

**Table S1** *Myotis pilosus* occurrence coordinates in China

Species	Longitude/°	Latitude/°
<i>Myotis pilosus</i>	99.16	25.13
<i>Myotis pilosus</i>	100.55	25.49
<i>Myotis pilosus</i>	100.73	22.62
<i>Myotis pilosus</i>	102.34	24.50
<i>Myotis pilosus</i>	104.44	31.63
<i>Myotis pilosus</i>	105.69	25.44
<i>Myotis pilosus</i>	105.78	26.06
<i>Myotis pilosus</i>	107.15	28.23
<i>Myotis pilosus</i>	107.44	33.73
<i>Myotis pilosus</i>	107.57	29.17
<i>Myotis pilosus</i>	107.75	31.19
<i>Myotis pilosus</i>	109.89	18.85
<i>Myotis pilosus</i>	109.93	32.63
<i>Myotis pilosus</i>	110.27	20.01
<i>Myotis pilosus</i>	110.36	25.29
<i>Myotis pilosus</i>	110.95	19.65
<i>Myotis pilosus</i>	111.33	25.30
<i>Myotis pilosus</i>	111.42	33.30
<i>Myotis pilosus</i>	111.96	22.47
<i>Myotis pilosus</i>	114.12	23.65
<i>Myotis pilosus</i>	114.57	29.16
<i>Myotis pilosus</i>	115.73	27.23
<i>Myotis pilosus</i>	115.73	39.71
<i>Myotis pilosus</i>	116.55	31.47
<i>Myotis pilosus</i>	116.94	36.44
<i>Myotis pilosus</i>	117.40	40.05
<i>Myotis pilosus</i>	117.67	36.6
<i>Myotis pilosus</i>	117.69	28.21
<i>Myotis pilosus</i>	117.70	29.39
<i>Myotis pilosus</i>	117.94	27.63
<i>Myotis pilosus</i>	118.28	28.46
<i>Myotis pilosus</i>	120.03	30.12
<i>Myotis pilosus</i>	120.62	31.31

Table S2 Analysis of variable contributions for the current suitable habitats of *M. pilosus*.

Variable	Percent contribution	Permutation importance
Bio6	19.3	51.3
TREE	10.6	4.5
Slope	9.5	7
Bio12	8.9	0
Landuse	8.2	1.9
Bio14	8	0.2
Bio16	7.4	1.4
Light	7	3.6
Bio17	6.8	0
Bio18	2.7	1.1
Dis_riv	2	5.8
Bio15	1.8	5.4
Aspect	1.6	0.1
Dis_set	1.1	3.8
Bio1	0.9	1.5
Altitude	0.8	5.5
NDVI	0.6	3.3
Bio13	0.5	1.2
Bio19	0.5	0.3
Bio2	0.4	0.2
Bio4	0.4	0.1
Dis_roa	0.3	0.6
Hii	0.2	1.1
Bio9	0.2	0
Bio7	0	0
Bio8	0	0

