

Supplementary material 1

Table S1: Radiocarbon dates from Pungnap Toseong and Baekje fortresses

No.	Site	Dated material	Provenience	Radiocarbon dates		Calibrated date (2σ range)			Lab no.	Reference
				Uncalibrated bp	Error range	From	To	Median		
1	Pungnap Toseong	Charred wood	Pithouse (#GA-2)	2190	50	-386	-103	-257	KCP 288	NRICH, 2001
2	Pungnap Toseong	Charred wood	Pithouse (#NA-8)	2180	60	-385	-55	-237	KCP 295	NRICH, 2001
3	Pungnap Toseong	Charred wood	Pithouse (#NA-3)	2150	50	-361	-48	-187	KCP 293	NRICH, 2001
4	Pungnap Toseong	Charred wood	Pithouse (#GA-6)	2070	80	-357	123	-85	SNU 07-167	NRICH, 2009
5	Pungnap Toseong	Charred wood	Earthen wall (Deposit V, Area A)	2050	50	-195	109	-51	KCP 401	NRICH, 2002
6	Pungnap Toseong	Charred wood	Pithouse (#NA-1)	2030	60	-197	126	-24	KCP 292	NRICH, 2001
7	Pungnap Toseong	Charred wood	Pithouse wall (#NA-19)	2035	29	-149	64	-23	SNU11-R090, SNU11-R091	NRICH, 2013
8	Pungnap Toseong	Charred wood	Pithouse (#LA-19)	2022	25	-94	65	-11	SNU11-R092, SNU11-R093, SNU11-R095	NRICH, 2013
9	Pungnap Toseong	Charred wood	Pithouse (#GA-3)	1980	50	-94	204	41	KCP 290	NRICH, 2001
10	Pungnap Toseong	Charred wood	Building (#44)	1960	50	-46	206	65	KCP 427	Kwon et al., 2004
11	Pungnap Toseong	Charred wood	Pithouse (#NA-8)	1960	50	-46	206	65	SNU 08-302	NRICH, 2012a
12	Pungnap Toseong	Charred wood	Pithouse (#NA-10)	1950	29	-37	201	75	SNU 10-522, SNU 11-R086	NRICH, 2012a
13	Pungnap Toseong	Charred wood	Earthen wall (Deposit VI, Area B)	1930	50	-39	222	101	KCP 402	NRICH, 2002
14	Pungnap Toseong	Charred wood	Pit (#NA-36-1)	1930	50	-39	222	101	SNU 08-301	NRICH, 2012a
15	Pungnap Toseong	Charred wood	Pit (#NA-19-1)	1920	50	-32	231	115	SNU 08-293	NRICH, 2012a
16	Pungnap Toseong	Charred wood	Building (#44, western ditch)	1900	60	-39	309	137	SNU 00-227	Kwon et al., 2004

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Table S1: Continued

No.	Site	Dated material	Provenience	Radiocarbon dates		Calibrated date (2 σ range)		Lab no.	Reference
				Uncalibrated bp	Error range	From	To		
17	Pungnap Toseong	Charred wood	Pithouse (#GA-2)	1900	60	-39	309	SNU 07-163	NRICH, 2009
18	Pungnap Toseong	Charred wood	Pithouse fireplace (#LA-2)	1900	50	10	243	SNU10-533	NRICH, 2013
19	Pungnap Toseong	Charred wood	Earthen wall (Layer #III-16)	1895	30	69	226	SUERC-37213	NRICH, 2014
20	Pungnap Toseong	Charred wood	Building (#9, lower layer)	1880	50	23	310	KCP 426	Kwon et al., 2004
21	Pungnap Toseong	Charred wood	Pithouse fireplace (#LA-1)	1880	50	23	310	SNU10-534	NRICH, 2013
22	Pungnap Toseong	Charred wood	Pit (#1)	1860	50	34	327	SNU 07-158	NRICH, 2009
23	Pungnap Toseong	Charred wood	Earthen wall (Layer #NS-24)	1855	30	89	245	SUERC-36923	NRICH, 2014
24	Pungnap Toseong	Charred wood	Pithouse (#GA-4)	1850	50	66	332	KCP 291	NRICH, 2001
25	Pungnap Toseong	Charred wood	Pithouse (#LA-7)	1850	50	66	332	SNU10-R167	NRICH, 2013
26	Pungnap Toseong	Charred wood	Pithouse (#LA-8)	1832	19	130	306	SNU10-R168, SNU10-R169, SNU10-R170, SNU10-R171, SNU10-R172, SNU10-R173, SNU10-R175	NRICH, 2013
27	Pungnap Toseong	Charred wood	Pithouse (#MA-1)	1827	24	130	317	SNU 11-R096, SNU 11-R097, SNU 11-R098	NRICH, 2012b
28	Pungnap Toseong	Charred wood	Earthen wall (Deposit III, Area B)	1820	50	84	362	KCP 400	NRICH, 2002
29	Pungnap Toseong	Charred wood	Pithouse (#DA-5)	1820	50	84	362	SNU 10-529	NRICH, 2012b
30	Pungnap Toseong	Charred wood	Pithouse (#DA-3)	1814	32	130	330	SNU 10-531, SNU 10-532	NRICH, 2012b
31	Pungnap Toseong	Charred wood	Pithouse (#NA-10)	1810	50	121	376	SNU 11-R088	NRICH, 2012a

