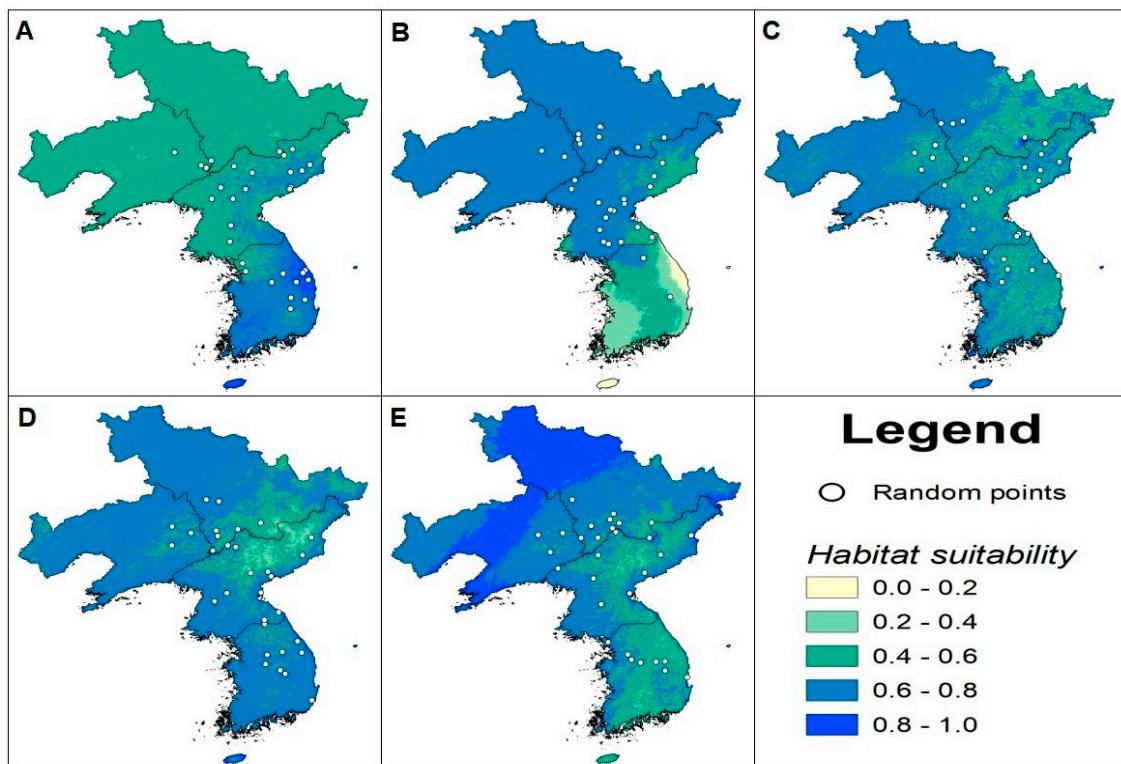


How Threatened is *Scincella huanrenensis*? An Update on Threats and Trends.

