

**Figure S1.** Map of the study region in the Northern Caucasus, Russia and its location on the map of Europe (inset). 22 locations where buildings were sampled are shown with circles, 10 selected locations denoted with red font.



D41A 7 (Samples ##26, 27)



D41A 2 (Sample #1 LSC)



D41A 4 (Sample #2 LSC)

**Figure S2.** Location of the sampled timber.



D41A 5 (Sample #3 LSC)



D42A 10 (Samples ##9, 10, 18)



D42A 11 (Sample #28)

**Figure S2 (continued).**



D47A 8 (Sample #29)



D48A 3 (Samples ##30, 31)



D50A 3 (Samples ##11, 12)  
**Figure S2 (continued).**



D50A 6 (Sample #13)



D54A 4 (Sample #14)  
Figure S2 (continued).





D54A 2 (Samples ##15, 17)



D54A 7 (Samples ##16, 32)



D65A 9 (Samples ##33, 34)  
Figure S2 (*continued*).



D66A 5 (Samples ##21, 22)



D71A 5 (Samples ##23, 24)



D71A 7 (Sample #25)  
**Figure S2 (continued).**

Figure S3. Results of wiggle-matching, table view and multiple plot view from OxCal program.

a) D41A Turov Tower

Name	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				Select	Page break	
	from	to	%	$\mu$	$\sigma$	m	from	to	%	$\mu$	$\sigma$	m	A <sub>comb</sub>	A	L	P			C
▼ D41A Turov Tower	1641	1669	95.4	1654	14	1656							121					<input checked="" type="checkbox"/> 2	<input type="checkbox"/>
#26 (350,20)	1462	1635	95.4	1551	52	1561	1597	1625	95.4	1610	14	1612		117.3				<input checked="" type="checkbox"/> 3	<input type="checkbox"/>
#27 (240,20)	1641	1948	95.4	1700	72	1660	1641	1669	95.4	1654	14	1656		111.6				<input checked="" type="checkbox"/> 4	<input type="checkbox"/>
Warning! Date may extend out of range - 240+/-20BP																			