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Table S1: Continued

No.	Site	Dated material	Provenience	Radiocarbon dates		Calibrated date (2 σ range)		Lab no.	Reference
				Uncalibrated bp	Error range	From	To		
32	Pungnap Toseong	Charred wood	Pit (#GA-48)	1790	50	130	383	SNU 07-160	NRICH, 2009
33	Pungnap Toseong	Charred wood	Pit (#NA-39)	1790	50	130	383	SNU 08-300	NRICH, 2012a
34	Pungnap Toseong	Charred wood	Building (#44, entrance)	1780	40	175	404	SNU 00-226	Kwon et al., 2004
35	Pungnap Toseong	Charred wood	Building pillar (#MA-1)	1780	40	175	404	SNU12-R265	NRICH, 2013
36	Pungnap Toseong	Charred wood	Earthen wall (Layer #NS-20)	1780	22	228	342	Beta-306898, SUERC-36921	NRICH, 2014
37	Pungnap Toseong	Charred wood	Pithouse (#LA-3)	1770	50	166	412	SNU10-R166	NRICH, 2013
38	Pungnap Toseong	Charred wood	Trench 2 (PN-16-3)	1760	30	234	381	Beta-439597	NRICH, 2017
39	Pungnap Toseong	Charred wood	Earthen wall (Layer #CS-06)	1760	35	232	401	SUERC-37331	NRICH, 2014
40	Pungnap Toseong	Charred wood	Jar contents (Grid N40E30)	1760	40	225	404	SNU 10-530	NRICH, 2012b
41	Pungnap Toseong	Charred wood	Pithouse (#NA-10)	1748	22	243	376	SNU 10-525, SNU 10-526, SNU 10-527, SNU 11-R087	NRICH, 2012a
42	Pungnap Toseong	Charred wood	Ditch (PN-16-2)	1750	30	239	401	Beta-439596	NRICH, 2017
43	Pungnap Toseong	Charred wood	Pithouse (#NA-7)	1750	50	215	414	SNU 08-296	NRICH, 2012a
44	Pungnap Toseong	Charred wood	Earthen wall (Layer #III-16)	1740	35	244	403	SUERC-36922	NRICH, 2014
45	Pungnap Toseong	Animal bone	Building (#101)	1730	80	130	537	unknown	Kwon et al., 2004
46	Pungnap Toseong	Charred wood	Building (#44)	1730	40	244	410	KCP 488	Kwon et al., 2004
47	Pungnap Toseong	Charred wood	Building wall (#196)	1730	40	244	410	KR08-310	Hanshin University Museum, 2011

