

Supplementary Material for

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Supplementary Table 1. (cont.) List of samples in the modern oak chronology (AD 912-2004) and their tree-ring dates, radiocarbon dates, and correlations with the master chronology.

Date (AD)					Correlations by segment*										
ID	Tree Ring		<sup>14</sup> C†		1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
	Inner	Outer	Lower	Upper											
142	MED238b	1527	1613	1453	1644					0.58					
143	MED281b	1578	1668	1284	1410					0.53					
144	MED281c	1578	1667	1284	1410					0.52					
145	LCT068a	1535	1789	na						0.63	0.61	0.49	0.41	0.37	
146	LCT068b	1534	1803	na						0.61	0.58	0.58	0.54	0.41	0.42
147	MED239a	1513	1674	1635	1898					0.41	0.47	0.46			
148	MED239c	1511	1676	1635	1898					0.47	0.47	0.47			
149	MED386a	1519	1632	1296	1443					0.63	0.67	0.47			
150	MED406a	1514	1614	na						0.63	0.63				
151	MED406b	1515	1613	na						0.58					
152	MED351a	1514	1621	na						0.57	0.58				
153	MED351b	1512	1610	na						0.57					
154	WLD417a	1500	1596	1448	1668					0.56					
155	WLD417c	1514	1594	1448	1668					0.46					
156	MED394a	1490	1604	1279	1417					0.54	0.51	0.49			
157	LMD007a	1505	1592	na						0.66					
158	LMD007b	1503	1592	na						0.68					
159	LMD070b	1497	1599	na						0.44	0.46				
160	LMD070c	1498	1602	na						0.55	0.55	0.55			
161	WLD010a	1479	1655	na						0.56	0.64	0.56	0.57		
162	WLD010b	1479	1655	na						0.63	0.69	0.62	0.64		
163	WLD033a	1475	1595	1487	1695					0.50	0.49				
164	WLD033b	1475	1596	1487	1695					0.53	0.55				
165	MED394a	1490	1604	1279	1417					0.54	0.51	0.49			
166	MED394b	1494	1608	1279	1417					0.51	0.50	0.47			
167	MED304a	1489	1613	1398	1524					0.56	0.56	0.56			
168	MED304b	1488	1595	1398	1524					0.62	0.63				
169	LMD009a	1487	1585	1635	1898					0.70					
170	LMD009b	1487	1585	1635	1898					0.76					
171	LCT080a	1480	1630	na						0.49	0.49	0.49			
172	LCT080b	1479	1629	na						0.47	0.49	0.51			
173	TMP165a	1451	1697	na						0.52	0.74	0.60	0.42		
174	TMP165c	1484	1698	na						0.57	0.60	0.50	0.42		
175	MED507a	1440	1650	na						0.41	0.44	0.64	0.59	0.59	
176	MED507b	1440	1601	na						0.32	0.37	0.60	0.60		
177	WLD421a	1437	1602	1458	1684					0.58	0.61	0.74	0.73		
178	WLD421b	1437	1601	1458	1684					0.48	0.49	0.75	0.76		
179	WLD416a	1430	1611	1448	1665					0.61	0.58	0.57	0.53		
180	WLD416b	1430	1614	1448	1665					0.60	0.58	0.63	0.55		
181	LCT065a	1408	1653	na						0.60	0.64	0.68	0.74	0.75	
182	LCT065b	1408	1662	na						0.47	0.55	0.60	0.54	0.57	
183	MED241a	1400	1536	na						0.55	0.64				
184	MED241b	1400	1538	na						0.55	0.58				
185	MED237a	1396	1547	1450	1680					0.53	0.55	0.63			
186	MED237b	1396	1554	1450	1680					0.53	0.55	0.50	0.46		
187	MED201a	1419	1532	1850						0.54	0.52				
188	MED201b	1419	1532	1850						0.42	0.55				
189	WLD036b	1401	1496	1459	1692					0.54					
190	WLD036c	1402	1497	1459	1692					0.73					
191	TMP074a	1371	1521	1449	1639					0.43	0.39	0.48			
192	TMP074b	1371	1513	1449	1639					0.47	0.42	0.51			
193	MED343a	1355	1495	1720	1819					0.49	0.50				
194	MED343b	1361	1494	1720	1819					0.46	0.55				
195	MED506a	1347	1566	na						0.56	0.59	0.63	0.45	0.47	
196	MED506c	1334	1563	na						0.48	0.50	0.60	0.49	0.55	
197	LMD072a	1333	1481	na						0.46	0.59	0.56			
198	LMD072b	1334	1488	na						0.56	0.57	0.57			
199	TMP199a	1324	1490	na						0.39	0.36	0.53			
200	TMP199b	1324	1496	na						0.49	0.47	0.53			
201	WLD064a	1297	1451	1384	1520					0.44	0.42	0.46	0.45		
202	WLD064b	1297	1439	1384	1520					0.50	0.47	0.50			
203	WLD021a	1305	1448	1373	1448					0.49	0.37				
204	WLD021b	1305	1448	1373	1448					0.57	0.56	0.57			
205	WLD017a	1308	1451	1388	1506					0.58	0.53	0.55			
206	WLD017b	1314	1449	1388	1506					0.53	0.54				
207	MED407a	1319	1449	1454	1648					0.47	0.46				
208	MED407b	1319	1447	1454	1648					0.54	0.57				