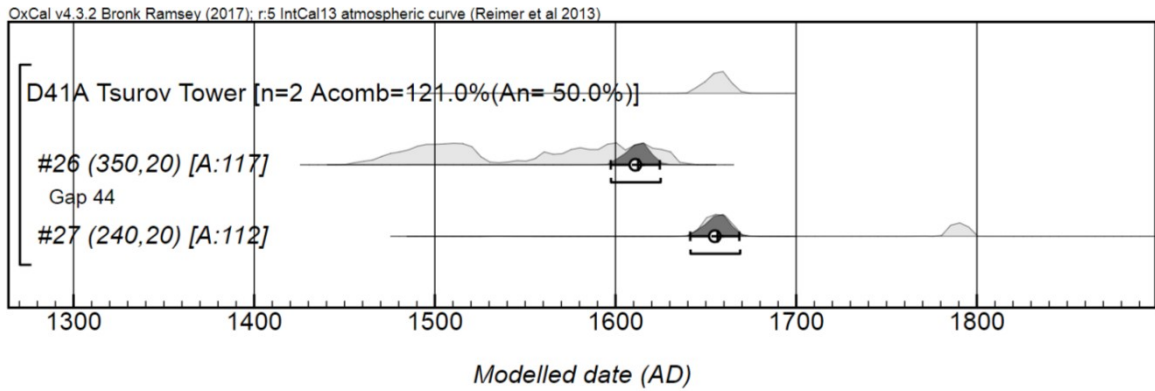




Figure S3 (continued).  
b) D42A Byalgan Tower

Name	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				Select	Page break
	from	to	%	$\mu$	$\sigma$	m	from	to	%	$\mu$	$\sigma$	m	A <sub>comb</sub>	A	L	P		
Show all Show structure	Warning! ZERO distribution																All Visible	
▼ D42A Byalgan	Warning! Not calculating range - D42A Byalgan Warning! Not calculating range - D42A Byalgan Warning! Not calculating range - D42A Byalgan																<input checked="" type="checkbox"/> 2	<input type="checkbox"/>
#9 (977,23)	1015	1154	95.4	1073	44	1069	Warning! Not calculating range - #9 Warning! Not calculating range - #9 Warning! Not calculating range - #9 Warning! Poor agreement - A= 0.0%(A'c= 60.0%)										<input checked="" type="checkbox"/> 3	<input type="checkbox"/>
#18 (519,22)	1331	1440	95.4	1415	20	1419	Warning! Not calculating range - #18 Warning! Not calculating range - #18 Warning! Not calculating range - #18 Warning! Poor agreement - A= 0.0%(A'c= 60.0%)										<input checked="" type="checkbox"/> 4	<input type="checkbox"/>
#10 (566,24)	1311	1421	95.4	1364	35	1350	Warning! Not calculating range - #10 Warning! Not calculating range - #10 Warning! Not calculating range - #10 Warning! Poor agreement - A= 0.0%(A'c= 60.0%)										<input checked="" type="checkbox"/> 5	<input type="checkbox"/>

OxCal v4.3.2 Bronk Ramsey (2017); r5 IntCal13 atmospheric curve (Reimer et al 2013)

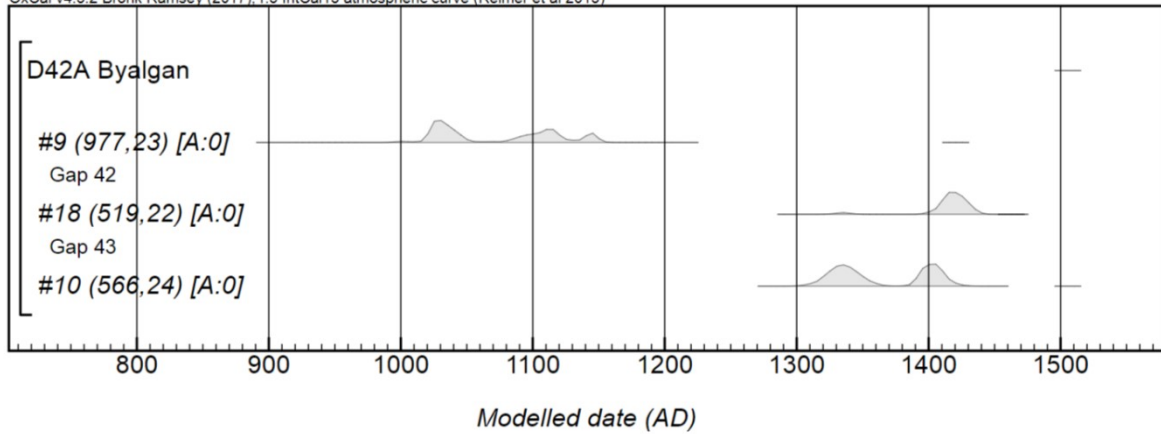


Figure S3 (continued).  
d) D48A Myashkhi crypt

Name	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				Select	Page break	
	from	to	%	$\mu$	$\sigma$	m	from	to	%	$\mu$	$\sigma$	m	A <sub>comb</sub>	A	L	P			C
<a href="#">Show all</a> <a href="#">Show structure</a> ▼ D48A Myashkhi crypt	1732	...	95.4	1781	98	1744							35.7					<input checked="" type="checkbox"/> 2	<input type="checkbox"/>
Warning! X-Test fails at 5% - D48A Myashkhi crypt X2-Test: df=1 T=4.228(5% 3.8) Warning! Poor agreement - n=2 Acomb= 35.7%(An= 50.0%)																			
#30 (240,20)	1641	1948	95.4	1700	72	1660	1646	...	95.4	1695	98	1658		105.8				<input checked="" type="checkbox"/> 3	<input type="checkbox"/>
Warning! Date may extend out of range - 240+/-20BP																			
#31 (220,25)	1644	...	95.4	1752	93	1772	1732	...	95.4	1781	98	1744		22				<input checked="" type="checkbox"/> 4	<input type="checkbox"/>
Warning! Date may extend out of range - 220+/-25BP							Warning! Poor agreement - A= 22.0%(A'c= 60.0%)												

