10545-11368
	7924.1.1	GG1B9	^{14}C-BS	898	9706	175	10563-11640
Direct AMS	D-AMS 029493	GG1B10	^{14}C-BS	998	11110	48	12828- 13082
	D-AMS 029494	GG1B11		1108	11377	50	13102- 13313
	D-AMS 029495	GG1B12		1218	12181	51	13906-14230
	D-AMS 027899	GG1B15		1493	12977	53	15291-15740
	D-AMS 029496	GG1B15b		1528	12997	57	15304-15772
	D-AMS 029497	GG1B15c		1548	13294	59	15772-16193

ESM Table 1: Dated samples in Garba Guracha using ^{210}Pb-^{137}Cs in core GGU-1A 1B and radiocarbon dating on different materials in core GGU-1B. Ages were calibrated using the INTCAL 13 2σ curve. More information is provided in Bittner et al. ECRC-UCL: Environmental Change Research Centre, Department of Geography, University College London. Ubern: Department of Chemistry and Biochemistry & Oeschger Centre for Climate Change Research, University of Bern; Direct-AMS: Radiocarbon Laboratory - WA 98011 USA. ^{14}C-BS: radiocarbon in bulk sediments; ^{14}C-n-alkane: radiocarbon in n-alkanes.