Date (AD)					Correlations by segment*											
ID	Tree Ring		<sup>14</sup> C†		900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
	Inner	Outer	Lower	Upper												
209	MED502a	1292	1400	na									0.57	0.57	0.57	
210	MED502b	1292	1416	na									0.53	0.52	0.51	
211	WLD049a	1228	1431	1392	1521								0.53	0.62	0.50	0.32
212	WLD014a	1305	1431	na										0.51	0.46	
213	WLD014b	1308	1431	na										0.46	0.42	
214	TMP082a	1187	1298	na									0.67	0.62		
215	TMP082b	1187	1302	na									0.57	0.55	0.55	
216	WLD049d	1241	1432	1392	1521								0.63	0.63	0.57	0.45
217	WLD035a	1267	1424	1293	1421								0.50	0.49	0.52	
218	WLD035b	1272	1426	1293	1421								0.57	0.56	0.53	
219	WLD034b	1333	1454	1448	1639								0.56	0.53	0.51	
220	MED242d	1172	1437	1388	1523								0.35	0.27	0.41	0.54
221	MED387a	1281	1524	1150	1298								0.41	0.41	0.36	0.43
222	MED387b	1281	1522	1150	1298								0.52	0.57	0.48	0.51
223	WLD074a	1275	1358	1296	1443								0.52			
224	WLD074b	1279	1358	1296	1443								0.56			
225	TMP200a	1248	1348	na									0.37	0.34		
226	TMP200b	1248	1359	na									0.44	0.46	0.44	
227	TMP191a	1233	1440	1385	1463								0.27	0.36	0.49	0.55
228	TMP191b	1238	1440	1385	1463								0.37	0.41	0.54	0.54
229	WLD009a	1221	1364	1284	1424								0.57	0.62	0.57	
230	WLD009b	1221	1364	1284	1424								0.56	0.53	0.50	
231	LCT085a	1212	1339	na									0.36	0.48		
232	WLD072a	1136	1342	1274	1402								0.44	0.44	0.54	0.68
233	WLD072c	1136	1342	1274	1402								0.49	0.50	0.58	0.71
234	WLD056a	1114	1320	1278	1405								0.42	0.53	0.47	0.46
235	WLD056b	1114	1321	1278	1405								0.55	0.56	0.54	0.59
236	TMP202a	1089	1308	1154	1287								0.45	0.53	0.47	0.48
237	TMP202b	1089	1310	1154	1287								0.37	0.44	0.42	0.55
238	MED320a	1040	1233	1251	1405								0.54	0.56	0.51	0.52
239	MED320b	1035	1251	1251	1405								0.43	0.43	0.37	0.40
240	WLD097a	1061	1258	1021	1239								0.55	0.52	0.44	0.44
241	WLD097b	1061	1235	1021	1239								0.55	0.47	0.49	
242	WLD039a	1140	1237	1147	1285								0.53			
243	WLD039b	1140	1236	1147	1285								0.60			
244	WLD															