



Figure S1. The ROC curve of *S. moorcroftiana* MaxEnt model under the current environment.

Table S1. Geographical distribution and data sources of *S. moorcroftiana* population occurrences.

Population Number	Longitude	Latitude	Reference
1	94.36	29.63	[1]
2	88	28.87	[2]
3	89.55	29.2667	[3]
4	91.585	29.258	[4]
5	91.76	29.22	[5]
6	89.0976	29.2474	[6]
7	91.9922	29.2719	[7]
8	88.8503	29.3593	[7]
9	102.64	37.93	[8]
10	91.21	29.4	[9]
11	90.44	29.21	[9]
12	88.89	29.27	[10]
13	94.21	29.21	[11]
14	105.88	34.57	[12]
15	105.91	34.4806	[13]
16	88.26	29.43	[14]
17	106.219	33.5867	[15]
18	88.9189	29.3167	[16]
19	87.5672	29.125	[16]
20	87.6356	29.0875	[16]
21	90.7503	29.2942	[16]
22	91.0672	29.6606	[16]
23	93.1903	29.9	[16]
24	94.4525	29.4286	[16]
25	91.8622	29.0603	[16]
26	91.7847	29.2481	[16]
27	91.7269	29.8364	[16]
28	93.07	29.04	[17]
29	87.63	29.08	[17]
30	94.475	29.5583	[17]

31	91.2917	29.625	[18]
32	91.2917	29.2917	[19]
33	91.2919	29.2919	[20]
34	111.78	23.14	[21]
35	91.13	29.65	[22]
36	91.2917	29.625	[23]
37	105.17	37.51	[24]
38	102.402	36.4821	[25]
39	97.1804	31.1383	[25]
40	87.9006	29.06	[26]
41	91.2667	29.9667	[26]
42	94.5167	29.45	[26]
43	93.5333	29.1667	[26]
44	93.0422	29.0403	[27]
45	93.075	29.0917	[28]
46	91.2619	29.8947	[28]
47	89.2616	29.1092	[28]
48	91.0583	29.9417	[28]
49	90.3583	29.575	[28]
50	91.4583	29.4917	[28]
51	91.4872	29.2547	[28]
52	87.5303	29.1567	[29]
53	87.5392	29.1158	[29]
54	87.9325	29.0611	[29]
55	88.9389	29.3167	[29]
56	89.605	28.9142	[29]
57	89.6214	29.3411	[29]
58	90.8708	29.2939	[29]
59	91.0303	29.5572	[29]
60	91.7281	29.8361	[29]
61	91.7858	29.245	[29]
62	91.8747	29.0092	[29]
63	93.0419	29.0492	[29]
64	93.1917	29.8972	[29]
65	94.3361	29.3183	[29]
66	94.46	29.4575	[29]
67	94.5197	29.4533	[30]
68	93.5414	29.1728	[30]
69	90.7778	29.3739	[30]
70	91.2686	29.975	[30]
71	87.9006	29.0542	[30]
72	87.5492	29.1319	[30]
73	88.3219	29.345	[30]
74	91.0386	29.2856	[30]
75	92.1578	29.0978	[30]
76	89.0247	29.1569	[30]
77	91.1153	29.6383	[30]
78	91.9697	29.2572	[30]
79	94.5667	29.5333	[31]
80	94.7667	29.7667	[31]
81	93.0667	29.0833	[31]
82	92.95	29.25	[31]
83	91.45	29.4833	[31]
84	91.05	29.9333	[31]
85	90.35	29.5667	[31]
86	90.0333	29.5667	[31]
87	89.4	29.4167	[31]
88	87.9	29.2	[31]
89	87.8833	29.2667	[31]
90	88.55	29.1	[31]

91	94.5744	29.5417	[31]
92	94.7761	29.775	[31]
93	92.9583	29.2583	[31]
94	90.0417	29.575	[31]
95	89.4083	29.425	[31]
96	87.9083	29.2083	[31]
97	87.8917	29.275	[31]
98	88.5583	29.1083	[31]
99	87.9006	29.06	[32]
100	91.1378	29.6526	[33]
101	91.86	29.06	[33]
102	87.53	29.16	[34]
103	89.61	28.91	[34]
104	88.92	29.32	[34]
105	91.73	29.84	[34]
106	91.07	29.66	[34]
107	90.75	29.29	[34]
108	91.78	29.25	[34]
109	93.19	29.9	[34]
110	94.45	29.43	[34]
111	91.3498	29.6693	[35]
112	94.2132	29.2161	[36]
113	94.4319	29.4178	[37]
114	93.1097	29.0956	[37]
115	91.545	29.2561	[37]
116	88.2533	29.3789	[37]
117	89.0986	29.3756	[37]
118	91.1147	29.6369	[37]
119	91.0847	29.6822	[37]
120	94.3931	29.5264	[38]
121	90.8998	29.9644	[39]
122	94.335	29.4097	[40]
123	93.0992	29.0908	[40]
124	91.4747	29.2572	[40]
125	90.8408	29.3756	[40]
126	90.4183	29.2558	[40]
127	90.1089	29.6356	[40]
128	91.0842	29.6761	[40]
129	89.3664	29.3442	[41]
130	91.7614	29.2248	[41]
131	93.2775	29.2956	[41]
132	92.7614	30.2248	[42]
133	94.3612	29.6365	[42]
134	92.6558	29.1236	[43]
135	94.8444	29.3364	[43]
136	88.0217	28.8992	[44]
137	89.0994	29.6822	[45]
138	88.2617	29.4323	[45]
139	90.6275	29.2928	[45]
140	88.887	29.2697	[45]
141	93.0748	93.0748	[46]
142	90.9842	29.2895	[47]
143	93.0333	29.0333	[48]
144	92.65	29.1167	[48]
145	91.4833	29.25	[48]
146	90.6167	29.2833	[48]
147	89.35	29.3333	[48]
148	88.35	29.3333	[48]
149	91.3222	29.26	CVH
150	92.7072	28.3942	CVH

