

Sample ID	Laboratory code	Depth (cm)	Material	¹⁴ C age (years BP)	±	Comments
LS 1	5620.1	112	Bulk sediment	3560	89	outlier
LS 2	5622.1	278	Plant macrofossil	4147	51	
LS 3	LS_343	343	Foliar	5789	38	
LS 4	958.66	400	Foliar	5831	41	
LS 5	5025.1	428	Dreissena sp.	5916	36	
LS 6	957.66	703	Plant macrofossil	5973	38	
LS 7	LS_863	863	Plant macrofossil	5943	37	outlier
LS 8	5026.1	988	Plant macrofossil	6305	32	
LS 9	5027.1	1060	Plant macrofossil	6357	30	
Jij 1	Jij_222	222	Foliar	849	21	
Jij 2	Jij_380	380	Bulk sediment	2206	24	outlier
Jij 3	5029.1	450	Foliar	1755	32	
Jij 4	Jij_480	480	Plant macrofossil	902	28	outlier
Jij 5	1085.66	634	Foliar	4644	37	
Jij 6	Jij_786	786	Plant macrofossil	4683	26	
Jij 7	1086.66	872	Wood fragment	3715	36	outlier
Jij 8	5623.1	1263	Bulk sediment	3635	45	outlier
Jij 9	Jij_1345	1345	Plant macrofossil	5703	30	
Jij10	Jij_1625	1625	Plant macrofossil	7488	31	outlier
Jij 11	1089.66	1749	Foliar	6635	41	
Bra_62*	946.66	168	Plant macrofossil	2452	37	
Bra_60*	GdA-5544	265	Peat	4590	35	
Bra_65*	GdA-5545	440	Wood fragment	5650	30	
Bra_68*	GdA-5545	692	Wood fragment	7060	40	
Bra_69*	947.66	782	Organic remains	6660	158	outlier
BP 1	1274.66	246	Peat	952	28	
BP 2	5691.1	292	Peat	4352	40	outlier
BP 3	5692.1	393	Peat	5670	41	
BP 4	BP_441	441	Organic remains	4587	31	outlier
BP 5	951.66	650	Organic remains	5925	51	
BP 6	BP_939	939	Plant macrofossil	6643	46	
BP 7	950.66	1195	Plant macrofossil	6999	56	
BP 8	948.66	1740	Plant macrofossil	7243	63	
LC 1	5337.1	188	Organic remains	3272	31	
LC 2	LC_254	254	Plant macrofossil	3635	37	
LC 3	5328.1	340	Plant macrofossil	3960	34	
LC 4	5329.1	374	Organic remains	3980	27	
LC 5	955.66	397	Organic remains	4835	47	outlier
LC 6	5338.1	453	Plant macrofossil	4476	34	
LC 7	1275.66	630	Organic remains	2046	32	outlier
LC 8	954.66	886	Foliar	6573	71	
LC 9	953.66	1147	Organic remains	6597	48	
LC 10	LC_1345	1345	Organic remains	7142	51	
LC 11	5333.1	1366	Foliar	7364	38	
LC 12	952.66	1397	Peat	7744	52	
Pa_106#	495.66	270	Peat	1553	27	

Pa_8#	491.66	365	Peat	2593	27	
Pa_102#	492.66	525	Wood fragment	4934	46	
Pa_105#	508.66	920	Snail (<i>Lithoglipus</i> sp.)	5749	43	
Smv 1 α	486.65	440	Peat	2477	37	
Smv 2 α	486.66	582	Peat	4526	30	
Smv 3 α	488.67	738	Plant macrofossil	6021	33	outlier
Smv 4 α	44359	794	Plant macrofossil	5884	22	
Smv 5 α	44356	837	Plant macrofossil	5887	26	
Smv 6 α	5066.1	870	Plant macrofossil	7577	52	outlier
Smv 7 α	5067.1	1025	Plant macrofossil	5025	33	outlier
Smv 8 α	5064.1	1470	Plant macrofossil	6500	32	
Smv 9 α	5068.1	1546	Plant macrofossil	6233	33	outlier
Sir_116 μ	1216.66	116	Peat	1558	35	
Sir_146 μ	5014.66	146	Foliar	2201	32	
Sir_238 μ	1543.66	238	Foliar	3139	32	
Sir_423 μ	1073.66	423	Foliar	4711	38	
Sir_599 μ	1074.66	599	Foliar	6735	44	
Sir_761 μ	1077.66	761	Foliar	7254	41	

Table 1. Radiocarbon dates from LDF. The ages marked with different symbols were previously published (α Hanganu et al., 2023; μ Preoteasa et al., 2021; # Tuțuianu et al., 2021; and * 2018). Comments indicate whether the ^{14}C age was treated as outlier.

The outliers:

LS 1 – this age is too old for such depth (3855 cal. BP at 112 cm depth). Bulk sediment may integrate reworked/older organic carbon.

LS 7 – Age–depth inconsistency with the surrounding chronology; the age is slightly younger than the overlying LS6 sample.

Jij 2 – Bulk-sediment age inconsistent with the surrounding plant-derived chronology, suggesting incorporation of reworked/old organic carbon.

Jij 4 – Strong age–depth inversion; substantially younger than the overlying Jij3 sample despite its greater depth.

Jij 7 – Age–depth inversion; substantially younger than the overlying Jij 6 sample.

Jij 8 – Age–depth inversion; substantially younger than the context.

Jij 10 – Age inconsistent with the adjacent chronology, being substantially older than Jij9 but younger than the deeper Jij11 sample; may reflect reworked older material.

BRA_69 – Age–depth inversion with the underlying chronology; younger than the shallower Bra68 sample, and considering the very small quantity of material, which hampered the dating procedures, we deemed it an outlier.

BP2 – Inconsistent with the local age–depth relationship, particularly the much younger age obtained from the shallower BP1 sample.

BP4 – Strong age–depth inversion; substantially younger than the immediately overlying BP3 sample despite greater depth.

LC5 – Age–depth inversion; older than both the overlying LC4 and underlying LC6 samples.

LC7 – Strong age–depth inversion; substantially younger than both the overlying LC6 and underlying LC8 samples.

Bab3 – Age–depth inversion with the deeper Bab4–Bab5 sequence; older than samples deposited below it.

Bab6 – Age–depth inconsistency with the adjacent Bab5 and Bab7 samples; substantially older than expected from the surrounding chronology. This two (Bab 3 and 6 probably reflects large floods which are also recorded in the core stratigraphy of the paleochannel environment (see also Hanganu D., 2023)

Bab7 – Strong age–depth inversion; substantially younger than both the overlying Bab6 and underlying Bab8 samples.

Bab9 – Age–depth inversion; younger than the shallower Bab8 sample.

The age–depth models (ADMs) used for each core are presented below:















