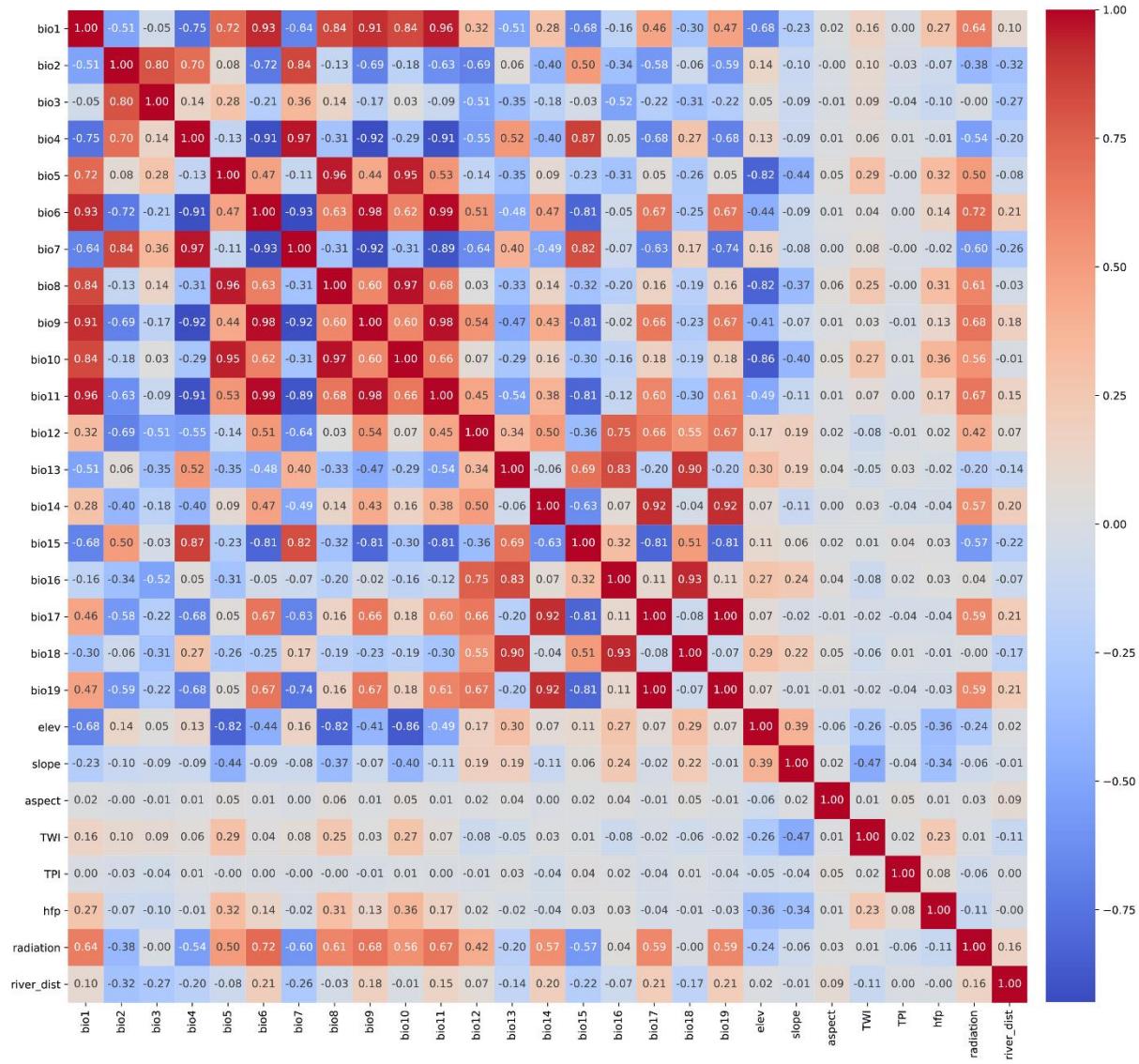
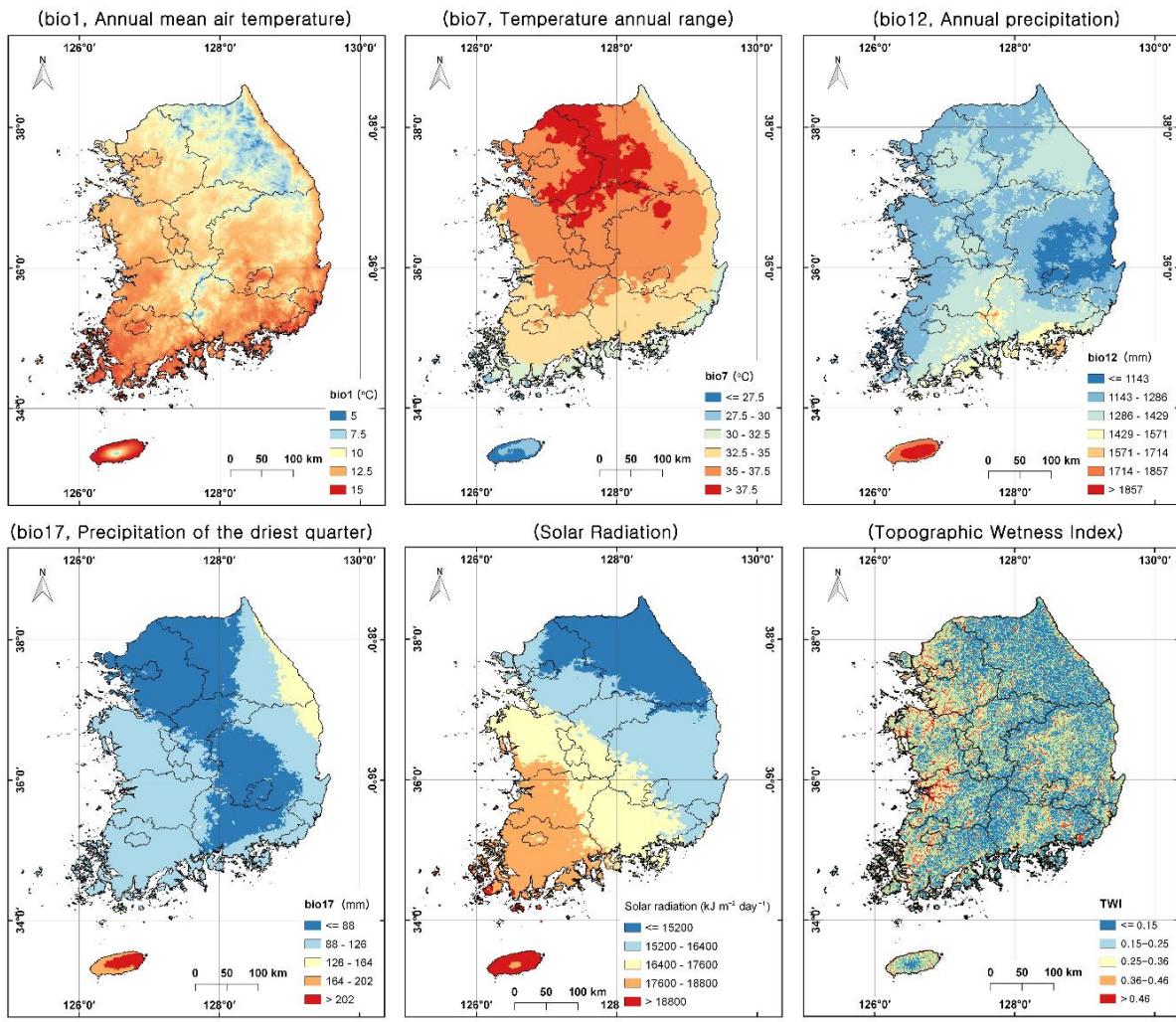