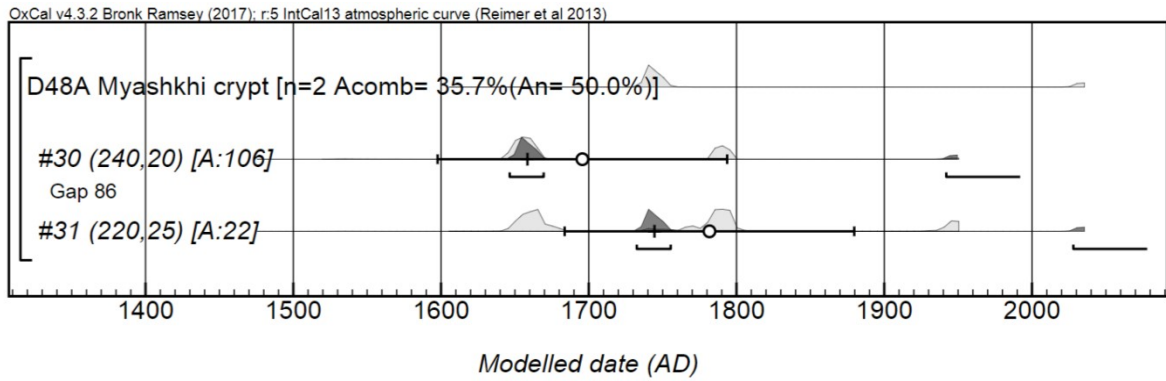


Figure S3 (continued).

e) D50A Thaba-Yerdy Christian Church

Name	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				Select	Page break	
	from	to	%	$\mu$	$\sigma$	m	from	to	%	$\mu$	$\sigma$	m	A <sub>comb</sub>	A	L	P			C
▼ D50A Thaba-Yerdy Christian church	1519	1550	95.4	1535	7	1536							91.1					<input checked="" type="checkbox"/> 2	<input type="checkbox"/>
#12 (485,25)	1411	1447	95.4	1429	10	1430	1409	1440	95.4	1425	7	1426		100.7				<input checked="" type="checkbox"/> 3	<input type="checkbox"/>
#13 (371,24)	1449	1631	95.4	1530	58	1508	1496	1527	95.4	1512	7	1513		87.1				<input checked="" type="checkbox"/> 4	<input type="checkbox"/>
Outer							1519	1550	95.4	1535	7	1536						<input checked="" type="checkbox"/> 5	<input type="checkbox"/>

OxCal v4.3.2 Bronk Ramsey (2017); r:5 IntCal13 atmospheric curve (Reimer et al 2013)

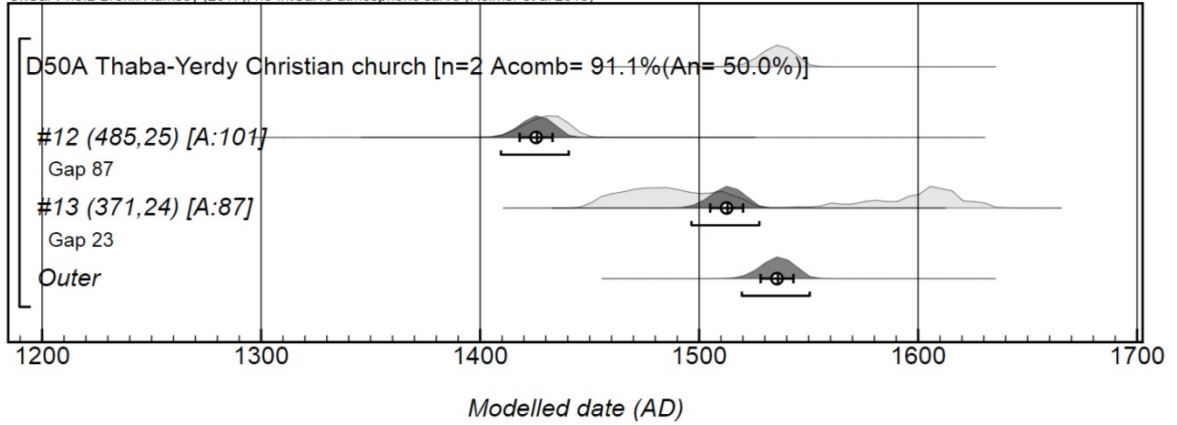


Figure S3 (continued).