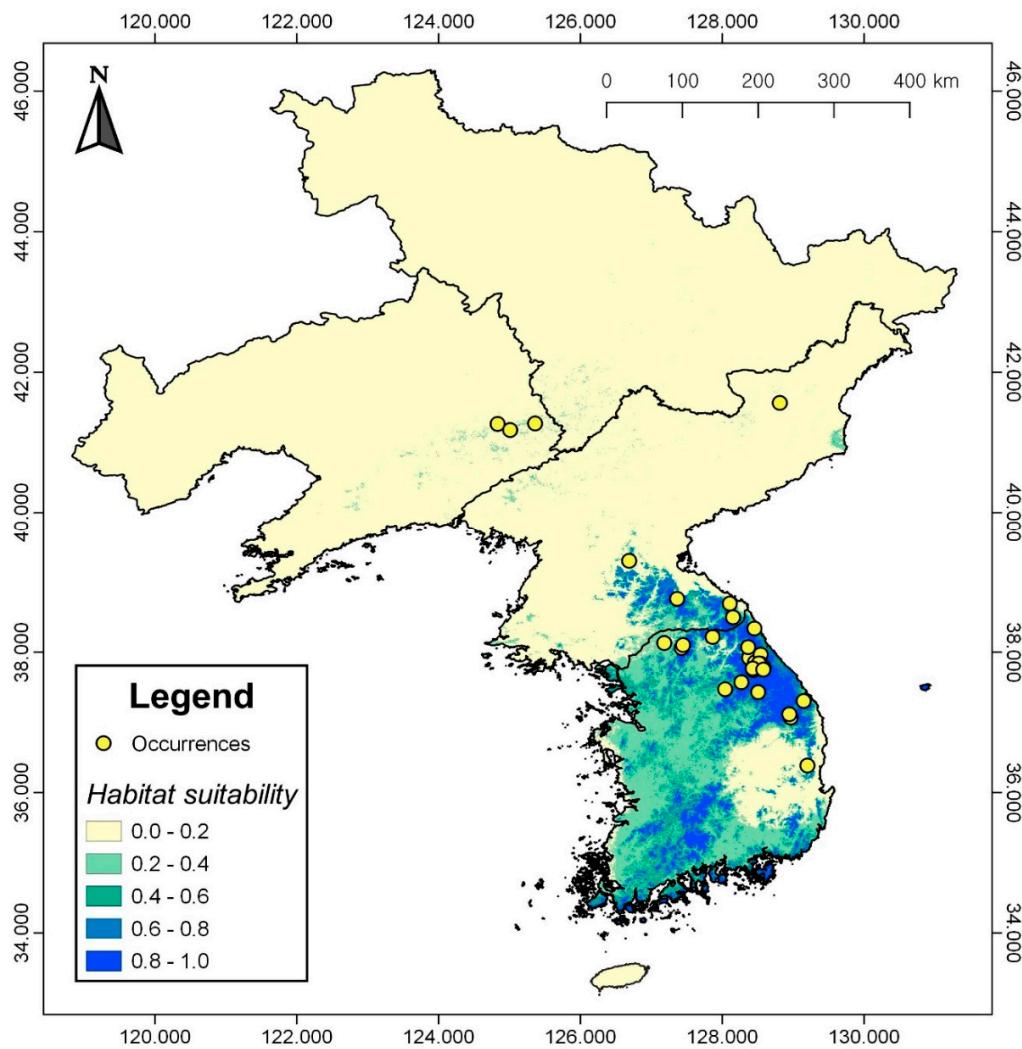
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Supplementary files:



Supplementary Figure 1. A series of null models generated in the Maxent software, each using a set of 31 randomly sampled points, 10 000 random background points, and default settings. A) null model 1: AUC = 0.481; B) null model 2: AUC = 0.475; C) null model 3: AUC = 0.485; D) null model 4: AUC = 0.425; E) null model 5: AUC = 0.463. Therefore, the null models demonstrate that the predictive ability of models generated with actual species occurrences are significantly better than models generated with randomly sampled points.



Supplementary Figure 2. The averaged ensemble model output, generated with six modeling algorithms in the *biomod2* R package. While the evaluation metrics indicate an excellent predictive performance of the model (AUC = 0.96; TSS = 0.80), it did not adjust the regional sampling bias. Therefore, we rejected this model and used the Maxent model (see text) for all downstream analyses on the Extent of Occurrence (EOO) and threat assessment. The superiority of the Maxent model over the ensemble model in this case is likely due to the ability of the former to more explicitly modify background selection strategy in relation to sampling bias (e.g. incorporation of a bias layer).

Supplementary Table 1. The result of *ENMeval* run to determine the optimal Maxent model settings.

