



Supplement

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Appendix S1. Basic information of 35 plots in Daiyun Mountain.

Plot	Longitude	Latitude	Elevation(m)	Aspect	Slope	Slope position
1	118°06'19.59"	25°42'30.8"	1466.1	south	25	flat
2	118°06'37.72"	25°42'30.29"	1456	northeast	15	flat
3	118°06'37.11"	25°41'54.74"	1337.6	north	30	mid-slope
4	118°06'17.83"	25°40'2.5"	1286.8	west	30	flat
5	118°08'56.92"	25°39'46.88"	1170.4	southwest	26	flat
6	118°07'53.05"	25°38'37.72"	1051	mid-slope	30	flat
7	118°09'52.83"	25°38'54.97"	1198	southeast	20	flat
8	118°10'23.16"	25°39'53.8"	1280.5	southeast	30	valley
9	118°10'41.2"	25°41'33.01"	1448	northwest	16	flat
10	118°10'50.6"	25°41'39.64"	1456.2	northeast	10	flat
11	118°10'27.21"	25°41'20.28"	1627	non slope	0	valley
12	118°10'42.04"	25°41'10.3"	1518.6	north	5	downslope
13	118°10'41"	25°41'5'	1552.8	north	20	downslope
14	118°10'51.32"	25°40'22.87"	1530	east	14	flat
15	118°10'59.53"	25°40'7.51"	1425.3	non slope	9	valley
16	118°10'45.55"	25°40'5.4"	1453	southwest	19	flat
17	118°10'50.58"	25°39'57.85"	1230	south	10	valley
18	118°10'26.8"	25°39'43.35"	1325.9	north	28	downslope
19	118°10'36.75"	25°39'30.83"	1154.9	northwest	25	flat
20	118°11'21.63"	25°39'41.31"	1103.3	northwest	25	flat
21	118°11'29.74"	25°39'35.7"	1242.7	north	11	downslope
22	118°10'12.94"	25°39'12.73"	1347.1	northeast	33	flat
23	118°12'9.24"	25°39'29.36"	1510.2	east	15	upper slope
24	118°12'38.92"	25°39'27.82"	1515.8	southeast	0	downslope
25	118°12'23.27"	25°38'52.99"	1004	east	25	valley
26	118°12'21"	25°41'25.06"	1234	non slope	10	valley
27	118°11'53.75"	25°41'18.44"	1526	northeast	17	depression
28	118°11'36.03"	25°40'55.35"	1328.7	mid-slope	20	depression
29	118°12'37.4"	25°40'35.5"	1645.2	northeast	15	upper slope
30	118°12'59.86"	25°38'51"	1637	northeast	15	downslope
31	118°36'52"	25°43'26"	1689.8	east	15	upper slope
32	118°17'41.91"	25°41'30.72"	1025	northeast	30	downslope
33	118°18'5.54"	25°41'57.06"	1044.9	northeast	0	downslope
34	118°17'42.81"	25°41'13.16"	1131.2	east	15	flat
35	118°15'6.55"	25°41'28.62"	1378	non slope	0	mid-slope

Appendix S2 The mean and max of DBH and height of 35 plots in Daiyun Mountain.

Association	Plot	Mean DBH	Mean Height	Max DBH	Max Height
I	1	11.06	9.04	23.00	18.00
I	2	12.61	8.02	23.30	12.00
I	3	9.78	7.40	26.30	14.00
III	4	11.36	7.57	26.20	10.00
VI	5	10.14	5.45	19.30	8.10
VI	6	10.86	6.60	31.90	15.00
I	7	10.91	7.84	33.50	17.00
VI	8	9.91	5.25	37.50	11.00
I	9	14.68	9.11	32.00	15.00
III	10	11.89	7.40	25.00	11.00
IV	11	10.11	6.03	21.00	11.00
V	12	11.23	8.33	32.00	14.00
VII	13	8.61	3.89	16.00	6.00
V	14	10.64	5.63	23.60	10.00
IV	15	12.96	6.25	32.40	11.00
IV	16	11.58	8.05	29.00	18.00
VI	17	9.05	6.30	34.10	14.00
III	18	11.12	6.40	31.50	12.50
II	19	11.88	6.51	33.00	12.00
II	20	14.01	9.53	44.50	15.00