**Table S1.** Comparison of mean and range of environmental variables between the presence and absence spots of *S. altissima* in South Korea.

ID	Description	Presence (n=135)			Absence (n=380)		
		Mean	Min.	Max.	Mean	Min.	Max.
elev (m)	Elevation	50	0	437	115	-3	1,489
aspect	Aspect	2.41	1	4	2.52	1	4
slope (degree)	Slope	1.64	0.05	11.25	2.09	0.01	11.39
TPI	Topographic Position Index	-3.45	-49.37	33.12	-0.64	-37.62	65.5
TWI	Topographic Wetness Index	0.33	0.05	0.69	0.29	0.02	0.66
River_dist(m)	Distance from River	1,050	0	6,960	769	0	10,125
srad (kJ m <sup>-2</sup> day <sup>-1</sup> )	Solar radiation	17,655	15,058	19,448	16,759	14,523	19,419
HFP	Human Foot-Printing	26.87	6	46	23.93	4	47
bio_1 (°C)	Annual mean temp.	13.2	11.0	15.1	12.0	5.9	15.9
bio_2 (°C)	Mean diurnal range of temp.	9.5	6.7	11.0	10.1	6.4	11.8
bio_3	Isothermality	28.2	24.2	30.5	28.4	23.8	31.2
bio_4 (°C)	Temp. seasonality	912	763	1,041	955	720	1,052
bio_5 (°C)	Max. temp. of warmest month	29.5	27.5	30.6	28.8	22.3	31.0
bio_6 (°C)	Min. temp. of coldest month	-4.3	-8.2	1.6	-6.6	-13.2	2.8
bio_7 (°C)	Temp. annual range	33.8	27.5	36.8	35.4	26.5	38.6
bio_8 (°C)	Mean temp. of wettest quarter	24.0	22.5	24.7	23.2	17.1	24.9
bio_9 (°C)	Mean temp. of driest quarter	2.0	-2.0	8.0	0.0	-6.0	9.3
bio_10 (°C)	Mean temp. of warmest quarter	24.1	22.5	24.7	23.4	17.1	24.9
bio_11 (°C)	Mean temp. of coldest quarter	1.7	-2.0	5.8	-0.1	-6.0	7.2
bio_12 (mm)	Annual precipitation	1,331	1,148	1,849	1,283	1,049	1,930
bio_13 (mm)	Precip. of wettest month	267	213	328	281	204	379
bio_14 (mm)	Precip. of driest month	30.2	16.0	54.0	27.0	15.0	54.0
bio_15	Precip. seasonality	73.9	55.2	99.4	80.2	54.1	101.8
bio_16 (mm)	Precip. of wettest quarter	689	567	827	695	514	905
bio_17 (mm)	Precip. of driest quarter	109	62	204	96	58	209
bio_18 (mm)	Precip. of warmest quarter	670	532	774	681	474	905
bio_19 (mm)	Precip. of coldest quarter	109	62	208	96	59	216



**Figure 1S.** Pearson correlation coefficient matrix comparing 27 environmental variables. (Variable descriptions are given in Table S1).



**Figure 2S.** Maps of six environmental variables pattern in South Korea.