f) D53A Tusholi sanctuary, Kog village

Name	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				Select	Page break		
	from	to	%	$\mu$	$\sigma$	m	from	to	%	$\mu$	$\sigma$	m	A <sub>comb</sub>	A	L	P			C	All Visible
▼ D53A Tusholi sanctuary, Kog village	1437	1482	95.4	1454	11	1453							115					<input checked="" type="checkbox"/>	2	<input type="checkbox"/>
#19 (621,22)	1293	1398	95.4	1346	32	1352	1345	1390	95.4	1362	11	1361		112				<input checked="" type="checkbox"/>	3	<input type="checkbox"/>
#20 (422,22)	1433	1607	95.4	1460	28	1454	1437	1482	95.4	1454	11	1453		108.8				<input checked="" type="checkbox"/>	4	<input type="checkbox"/>

OxCal v4.3.2 Bronk Ramsey (2017); r5 IntCal13 atmospheric curve (Reimer et al 2013)

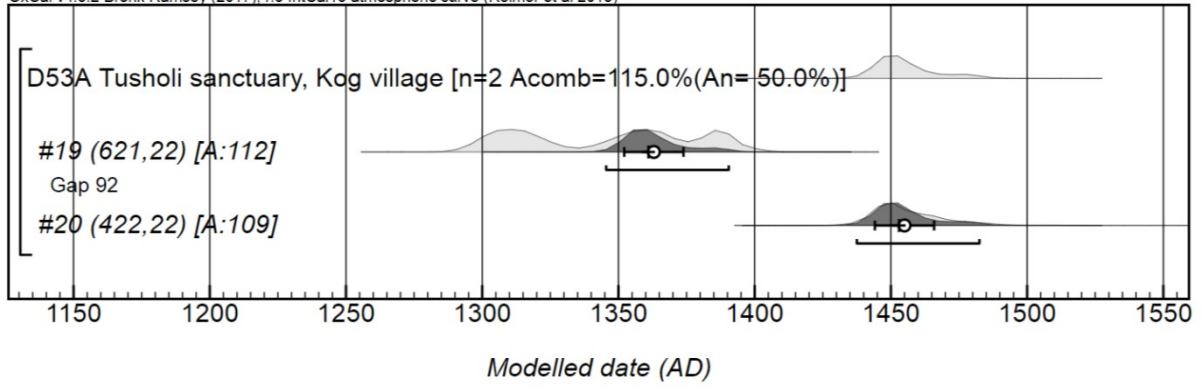


Figure S3 (continued).

g) D54A Albi-Yerdy Christian Church

Name	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				Select	Page break		
	from	to	%	$\mu$	$\sigma$	m	from	to	%	$\mu$	$\sigma$	m	A <sub>comb</sub>	A	L	P			C	All Visible
<a href="#">Show all</a> <a href="#">Show structure</a> ▼ D54A Albi-Yerdy	840	881	95.4	864	11	866							3.9					<input checked="" type="checkbox"/>	2	<input type="checkbox"/>
	Warning! X-Test fails at 5% - D54A Albi-Yerdy X2-Test: df=3 T=15.327(5% 7.8)																			
	Warning! Poor agreement - n=4 Acomb= 3.9%(An= 35.4%)																			
#15 (1197,23)	769	890	95.4	827	39	828	699	740	95.4	723	11	725		12				<input checked="" type="checkbox"/>	3	<input type="checkbox"/>
							Warning! Poor agreement - A= 12.0%(A'c= 60.0%)													
#16 (1145,28)	776	975	95.4	894	55	901	782	823	95.4	806	11	808		45.5				<input checked="" type="checkbox"/>	4	<input type="checkbox"/>
							Warning! Poor agreement - A= 45.5%(A'c= 60.0%)													
#32 (1260,20)	677	775	95.4	730	31	727	833	874	95.4	857	11	859		3.3				<input checked="" type="checkbox"/>	5	<input type="checkbox"/>
							Warning! Poor agreement - A= 3.3%(A'c= 60.0%)													
#17 (1224,22)	695	883	95.4	797	51	801	840	881	95.4	864	11	866		85.6				<input checked="" type="checkbox"/>	6	<input type="checkbox"/>