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Table S1: Continued

No.	Site	Dated material	Provenience	Radiocarbon dates			Calibrated date (2 σ range)		Lab no.	Reference
				Uncalibrated bp	Error range		From	To		
48	Pungnap Toseong	Charred wood	Earthen wall (Layer #NS-24)	1730	30		248	406	Beta-306903	NRICH, 2014
49	Pungnap Toseong	Charred wood	Earthen wall (Layer #NS-06)	1730	25		250	405	SUERC-39134	NRICH, 2014
50	Pungnap Toseong	Charred wood	Earthen wall (Layer #CS-08)	1720	30		250	411	SUERC-39130	NRICH, 2014
51	Pungnap Toseong	Charred wood	Ditch (PN-16-1)	1720	30		250	411	Beta-439595	NRICH, 2017
52	Pungnap Toseong	Charred wood	Pit (#GA-79)	1710	60		219	535	SNU 08-292	NRICH, 2009
53	Pungnap Toseong	Charred wood	Pithouse (#GA-1)	1700	50		239	531	SNU 07-160	NRICH, 2009
54	Pungnap Toseong	Charred wood	Pithouse (#NA-12)	1700	50		239	531	SNU 08-298	NRICH, 2012a
55	Pungnap Toseong	Charred wood	Pithouse (#NA-3)	1700	50		239	531	SNU 08-297	NRICH, 2012a
56	Pungnap Toseong	Animal bone	Building (#46)	1700	60		235	535	unknown	Kwon et al., 2004
57	Pungnap Toseong	Charred wood	Building (#9)	1700	43		242	433	unknown	Kwon et al., 2004
58	Pungnap Toseong	Charred wood	Pit (#MA-24)	1700	40		247	425	SNU12-R264	NRICH, 2013
59	Pungnap Toseong	Charred wood	Pit (#NA-47)	1690	50		242	534	SNU 08-299	NRICH, 2012a
60	Pungnap Toseong	Charred wood	Pithouse (#NA-18)	1690	40		247	529	SNU 10-528	NRICH, 2012a
61	Pungnap Toseong	Charred wood	Pithouse (#GA-3)	1686	39		249	530	SNU 07-161, SNU 07-162	NRICH, 2009
62	Pungnap Toseong	Charred wood	Building (#44, eastern ditch)	1680	40		250	534	unknown	Kwon et al., 2004
63	Pungnap Toseong	Charred wood	Building (#44, eastern part)	1680	40		250	534	SNU 00-121	Kwon et al., 2004
64	Pungnap Toseong	Charred wood	Pit (#1)	1670	50		251	539	SNU 07-159	NRICH, 2009
65	Pungnap Toseong	Charred wood	Pit (PN-16-4)	1670	30		257	531	Beta-439598	NRICH, 2017

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Table S1: Continued

No.	Site	Dated material	Provenience	Radiocarbon dates		Calibrated date (2 σ range)			Lab no.	Reference
				Uncalibrated bp	Error range	From	To	Median		
66	Pungnap Toseong	Waterlogged wood	Well (artifact #27)	1660	40	258	537	404	SNU 04-808	NRICH, 2007
67	Pungnap Toseong	Charred wood	Earthen wall (Layer #II-01)	1660	30	259	535	404	Beta-307342	NRICH, 2014
68	Pungnap Toseong	Charred wood	Pithouse (#GA-30)	1660	50	255	541	405	SNU 08-295	NRICH, 2009
69	Pungnap Toseong	Charred wood	Earthen wall (Layer #II-109)	1659	25	262	532	406	Beta-306900, SUERC-37213	NRICH, 2014
70	Pungnap Toseong	Charred wood	Earthen wall (Layer #CS-06)	1650	30	262	537	417	Beta-306902	NRICH, 2014
71	Pungnap Toseong	Charred wood	Building (#44)	1650	40	260	540	419	KCP 489	Kwon et al., 2004
72	Pungnap Toseong	Waterlogged wood	Well (artifact #21)	1650	40	260	540	419	SNU 04-809	NRICH, 2007
73	Pungnap Toseong	Charred wood	Pithouse (#NA-6)	1647	32	263	538	422	SNU 08-294, SNU 10-521	NRICH, 2012a
74	Pungnap Toseong	Charred wood	Earthen wall (Layer #III-16)	1640	30	363	539	432	Beta-306901	NRICH, 2014
75	Pungnap Toseong	Charred wood	Pit (#GA-59)	1640	50	258	550	435	SNU 07-165	NRICH, 2009
76	Pungnap Toseong	Charred wood	Pithouse (#GA-6)	1590	50	384	593	485	SNU 07-168	NRICH, 2009
77	Pungnap Toseong	Charred wood	Building (#44, western part)	1520	40	433	639	558	SNU 00-120	Kwon et al., 2004
78	Pungnap Toseong	Charred wood	Pithouse (#GA-2)	1470	50	440	660	597	SNU 07-164	NRICH, 2009
83	Jeongbuk-dong Toseong	Charred wood	Northern gate side, eastern wall	1850	40	81	324	189	SNU11-500	Cho & Lee, 2013
84	Jeongbuk-dong Toseong	Charred wood	Southern gate moat	1690	40	247	529	368	GX-27007	Cho & Lee, 2013