151	92.3831	29.2328	CVH
152	90.9494	29.5364	CVH
153	94.3769	29.3394	CVH
154	97.3603	30.9311	CVH
155	91.0053	29.6381	CVH
156	94.6922	29.9975	CVH
157	90.7556	29.3547	CVH
158	91.2872	29.3639	CVH
159	91.7919	29.8042	CVH
160	99.1042	30.0042	CVH
161	91.1617	29.7089	CVH
162	95.6086	30.0492	CVH
163	91.2411	29.9014	CVH
164	93.4342	29.0958	CVH
165	92.59	29.14	CVH
166	96.92	30.05	CVH
167	94.51	29.88	CVH
168	94.49	29.44	CVH
169	93.84	29.9113	CVH
170	91.4	29.36	CVH
171	89.26	29.01	CVH
172	89.84	29.23	CVH
173	88.87	29.26	CVH
174	89.62	29.35	CVH
175	101.56	36.48	CVH
176	87.08	28.55	CVH
177	91.27	29.25	CVH
178	89.34	29.69	CVH
179	91.2	29.41	CVH
180	99.62	28.12	CVH
181	99.51	28.04	CVH
182	91.04	29.66	CVH
183	91.55	29.83	CVH
184	92.59	29.13	CVH
185	90.96	29.55	CVH
186	97.38	30.34	CVH
187	88.9356	29.3117	FSRITM
188	90.7825	29.3122	FSRITM
189	94.6108	29.4931	FSRITM
190	91.7628	29.225	FSRITM
191	90.9547	29.4381	FSRITM
192	86.6097	29.1486	FSRITM
193	86.9725	29.5831	FSRITM
194	88.3597	29.2094	FSRITM
195	94.3842	29.3442	FSRITM
196	91.0306	29.5672	FSRITM
197	91.0247	29.5758	FSRITM
198	89.3364	29.3431	FSRITM
199	88.3342	29.2069	FSRITM
200	89.625	29.3414	FSRITM
201	91.7756	29.89	FSRITM
202	90.6219	29.2539	FSRITM
203	91.2975	29.2672	FSRITM
204	91.2803	29.2642	FSRITM

205	87.795	29.0628	FSRITM
206	88.3064	29.2067	Field surveys
207	88.7058	29.1633	Field surveys
208	89.355	29.3389	Field surveys
209	92.0717	29.2917	Field surveys
210	92.0417	29.2756	Field surveys
211	93.3092	28.9939	Field surveys
212	93.4089	29.0972	Field surveys
213	93.5081	29.1647	Field surveys
214	91.3374	29.245	Field surveys
215	94.4242	29.4097	Field surveys
216	89.3417	29.3431	Field surveys
217	91.6667	29.2667	Field surveys
218	91.4583	30.1833	Field surveys
219	89.1121	29.3136	Field surveys
220	106.062	37.4253	Field surveys
221	90.6326	29.2836	Field surveys
222	91.4174	29.7488	Field surveys
223	91.3924	29.6986	Field surveys
224	91.3738	29.6917	Field surveys
225	90.6884	29.4418	Field surveys
226	90.7433	29.421926	Field surveys
227	90.6611	29.4478	Field surveys
228	104.113	35.8433	Field surveys
229	94.3333	29.6667	Field surveys
230	91.0798	29.7237	Field surveys
231	88.3478	29.3342	Field surveys
232	89.3494	29.3372	Field surveys
233	90.5703	29.2772	Field surveys
234	91.4836	29.26	Field surveys
235	93.0517	29.0406	Field surveys
236	93.0469	29.0428	Field surveys
237	94.4161	29.3828	Field surveys
238	92.13	30.65	Field surveys
239	94.675	28.7597	Field surveys
240	94.8431	28.7583	Field surveys
241	94.475	29.5583	Field surveys
242	94.4161	29.3825	Field surveys

Note: CVH indicated the Chinese National Plant Specimen Resource Center, FSRITM indicated the Forest Science Research Institute of Tibet Municipality.

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