OxCal v4.3.2 Bronk Ramsey (2017); r5 IntCal13 atmospheric curve (Reimer et al 2013)

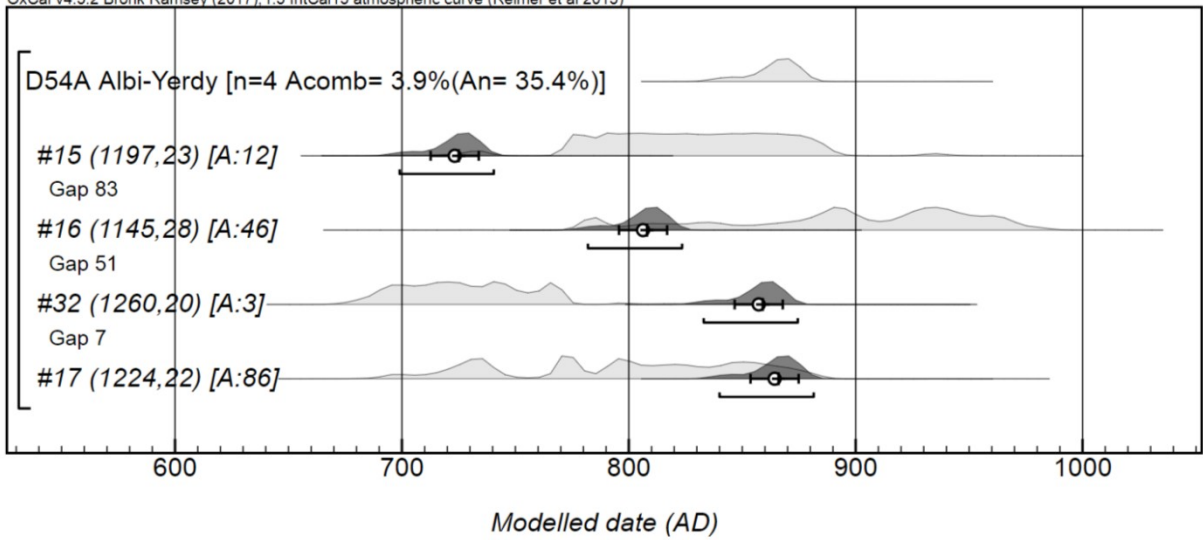


Figure S3 (continued).

h) D65A Semi-battle tower, Khamkhi village

Name	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				Select	Page break		
	from	to	%	$\mu$	$\sigma$	m	from	to	%	$\mu$	$\sigma$	m	A <sub>comb</sub>	A	L	P			C	All Visible
▼ D65A Semi-battle tower, Khamkhi village	1649	1681	95.4	1665	8	1665							102.3					<input checked="" type="checkbox"/>	2	<input type="checkbox"/>
#33 (340,20)	1474	1635	95.4	1559	48	1567	1567	1599	95.4	1583	8	1583		120.2				<input checked="" type="checkbox"/>	3	<input type="checkbox"/>
#34 (210,20)	1648	...	95.3	1770	93	1783	1649	1681	95.4	1665	8	1665		85.9				<input checked="" type="checkbox"/>	4	<input type="checkbox"/>
Warning! Date may extend out of range - 210+/-20BP																				

OxCal v4.3.2 Bronk Ramsey (2017); r:5 IntCal13 atmospheric curve (Reimer et al 2013)

