

Supplementary Material

Panyushkina, I.P., Leavitt, S.W., Mode, W.N., 2017. A 1400-yr Bølling-Allerød tree-ring record from the U.S. Great Lakes region. *Tree-Ring Research* 73(2):102-112.

This appendix contains supplementary materials cited in the main text of the manuscript. Figure S1 and Table S2 illustrate a possible overlap between Cluster 1 and Cluster 2.

Table S1. Radiocarbon dates of subfossil wood included into the Bølling-Allerød tree-ring record of Great Lakes. Large number of dates for cluster 2 results from ^{14}C wiggle series used to root the floating chronology in the calendar time.

Site ID	^{14}C Lab #	^{14}C Age BP	Error	Calibrated Age 2-sigma, cal BP	Total dates number
Cluster 1					3
GB	Yale	11940	300	13310-14400	1
PF	AA102240	12282	74	14060-14380	1
JD	A-79A	12150	80	13920-14140	1
Cluster 2					40
JF	Beta-166075	12070	60	13810-14000	2
	Beta-166076	11930	60	13700-13830	
ND	ISGS-666	11640	80	13400-14560	2
	ISGS-660	11630	80	13390-13670	
DC	AA70117	11543	72	13320-13560	1
TC	A5550	11750	90	13470-13630	30
	A5551	11800	160	13450-13780	
	A5552	11640	160	13290-13610	
	AA62039	11536	73	13310-13440	
	AA56927	11900	110	13560-13840	
	AA56936	11458	57	13240-13380	
	AA56938	11559	97	13290-13470	
	AA56939	11470	91	13230-13420	
	AA56941	11618	63	13380-13490	
	AA67770	11854	75	13590-13740	
	AA67754	11778	69	13550-13720	
	AA67756	11748	75	13470-13620	
	AA67760	11651	67	13430-13550	
	AA67762	11636	67	13410-13550	
	AA67767	11746	68	13470-13610	
	AA67772	11795	67	13560-13720	
	AA67775	11675	74	13430-13570	

	AA62032	11445	63	13210-13370	
	AA69236	11860	63	13600-13740	
	AA69237	11689	89	13420-13600	
	AA69238	11420	59	13180-13320	
	AA69239	11670	89	13410-13580	
	AA69240	11909	73	13590-13790	
	AA69241	11898	71	13600-13770	
	AA69244	11567	73	13320-13460	
	AA70111	12060	110	13770-14040	
	AA70114	11919	71	13600-13810	
	AA70118	11758	86	13480-13630	
	AA70119	11690	91	13410-13600	
	AA70120	11580	55	13350-13460	
WF	L-698C	11840	100	13560-13760	2
	L-607A	11850	100	13560-13760	
AH	AA65911	11543	72	13310 - 13440	3
	AA62030	11424	63	13180-13330	
	AA62036	11347	69	13130 - 13260	
Cluster 3					3
LB	AA105150	11322	56	13080-13280	2
	AA94455	11234	59	13050-13150	
OC	AA94454	11262	58	13070-13170	1

Table S2. Cofecha program calculation of correlation between series of tentative test-overlap for Cluster 1 and Cluster 2. Correlation of 50-year dated segments lagged at 25-year mid point is significant at 0.33. The correlation is shown only for selected tree-ring series for the interval from 325 to 650 of the BA chronology. Series inter-correlation is 0.53. Overlap from 5 trees (6 series) is 23 years only from 325 to 649.

Num.	Series ID	Span	325-	350-	375-	400-	425-	450-	475-	500-	525-	550-	575-	600-
			374	399	424	449	474	499	524	549	574	599	624	649
Cluster 1														
1	TCJD3	293-510	.34	.35	.35	.37	.46	.64	.58					
2	TCJD1A	334-501	.80	.78	.74	.65	.67	.67	.68					
3	TCJD1B	334-498	.79	.78	.73	.66	.70	.63						
4	TCJD8B	363-499		.45	.57	.39	.36	.64						
5	TCJD4	382-498			.41	.40	.36	.53						
6	TCJD7	394-500			.37	.40	.44	.40	.41					
7	TCJD2	403-503				.50	.43	.48	.48					
Cluster 2														
8	JFIP2A	488-660						.77	.75	.65	.64	.59	.41	
9	JFIP2B	490-647						.60	.60	.69	.69	.55	.38	
10	JFIP1A	525-578								.43	.44			
11	JFIP1B	533-603								.42	.44	.44		

Figure S1. Tree-ring width series of the tentative overlap between Cluster 1 (red) and Cluster 2 (blue) for the BA chronology interval from 480-550. See correlations of the time series in Table S2.