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Table S1: Continued

No.	Site	Dated material	Provenience	Radiocarbon dates		Calibrated date (2 σ range)			Lab no.	Reference
				Uncalibrated bp	Error range	From	To	Median		
85	Jeongbuk-dong Toseong	Charred wood	Western wall, inner side	1690	40	247	529	368	OWd110456	Cho & Lee, 2013
86	Jeongbuk-dong Toseong	Charred wood	Eastern wall, outer side	1680	40	250	534	378	OWd110455	Cho & Lee, 2013
87	Jeongbuk-dong Toseong	Charred wood	Northern gate, western side wall	1620	40	365	553	469	SNU11-501	Cho & Lee, 2013
79	Chuseong-sanseong	Charred wood	Southern wall bottom	1740	30	245	402	322	KGM-OWd130219	JCPRC, 2017
80	Chuseong-sanseong	Charred wood	Southern wall, pithouse #5	1740	30	245	402	322	KGM-OWd130220	JCPRC, 2017
81	Chuseong-sanseong	Charred wood	Southern gate, bottom	1730	30	248	406	333	KGM-OWd130222	JCPRC, 2017
82	Chuseong-sanseong	Charred wood	Southern gate, middle	1700	30	254	419	363	KGM-OWd130221	JCPRC, 2017
88	Banwol-sanseong	Charred wood	Trench 1, pit	1615	50	265	567	469	KCP511	Park et al., 2004
89	Banwol-sanseong	Charred wood	Trench 3	1550	50	416	632	512	KCP514	Park et al., 2004

* Dates with multiple lab numbers are the combined dates.

** Dates were calibrated using Oxcal 4.4 with IntCal20 calibration curve (Bronk Ramsey, 2017; Reimer et al., 2020).

References

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Supplementary material 2

Table S2: Historical accounts on fortification construction according to the *Samguk sagi*

No.	Calendric year	King/Regnal year	Month in lunar calendar	Fortification name	State
1	11 BCE	Onjo/8	7	Masu-seong and Byeongsan-chaek	Baekje
6	8 BCE	Onjo/11	7	Doksan-chaek and Gucheon-chaek	Baekje
4	6 BCE	Onjo/13	7	Hansan-chaek	Baekje
5	6 BCE	Onjo/13	9	Fortress and palace (names unknown)	Baekje
3	5 BCE	Onjo/14	7	Fortress in the northwestern Han river	Baekje
2	4 BCE	Onjo/22	8	Seokdu-seong and Gomok-seong	Baekje
7	6 CE	Onjo/24	7	Ungcheon-chaek	Baekje
8	9 CE	Onjo/27	7	Daedu-sanseong	Baekje
9	18 CE	Onjo/36	7	Tangjeong-seong	Baekje
10	18 CE	Onjo/36	8	Wonsan-seong and Geumhyeon-seong (repair); Gosaburi-seong	Baekje
11	23 CE	Onjo/41	2	Wirye-seong (repair)	Baekje
12	56 CE	Daru/29	2	Wugok-seong	Baekje
13	132 CE	Gaeru/5	2	Bukhan-sanseong	Baekje
14	188 CE	Chogo/23	2	Palace (repair)	Baekje
15	210 CE	Chogo/45	2	Jeokhyeon-seong and Sado-seong	Baekje
16	217 CE	Gusu/4	2	Wooden palisade near Sado-seong	Baekje
17	333 CE	Biryu/30	7	Palace (repair)	Baekje
18	373 CE	Geunchogo/28	7	Fortress in Cheongmok-ryeong	Baekje
19	386 CE	Jinsa/2	Spring	Fortifications connecting Cheongmok-ryeong, Palgon-seong, and the west coast	Baekje
20	391 CE	Jinsa/7	5	Palace (repair)	Baekje
21	398 CE	Asin/7	3	Ssanghyeon-seong	Baekje
22	417 CE	Jeonji/13	7	Sagu-seong	Baekje
23	469 CE	Gaero/15	10	Ssanghyeon-seong (repair); wooden palisade in Cheongmok-ryeong	Baekje
24	475 CE	Gaero/21	9	Fortress (name unknown)	Baekje
25	476 CE	Munju/2	2	Munju-sanseong	Baekje
26	479 CE	Samgeun/3	9	Dugok-seong	Baekje
27	486 CE	Dongseong/8	7	Palace (repair); Udu-seong	Baekje