Model	settings	features	rm	train. AUC	avg.test. AUC	var.tes t.AUC	avg.diff. AUC	var.dif f.AUC	avg.test. orMTP	var.test. orMTP	avg.test. or10pct	var.test. or10pct	AICc	delta.A ICc	w.AIC	parameters
1	L_0.5	L	0.5	0.840	0.801	0.015	0.058	0.013	0.062	0.007	0.162	0.042	729.911	13.353	0.001	7
2	LQ_0.5	LQ	0.5	0.863	0.815	0.011	0.061	0.013	0.029	0.004	0.162	0.028	716.558	0.000	0.960	7
3	H_0.5	H	0.5	0.899	0.796	0.014	0.110	0.020	0.095	0.008	0.314	0.055	NA	NA	NA	36
4	LQH_0.5	LQH	0.5	0.901	0.794	0.014	0.115	0.020	0.095	0.008	0.348	0.035	NA	NA	NA	38
5	LQHP_0.5	LQHP	0.5	0.900	0.795	0.014	0.112	0.021	0.124	0.015	0.314	0.055	NA	NA	NA	32
6	LQHPT_0.5	LQHPT	0.5	0.924	0.809	0.018	0.120	0.024	0.129	0.019	0.319	0.051	NA	NA	NA	43
7	L_1	L	1	0.840	0.799	0.014	0.061	0.012	0.062	0.007	0.162	0.042	730.939	14.381	0.001	7
8	LQ_1	LQ	1	0.862	0.817	0.014	0.061	0.013	0.029	0.004	0.162	0.028	723.909	7.351	0.024	8
9	H_1	H	1	0.878	0.825	0.015	0.072	0.014	0.062	0.007	0.224	0.048	751.536	34.978	0.000	15
10	LQH_1	LQH	1	0.879	0.814	0.016	0.081	0.019	0.062	0.007	0.224	0.048	751.749	35.190	0.000	15
11	LQHP_1	LQHP	1	0.879	0.823	0.015	0.075	0.015	0.062	0.007	0.224	0.048	760.039	43.481	0.000	16
12	LQHPT_1	LQHPT	1	0.887	0.827	0.018	0.079	0.017	0.062	0.007	0.224	0.048	775.792	59.234	0.000	18
13	L_1.5	L	1.5	0.841	0.797	0.014	0.064	0.011	0.062	0.007	0.162	0.042	732.136	15.578	0.000	7
14	LQ_1.5	LQ	1.5	0.861	0.810	0.014	0.063	0.013	0.029	0.004	0.195	0.048	727.822	11.264	0.003	8
15	H_1.5	H	1.5	0.872	0.837	0.015	0.060	0.010	0.029	0.004	0.129	0.019	731.024	14.465	0.001	11
16	LQH_1.5	LQH	1.5	0.874	0.823	0.017	0.072	0.016	0.029	0.004	0.162	0.028	736.827	20.269	0.000	12
17	LQHP_1.5	LQHP	1.5	0.872	0.835	0.016	0.062	0.011	0.029	0.004	0.195	0.048	736.410	19.851	0.000	12
18	LQHPT_1.5	LQHPT	1.5	0.876	0.835	0.016	0.063	0.011	0.062	0.007	0.195	0.048	739.635	23.077	0.000	13
19	L_2	L	2	0.841	0.796	0.013	0.064	0.011	0.029	0.004	0.162	0.042	733.485	16.927	0.000	7
20	LQ_2	LQ	2	0.859	0.802	0.014	0.066	0.013	0.029	0.004	0.162	0.042	731.806	15.248	0.000	8
21	H_2	H	2	0.870	0.836	0.016	0.060	0.010	0.029	0.004	0.129	0.019	726.342	9.784	0.007	9
22	LQH_2	LQH	2	0.871	0.829	0.019	0.069	0.014	0.029	0.004	0.162	0.028	735.440	18.882	0.000	11
23	LQHP_2	LQHP	2	0.871	0.835	0.016	0.062	0.011	0.029	0.004	0.162	0.028	735.609	19.051	0.000	11

