

Supplementary Figures and Tables

Table A1. Burial Lake chironomid $\delta^{18}\text{O}$ values corresponding to interpolated calibrated age and depth in lake core.

Total lake depth (cm)	Age (cal a BP)	$\delta^{18}\text{O}$ (per mil vs. VSMOW)
18	2485	7.22
24	2816	6.07
29	3093	5.44
35	3424	4.10
42	3811	4.22
47	4088	3.77
55	4530	5.42
61	4861	4.75
67	5193	5.76
73	5524	5.13
79	5856	4.41
85	6188	4.75
90	6464	3.93
96	6796	5.36
108	7459	6.71
127	8509	7.19
134	8896	6.30
140	9227	6.40
146	9559	7.22
153	9946	7.40
159	10277	11.77
166	10664	11.52
173	11051	12.14
179	11383	10.72
185	11714	9.59
191	12046	13.45
206	12875	10.68
212	13206	10.22
219	13593	11.79
228	14091	11.52
235	14478	9.42
242	14864	8.70
248	15196	6.64
255	15583	9.11
262	15970	6.16
268.5	16329	7.36
275	16688	7.10
281	17020	6.51
288	17407	6.55
295	17793	7.50

372	22049	9.70
379	22436	7.32
385	22767	9.33
404	23817	6.94
410	24149	9.86
417.75	24577	8.54
425	24978	9.79
431	25310	8.94
437.5	25669	9.64
443	25973	11.96
449.25	26318	9.42

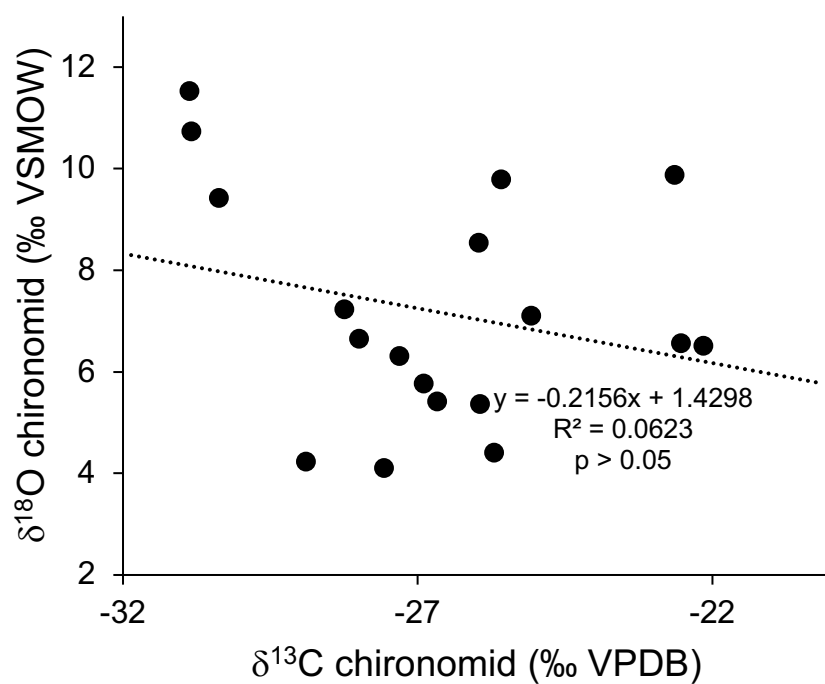


Figure A.1. Relationship between measured $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ in chironomid samples from Burial Lake.