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Table S2: Continued

No.	Calendric year	King/Regnal year	Month in lunar calendar	Fortification name	State
28	490 CE	Dongseong/12	7	Sahyeon-seong and Yisan-seong	Baekje
29	498 CE	Dongseong/20	7	Sajeong-seong	Baekje
30	500 CE	Dongseong/22	Spring	Palace (repair)	Baekje
31	501 CE	Dongseong/23	7	Tanhyeon-chaek	Baekje
32	501 CE	Dongseong/23	8	Garim-seong	Baekje
33	507 CE	Muryeong/7	5	Two wooden palisades south of Gomok-seong; Jangryeong-seong	Baekje
34	523 CE	Muryeong/23	2	Ssanghyeon-seong	Baekje
35	526 CE	Seong/4	10	Ungjin-seong (repair); Sajeong-chaek	Baekje
36	605 CE	Mu/6	2	Gaksan-seong	Baekje
37	611 CE	Mu/12	8	Jeokam-seong	Baekje
38	630 CE	Mu/31	2	Palace in Sabi (repair)	Baekje
39	632 CE	Mu/33	2	Macheon-seong (repair)	Baekje
40	655 CE	Uija/13	7	Macheon-seong (repair)	Baekje
41	34 BCE	Dongmyeongseong/4	7	Fortress and palace (names unknown)	Goguryeo
42	3 CE	Yuri/22	10	Wenaam-seong	Goguryeo
43	55 CE	Taejo/3	2	Ten fortresses in Liaoxi (names unknown)	Goguryeo
44	198 CE	Sansang/2	2	Hwando-seong	Goguryeo
45	247 CE	Dongcheon/21	2	Pyeongyang-seong	Goguryeo
46	298 CE	Bongsang/7	10	Palace	Goguryeo
47	300 CE	Bongsang/9	8	Palace (repair)	Goguryeo
48	334 CE	Gogukwon/4	8	Pyeongyang-seong (enlargement)	Goguryeo
49	342 CE	Gogukwon/12	2	Hwando-seong (repair); Guknae-seong	Goguryeo
50	393 CE	Gwanggaeto/3	8	Seven fortresses close to the southern border (names unknown)	Goguryeo
51	408 CE	Gwanggaeto/18	7	Six fortresses in the eastern territory, including Doksan-seong	Goguryeo
52	547 CE	Yangwon/3	7	Baekam-seong and Sin-seong (repair)	Goguryeo
53	552 CE	Yangwon/8	Unknown	Jangan-seong	Goguryeo

