

Appendix 1. The list of research subjects

No.	Research Subjects	Latitude	Longitudinal	Elevation(m)
1	Geunjeongjeon Hall of Gyeongbokgung Palace	37.578506	126.977011	26
2	Guksadang Shrine of Inwangsan Mountain	37.592719	126.966553	123
3	Daeungjeon Hall of Jeondeungsa Temple, Ganghwa	37.632000	126.484942	130
4	Josadang Shrine of Silleuksa Temple, Yeosu	37.297767	127.661381	40
5	Paldalmun Gate, Suwon	37.277689	127.016925	47
6	Yeongsanjeon Hall of Seongnamsa Temple, Anseong	36.939839	127.306917	224
7	Ritual House at Geonwol-leung Royal Tomb, Guri	37.624244	127.131075	40
8	Daeungbojeon Hall of Yongjusa Temple, Hwaseong	37.212386	127.005003	51
9	Eo Jae-yeon's House, Icheon	37.045350	127.560325	136
10	Historic House of Mae-gok-ri, Yangju	37.894536	126.957031	136
11	Donggwandaek House, Namyangju	37.687000	127.158244	57
12	Main Gate of Imyeongwan Guesthouse, Gangneung	37.752875	128.892017	19
13	Hoejeonmun Gate of Cheongpyeongsa Temple, Chuncheon	37.986167	127.809078	306
14	Jukseoru Pavilion, Samcheok	37.441056	129.160556	10
15	Shingled House and Folk Artifacts of Sin-ri, Samcheok	37.186975	129.133647	464
16	Geungnakbojeon Hall of Sinheungsa Temple, Sokcho	38.175994	128.484297	231
17	Jeongmyeolbogung Hall in Jungdae Peak of Odaesan Mountain, Pyeongchang	37.789817	128.556150	1180

18	Wanggok Village, Goseong	38.341242	128.498675	20
19	Palsangjeon Wooden Pagoda of Beopjusa Temple, Boeun	36.541872	127.832956	352
20	Hanbyeongnu Pavilion in Cheongpung, Jecheon	37.004900	128.171656	196
21	Daeungjeon Hall of Ansimsa Temple, Cheongju	36.552567	127.413258	145
22	Soseok House, Yeongdong	36.217886	127.712686	103
23	Yun Yang-gye's House, Chungju	37.083758	127.920356	75
24	Kim Hang-muk's House, Goesan	36.781775	127.859364	130
25	Jaenmal House, Eumseong	37.080803	127.657589	137
26	Jo Deok-su's House, Danyang	37.003325	128.383883	164
27	Daeungjeon Hall of Sudeoksa Temple, Yesan	36.663175	126.622658	151
28	Daeungjeon Hall of Gaesimsa Temple, Seosan	36.746936	126.590314	187
29	Dongchundang Hall in Hoedeok, Daejeon	36.364969	127.441458	85
30	Geungnakjeon Hall of Muryangsa Temple, Buyeo	36.317142	126.693228	156
31	Saun House, Hongseong	36.498111	126.743142	46
32	Eungdodang Lecture Hall of Donamseowon Confucian Academy, Nonsan	36.208897	127.180925	34
33	Daegwangbojeon Hall of Magoksa Temple, Gongju	36.559111	127.012208	113
34	Jungakdan Shrine in Gyeongyongsan Mountain, Gongju	36.335375	127.184836	114
35	Hong Sun-hyeong's House, Sejong	36.534019	127.365253	38
36	Champandaek House in Oeam Village, Asan	36.730314	127.018586	65
37	Yi Ha-bok's House, Seocheon	36.080872	126.759425	17
38	Upper Daeungjeon Hall of Janggoksa Temple, Cheongyang	36.417519	126.860244	148

39	Mireukjeon Hall of Geumsansa Temple, Gimje	35.723147	127.053825	140
40	Geungnakjeon Hall of Hwaamsa Temple, Wanju	36.066058	127.287008	250
41	Daeseongjeon Shrine of Jangsuhyanggyo Local Confucian School	35.648478	127.523275	419
42	Pihyangjeong Pavilion, Jeongeup	35.651389	126.943083	16
43	Gwanghallu Pavilion, Namwon	35.403856	127.379831	84
44	Daeungjeon Hall of Seonunsa Temple, Gochang	35.497208	126.578183	20
45	Daeungbojeon Hall of Naesosa Temple, Buan	35.617553	126.586956	53
46	Pungpaejigwan Guesthouse, Jeonju	35.817961	127.145383	44
47	Bogwangjeon Hall of Sungnimsa Temple, Iksan	36.081644	126.915714	66
48	Suseonru Pavilion, Jinan	35.745969	127.344383	284
49	Geungnakbojeon Hall of Muwisa Temple, Gangjin	34.738725	126.686800	145
50	Haetalmun Gate of Dogapsa Temple, Yeongam	34.752728	126.662075	91
51	Guksajeon Shrine of Songgwangsa Temple, Suncheon	35.001861	127.276444	223
52	Gakhwangjeon Hall of Hwaeomsa Temple, Gurye	35.257119	127.497419	253
53	Jinnamgwang Hall, Yeosu	34.741822	127.736669	27
54	Daeseongjeon Shrine of Najuhyanggyo Local Confucian School	35.033289	126.711431	19
55	Daeungjeon Hall of Bulgapsa Temple, Yeonggwang	35.200747	126.549936	70
56	Daeungjeon Hall of Mihwangsa Temple, Haenam	34.382992	126.577850	211
57	Daeungjeon Hall of Neunggasa Temple, Goheung	34.639067	127.414014	45
58	Yang Jae-hyeong's House, Hwasun	34.984483	126.911600	39