III	21	12.57	8.28	26.00	18.00
I	22	12.59	5.62	22.00	9.00
V	23	8.02	4.07	17.40	7.00
V	24	8.32	2.95	19.00	6.00
II	25	13.35	6.99	32.50	35.00
VI	26	12.14	5.96	48.50	10.00
III	27	14.03	9.19	32.10	14.00
VI	28	11.79	7.49	33.50	13.00
VII	29	10.83	6.28	24.20	14.00
VII	30	3.23	0.42	11.00	0.80
VII	31	3.93	0.39	13.00	1.20
II	32	10.66	4.95	25.70	7.50
II	33	16.21	9.92	60.70	19.50
II	34	12.01	4.57	20.60	6.00
I	35	9.23	7.89	32.70	14.50

Appendix S3 Main characteristics of seven associations in Daiyun Mountain.

		I	II	III	IV	V	VI	VII
ELE	range	1198–1466.1	1004–1154.9	1242.7–1526	1425.3–1627	1510.2–1530	1051–1328.7	1552.8–1689.8
	average	1375.8	1077.2	1367.5	1501.8	1518.7	1215.8	1631.2
	SD	94.6	61.3	119.2	109.3	8.3	96.6	57.2
ASP	range	1–9	2–4	1–5	7–9	1–6	5–9	1–4
	average	4	3	2	8	4	7	2
	SD	3.207	0.894	1.643	1.155	2.062	1.633	1.258
SPO	range	3–5	1–4	2–4	1–3	3–6	1–3	4–6
	average	3.571	3	3	2	4	2	5
	SD	0.976	1.096	0.82	1.156	1.258	0.983	1.155
SLOP	range	0–33	0–30	10–30	0–19	0–15	10–30	15–20
	average	20	20	19	9	9	21	16.25
	SD	11.067	9.333	9.365	9.504	7.234	9.274	2.500
pH	range	4.305–4.985	4.52–5.125	3.64–5	4.71–4.865	4.36–4.915	4.53–4.93	4.44–4.955
	average	4.748	4.787	4.485	4.792	4.569	4.708	4.744
	SD	0.258	0.210	0.514	0.078	0.259	0.150	0.249
TN	range	2.711–7.682	0.840–5.089	3.255–6.855	3.483–9.278	4.72–6.454	1.043–5.298	4.414–11.78
	average	4.643	3.558	4.909	5.784	5.518	3.475	7.907
	SD	2.030	1.540	1.289	3.077	0.722	1.588	3.016
SOC	range	34.99–113.01	7.80–57.22	45.89–115.9	43.88–72.12	77.71–89.87	28.38–76.4	51.60–72.5
	average	67.83	36.38	66.53	59.17	84.81	58.95	60.60
	SD	31.67	18.58	29.00	14.26	5.78	18.39	8.73
TP	range	0.0867–0.5097	0.1345–0.3210	0.2212–0.3882	0.3123–0.3860	0.2494–0.5053	0.1323–0.4793	0.2646–0.4533
	average	0.2940	0.2519	0.2786	0.3412	0.3535	0.3141	0.3752
	SD	0.1623	0.0822	0.0689	0.0394	0.1109	0.1199	0.0904
TK	range	16–33.75	14.25–27.75	9.75–26	10–16.5	19–21.25	7.5–24.75	15.25–27
	average	24.89	20.33	16.95	14.08	20.25	15.67	21.31
	SD	5.96	5.09	6.79	3.56	1.06	6.66	4.87
SWC	range	0.3399–0.6949	0.3722–0.8148	0.2571–0.6575	0.5153–0.6778	0.3954–0.6388	0.3677–0.6891	0.5644–0.7169
	average	0.5167	0.5468	0.4849	0.6156	0.5166	0.4525	0.6548
	SD	0.1402	0.1707	0.1240	0.0877	0.1005	0.1205	0.0651

SD = standard deviation

Appendix S4. DCA ordination of *Pinus taiwanensis* forest in Daiyun Mountain

	DCA1	DCA2	DCA3	DCA4
Eigenvalues	0.5655	0.4027	0.3374	0.2849
Decorana value	0.5844	0.4262	0.3103	0.2381
Axis lengths	5.0918	3.2901	2.4243	2.2653

Appendix S5. VIFs of ten environmental factors in Daiyun Mountain

Variables	VIFs
ELE	2.177
ASP	1.957
SLOP	1.384
SPO	2.315
pH	1.623
TN	2.662
SOC	3.168
TP	1.815
TK	1.922
SWC	1.589