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Table S2: Continued

No.	Calendric year	King/Regnal year	Month in lunar calendar	Fortification name	State
54	631 CE	Yeongryu/14	2	Cheonri-jangseong	Goguryeo
55	37 BCE	Hyeokgeose/21	Unknown	Geum-seong	Silla
56	87 CE	Pasa/8	9	Gaso-seong, Madu-seong	Silla
57	101 CE	Pasa/22	3	Wol-seong	Silla
58	121 CE	Jima/10	2	Daejeung-sanseong	Silla
59	140 CE	Ilseong/7	2	Jangryeong mokchaek	Silla
60	224 CE	Nahae/29	8	Bongsan-seong	Silla
61	261 CE	Cheomhae/15	3	Dalbeol-seong	Silla
62	293 CE	Yurye/10	3	Sodo-seong (repair)	Silla
63	463 CE	Jabi/6	2	Two fortresses (names unknown)	Silla
64	468 CE	Jabi/11	7	Niha-seong	Silla
65	470 CE	Jabi/13	Unknown	Samnyeong-sanseong	Silla
66	471 CE	Jabi/14	2	Moro-seong	Silla
67	473 CE	Jabi/16	7	Myeonghwal-seong (repair)	Silla
68	474 CE	Jabi/17	Unknown	Ilmo-seong, Sasi-seong, Gwangseok-seong, Dapdal-seong, Gurye-seong, and Jwara-seong	Silla
69	485 CE	Soji/7	2	Gubeol-seong	Silla
70	486 CE	Soji/8	5	Samnyeong-seong and Gulsan-seong (repair)	Silla
71	487 CE	Soji/9	7	Wol-seong (repair)	Silla
72	488 CE	Soji/10	7	Dona-seong	Silla
73	490 CE	Soji/12	2	Bira-seong (repair)	Silla
74	493 CE	Soji/15	7	Imhae-jin and Janryeong-jin	Silla
75	504 CE	Jijeung/5	9	Twelve fortresses including Pari-seong, Misil-seong, Jindeok-seong, and Golhwa-seong	Silla
76	518 CE	Beopheung/5	2	Jusan-seong	Silla
77	550 CE	Jinheung/11	3	Two fortresses (enlargement; names unknown)	Silla
78	554 CE	Jinheung/15	7	Myeonghwal-seong (repair)	Silla
79	577 CE	Jinji/2	10	Naeriseo-seong	Silla

(Continued)

Table S2: Continued

No.	Calendric year	King/Regnal year	Month in lunar calendar	Fortification name	State
80	591 CE	Jinpyeong/13	7	Namsan-seong	Silla
81	593 CE	Jinpyeong/15	7	Myeonghwal-seong, Seohyeong-sanseong (repair)	Silla
82	626 CE	Jinpyeong/48	8	Goheo-seong	Silla
83	656 CE	Taejong Muyeol/3	Unknown	Jangsan-seong	Silla
84	658 CE	Taejong Muyeol/5	3	Siljik-seong	Silla
85	661 CE	Munmu/1	9	Ungbyeon-seong	Silla
86	663 CE	Munmu/3	5	Busan-seong	Silla
87	672 CE	Munmu/12	8	Jujiang-seong	Silla
88	673 CE	Munmu/13	2	Seohyeng-sanseong	Silla
89	673 CE	Munmu/13	8	Sayeol-sanseong (enlargement)	Silla
90	673 CE	Munmu/13	9	Gukwon-seong, Bukhyeong-sanseong, Somun-seong, Yisan-seong, Juyang-seong, Jujam-seong, Manheungsa-sanseong, and Goljaenghyeon-seong	Silla
91	675 CE	Munmu/15	2	Cheolgwan-seong and some fortresses	Silla
92	679 CE	Munmu/19	8	Namsan-seong (enlargement)	Silla
93	687 CE	Sinmun/7	Fall	Sabeolju-seong and Sapryangju-seong	Silla
94	689 CE	Sinmun/9	9	Seowongyeong-seong	Silla
95	691 CE	Sinmun/11	Unknown	Namwon-seong	Silla
96	694 CE	Hyoso/3	Winter	Songak-seong and Ujam-seong	Silla
97	713 CE	Seongdeok/12	12	Gae-seong	Silla
98	718 CE	Seongdeok/17	10	Many fortresses in Hansanju Dodok	Silla
99	721 CE	Seongdeok/20	7	Long wall along the northern border (name unknown)	Silla
100	722 CE	Seongdeok/21	10	Mobeolgun-seong	Silla
101	762 CE	Gyeongdeok/21	5	Six fortresses in Ogok, Hyuam, Hanseong, Jangsae, Jiseong, and Deokgok	Silla
102	826 CE	Heondeok/18	7	Paegang-jangseong	Silla
103	844 CE	Munseong/6	8	Hyeolgu-jin	Silla
104	928 CE	Gyeongsun/2	8	Yangsang-seong	Silla