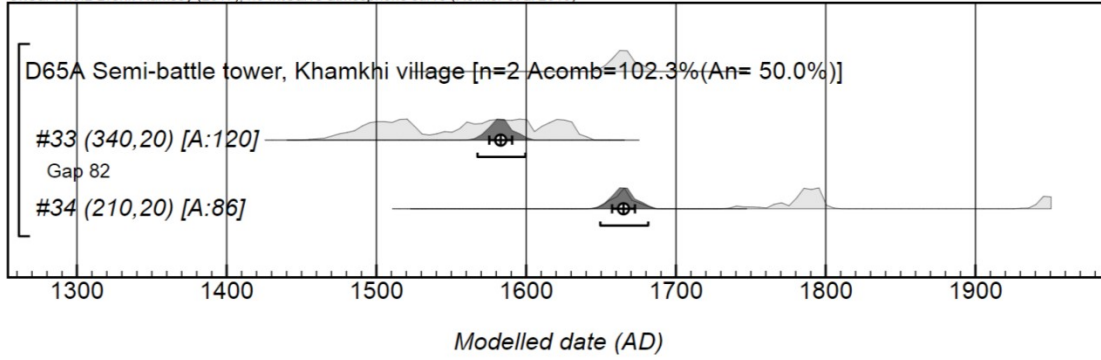


Figure S3 (continued).

i) D66A Crypt near Khamkhi village

Name	Unmodelled (BC/AD)					Modelled (BC/AD)					Indices				Select	Page break	
	from	to	%	$\mu$	$\sigma$ m	from	to	%	$\mu$	$\sigma$ m	A <sub>comb</sub>	A	L	P			C
▼ D66A Crypt near Khamkhi village	1571	1638	95.4	1610	16	1612						115.6				<input checked="" type="checkbox"/> 2	<input type="checkbox"/>
#21 (304,22)	1497	1649	95.4	1571	43	1560	1497	1564	95.4	1536	16	1538		113.1		<input checked="" type="checkbox"/> 3	<input type="checkbox"/>
#22 (346,22)	1466	1635	95.4	1554	51	1563	1571	1638	95.4	1610	16	1612		108.6		<input checked="" type="checkbox"/> 4	<input type="checkbox"/>

OxCal v4.3.2 Bronk Ramsey (2017); r:5 IntCal13 atmospheric curve (Reimer et al 2013)

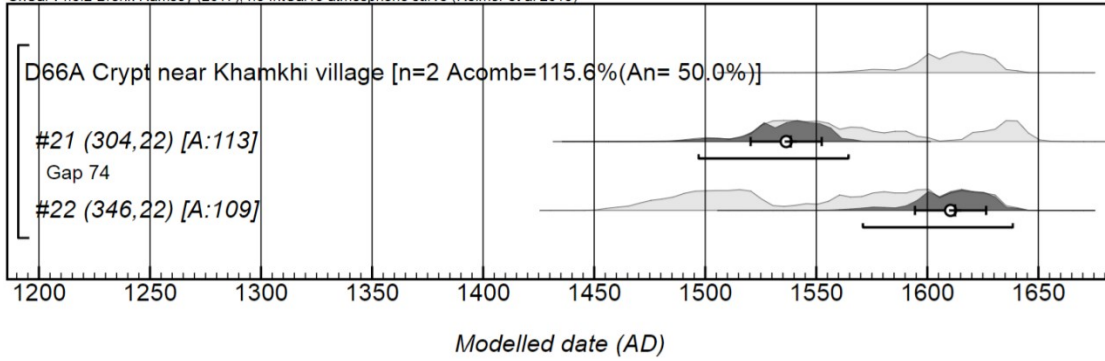


Figure S3 (continued).

j) D71A Tumgoi sanctuary

Name	Unmodelled (BC/AD)					Modelled (BC/AD)					Indices				Select	Page break		
	from	to	%	$\mu$	$\sigma$ m	from	to	%	$\mu$	$\sigma$ m	A <sub>comb</sub>	A	L	P			C	All Visible
▼ D71A Tumgoi sanctuary	1558	1637	95.4	1602	20	1602						112.9					<input checked="" type="checkbox"/> 2	<input type="checkbox"/>
#23 (311,22)	1494	1646	95.4	1568	42	1562	1496	1575	95.4	1540	20	1540					<input checked="" type="checkbox"/> 3	<input type="checkbox"/>
#24 (343,22)	1470	1635	95.4	1556	50	1564	1558	1637	95.4	1602	20	1602					<input checked="" type="checkbox"/> 4	<input type="checkbox"/>

OxCal v4.3.2 Bronk Ramsey (2017); r5 IntCal13 atmospheric curve (Reimer et al 2013)