24	LQHPT_2	LQHPT	2	0.871	0.835	0.016	0.062	0.011	0.029	0.004	0.162	0.028	740.894	24.336	0.000	12			
25	L_2.5	L	2.5	0.842	0.795	0.013	0.063	0.011	0.029	0.004	0.162	0.042	734.973	18.414	0.000	7			
26	LQ_2.5	LQ	2.5	0.857	0.800	0.013	0.065	0.013	0.029	0.004	0.162	0.042	735.601	19.043	0.000	8			
27	H_2.5	H	2.5	0.869	0.833	0.018	0.063	0.011	0.062	0.007	0.162	0.028	735.816	19.258	0.000	10			
28	LQH_2.5	LQH	2.5	0.867	0.830	0.017	0.064	0.013	0.029	0.004	0.162	0.028	739.164	22.606	0.000	11			
29	LQHP_2.5	LQHP	2.5	0.870	0.833	0.018	0.063	0.011	0.062	0.007	0.162	0.028	740.603	24.045	0.000	11			
30	LQHPT_2.5	LQHPT	2.5	0.870	0.833	0.018	0.063	0.011	0.062	0.007	0.162	0.028	740.603	24.045	0.000	11			
31	L_3	L	3	0.842	0.793	0.012	0.061	0.012	0.029	0.004	0.162	0.042	736.589	20.031	0.000	7			
32	LQ_3	LQ	3	0.854	0.800	0.013	0.063	0.013	0.029	0.004	0.129	0.047	739.308	22.749	0.000	8			
33	H_3	H	3	0.868	0.829	0.020	0.065	0.013	0.062	0.007	0.162	0.028	741.167	24.609	0.000	10			
34	LQH_3	LQH	3	0.864	0.829	0.016	0.060	0.011	0.062	0.007	0.129	0.019	733.352	16.794	0.000	9			
35	LQHP_3	LQHP	3	0.868	0.829	0.020	0.065	0.013	0.062	0.007	0.162	0.028	745.978	29.420	0.000	11			
36	LQHPT_3	LQHPT	3	0.868	0.829	0.020	0.065	0.013	0.062	0.007	0.162	0.028	745.978	29.420	0.000	11			
37	L_3.5	L	3.5	0.842	0.789	0.011	0.060	0.012	0.062	0.007	0.162	0.042	738.325	21.767	0.000	7			
38	LQ_3.5	LQ	3.5	0.850	0.798	0.013	0.061	0.014	0.029	0.004	0.129	0.047	743.083	26.525	0.000	8			
39	H_3.5	H	3.5	0.866	0.824	0.021	0.066	0.014	0.095	0.008	0.129	0.019	742.439	25.881	0.000	9			
40	LQH_3.5	LQH	3.5	0.863	0.828	0.015	0.057	0.011	0.062	0.007	0.129	0.019	731.744	15.186	0.000	8			
41	LQHP_3.5	LQHP	3.5	0.866	0.824	0.021	0.067	0.014	0.095	0.008	0.129	0.019	742.407	25.849	0.000	9			
42	LQHPT_3.5	LQHPT	3.5	0.866	0.824	0.021	0.067	0.014	0.095	0.008	0.129	0.019	742.407	25.849	0.000	9			
43	L_4	L	4	0.842	0.781	0.011	0.062	0.013	0.062	0.007	0.195	0.048	740.169	23.611	0.000	7			
44	LQ_4	LQ	4	0.845	0.793	0.013	0.061	0.014	0.062	0.007	0.129	0.047	746.828	30.270	0.000	8			
45	H_4	H	4	0.864	0.821	0.021	0.065	0.014	0.095	0.008	0.129	0.019	744.467	27.909	0.000	8			
46	LQH_4	LQH	4	0.863	0.825	0.015	0.056	0.011	0.062	0.007	0.129	0.019	734.273	17.715	0.000	8			
47	LQHP_4	LQHP	4	0.864	0.821	0.021	0.065	0.015	0.095	0.008	0.129	0.019	744.494	27.936	0.000	8			
48	LQHPT_4	LQHPT	4	0.864	0.821	0.021	0.065	0.015	0.095	0.008	0.129	0.019	744.494	27.936	0.000	8			