



October 8, 2020

Bierly

PSUAMS#	Sample ID	Description	Material	fraction Modern	±	D ¹⁴ C (‰)	±	¹⁴ C age (BP)	±
8081	AB12	A. Modern O horizon sampled basal 0.1 foot of horizon. Trying to answer when this soil began to develop.	humates	0.8583116	0.0015516	-141.688	1.5516	1225	15
8082	AB13	B. Outcrop sample from peat approx. 32 ft below ground surface	organics	0.0052349	0.0008382	-994.765	0.8382	42190	1290
8083	AB14	C. Core sample from peat from 32 ft below ground Core ID LAW073_2360	organics	0.0052883	0.0008411	-994.712	0.8411	42110	1280
8084	AB15	D. Composite collection of root material from 37.80 ft to 39.22 ft below ground surface. Core ID LAW073_2360	organics	0.0089749	0.0020157	-991.025	2.0157	>36070	
8085	AB16	E. Varve deposit at 101.5 ft below ground surface. Core ID LAW073_2360	humates	0.0006848	0.0008374	-999.315	0.8374	>48800	

Radiocarbon concentrations are given as fractions of the Modern standard, D¹⁴C, and conventional radiocarbon age, following the conventions of Stuiver and Polach (Radiocarbon, v. 19, p.355, 1977).

Sample preparation backgrounds have been subtracted based on measurements of ¹⁴C-free wood.

All results have been corrected for isotopic fractionation according to the conventions of Stuiver and Polach (1977), with δ¹³C values measured on prepared graphite using the AMS. These can differ from δ¹³C of the original material, if fractionation occurred during sample graphitization or the AMS measurement, and are not shown.

Comment: AB15 was very small (0.05mg C), which leads to larger error.
AB16 is indistinguishable from the process background and is not given a finite age.

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