59	Jehojeong House, Gokseong	35.322119	127.221292	67
60	Historic House of Yureo- ri, Boseong	34.866475	127.167011	133
61	Jonjae House, Jangheung	34.549492	126.950075	66
62	Historic House of Yugyo- ri, Muan	34.847244	126.438122	20
63	Kim Whanki's House, Si- nan	34.752800	126.121675	15
64	Eungjinjeon Hall of Buryeongsa Temple, Uljin	36.941044	129.273050	178
65	Manhoe House, Bonghwa	36.897242	128.715358	188
66	Geungnakjeon Hall of Bongamsa Temple, Mung- yeong	36.700161	128.006378	269
67	Muryangsujeon Hall of Buseoksa Temple, Yeongju	36.998797	128.687508	486
68	Museom Village, Yeongju	36.731444	128.621369	118
69	Seoseokji Garden, Yeongyang	36.611792	129.069614	207
70	Chunghyodang Head House, Yeongdeok	36.553597	129.365367	36
71	Jeongyodang Lecture Hall of Dosanseowon Con- fucian Academy, Andong	36.727303	128.843536	177
72	Yangjindang House in Hahoe, Andong	36.538881	128.516861	77
73	Daejangjeon Hall and Ro- tating Sutra Case of Yong- munsa Temple, Yecheon	36.731458	128.369722	399
74	Yangjindang House, Sangju	36.364069	128.229133	61
75	Manchwidang House, Uiseong	36.424158	128.762153	160
76	Bogwangjeon Hall of Daejeonsa Temple, Cheong- song	36.396639	129.145875	237
77	Daeungjeon Hall of Jikjisa Temple, Gimcheon	36.116992	128.004453	202
78	Yeongsanjeon Hall of Geojoam Hermitage of Eunhaesa Temple, Yeong- cheon	36.020128	128.764961	293

79	Mucheomdang House in Yangdong, Gyeongju	36.001908	129.252567	26
80	Daeungjeon Hall of Bulguksa Temple, Gyeongju	35.790106	129.332100	238
81	Jeokgwangjeon Hall of Bogyongs Temple, Pohang	36.252233	129.317794	94
82	Daeungjeon Hall of Dae-dunsa Temple, Gumi	36.335967	128.242072	211
83	Ssangam House, Gumi	36.190031	128.384361	33
84	Daeungjeon Hall of Hwanseongs Temple, Gyeongsan	35.936319	128.766086	366
85	Daeungjeon Hall of Daebisa Temple, Cheongdo	35.656358	128.936161	182
86	Hangae Village, Seongju	35.930256	128.327786	63
87	Taegojeong House, Dalseong	35.911339	128.416647	56
88	Daeungjeon Hall of Donghwasa Temple, Daegu	35.993164	128.704258	496
89	Janggyeongpanjeon Depositories of Haeinsa Temple, Hapcheon	35.801608	128.098808	653
90	Mugwa House, Hapcheon	35.679167	128.130908	206
91	Daeungjeon Hall and Ordination Platform of Tongdosa Temple, Yangsan	35.487922	129.063797	163
92	Sebyeongwan Hall, Tongyeong	34.847539	128.423200	28
93	Yeongnamnu Pavilion, Miryang	35.491636	128.755125	37
94	Yaksajeon Hall of Gwall-yongs Temple, Changnyeong	35.531733	128.553319	368
95	Daeungjeon Hall of Yulgoksa Temple, Sancheong	35.416411	127.966717	379
96	Daeungjeon Hall of Ssanggyesa Temple, Hadong	35.232611	127.650814	161
97	Jinjuseong Fortress	35.190319	128.080053	20
98	Historic House of the Jinyang Ha Clan, Changnyeong	35.540422	128.496078	67
99	Ildu House, Hamyang	35.566322	127.768636	173

100	Donggye Head House, Geochang	35.755097	127.828881	281
101	Heo Sam-dul's House, Hamyang	35.630344	127.810886	198
102	Mugiyeondang Garden, Haman	35.298736	128.538978	53
103	Daeungjeon Hall of Beomeosa Temple, Busan	35.283997	129.068217	327
104	Daeungjeon Hall of Jangansa Temple, Gijang	35.374631	127.232967	100
105	Gwandeokjeong Hall, Jeju	33.513353	126.521594	10
106	Merchant's House in Seongeup Village, Jeju	33.386856	126.801756	121

Appendix 2. Changes in the NDATA in major wooden cultural heritages in Korea (1980-2019) (Unit: days/year)

No.	Research Subjects	1980s'	1990s'	2000s'	2010s'
1	Geunjeongjeon Hall of Gyeongbokgung Palace	232	238	239	239
2	Guksadang Shrine of Inwangsan Mountain	228	234	235	235
3	Daeungjeon Hall of Jeondeungsa Temple, Ganghwa	226	228	232	233
4	Josadang Shrine of Silleuksa Temple, Yeosu	238	242	246	243
5	Paldalmun Gate, Suwon	233	240	242	240
6	Yeongsanjeon Hall of Seongnamsa Temple, Anseong	229	235	236	236
7	Ritual House at Geonwol-leung Royal Tomb, Guri	232	238	239	239
8	Daeungbojeon Hall of Yongjusa Temple, Hwaseong	234	240	244	240
9	Eo Jae-yeon's House, Icheon	233	239	242	239
10	Historic House of Mae-gok-ri, Yangju	226	227	232	233