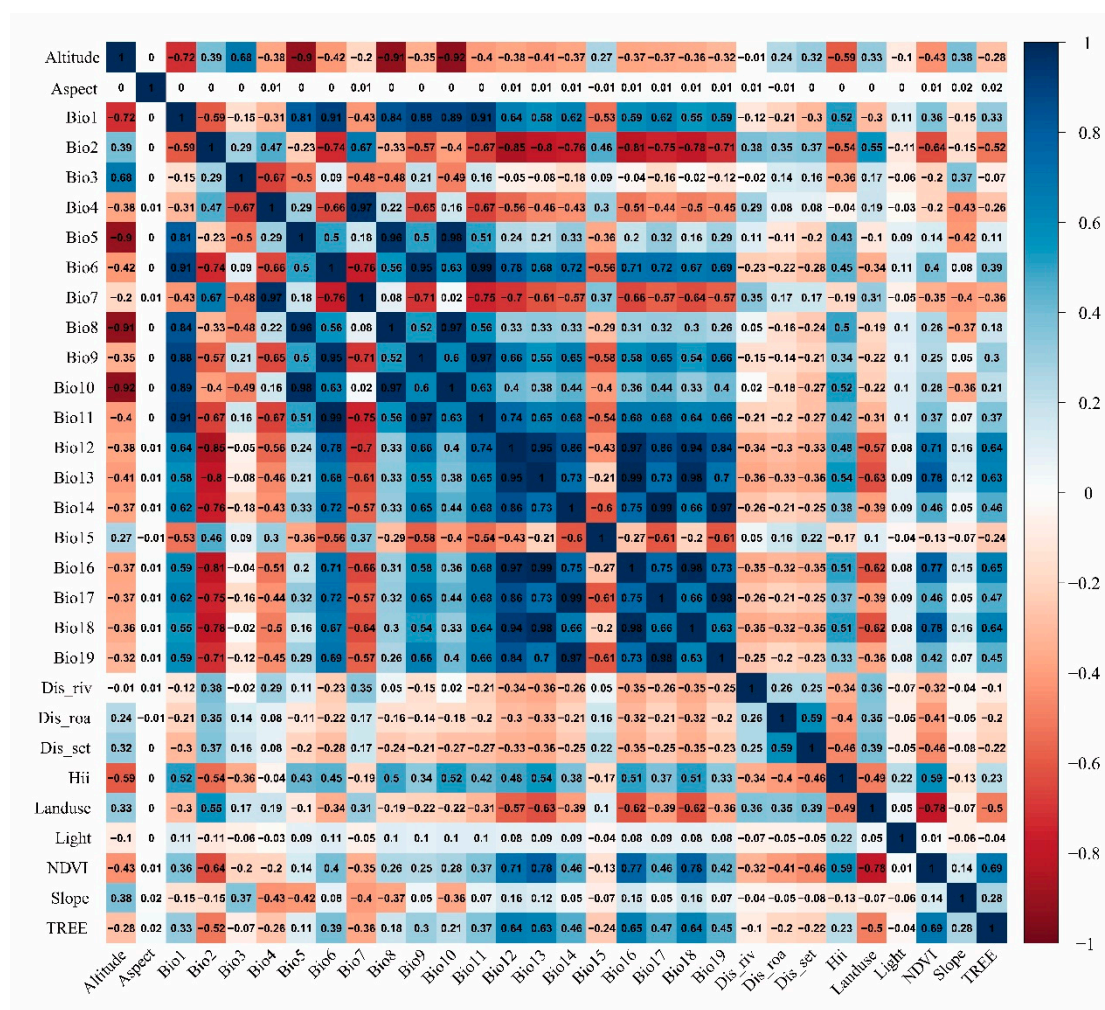


Figure S1 Correlation analysis based on 30 environmental variables.

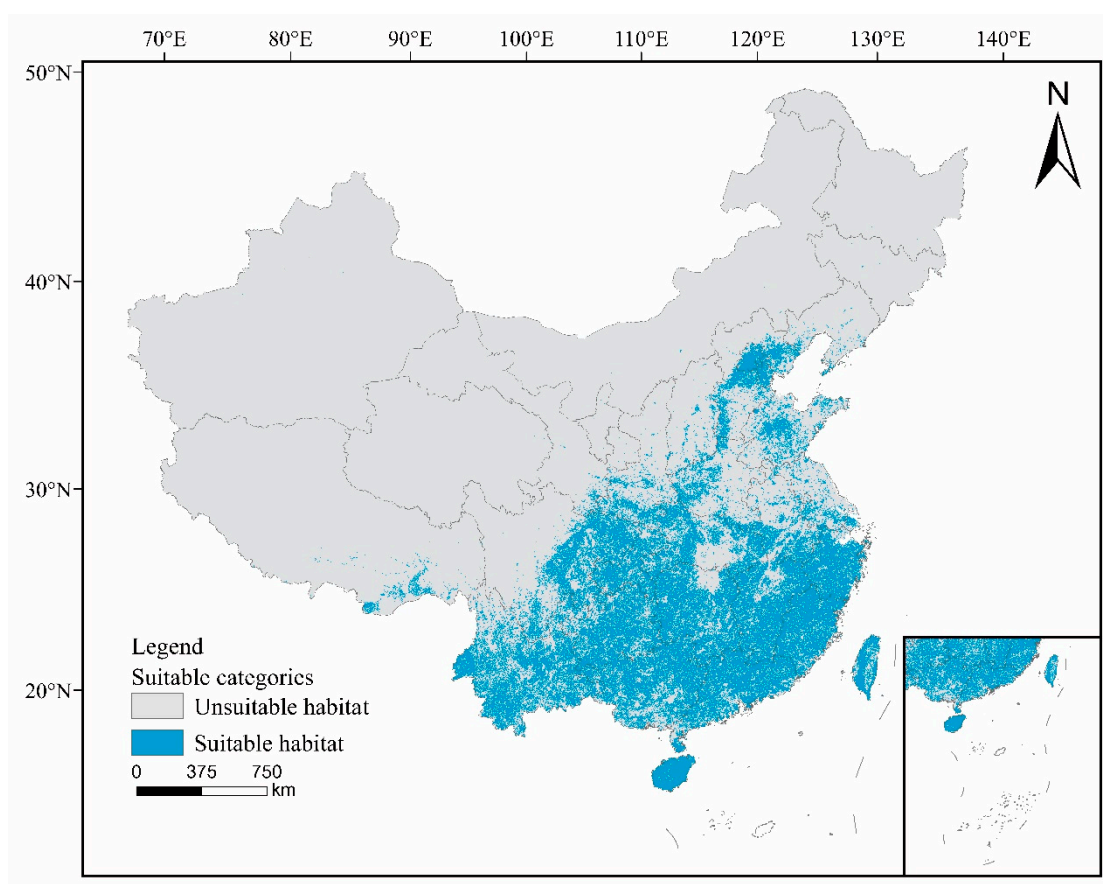


Figure S2 Distribution pattern of *M. pilosus* under current climate scenario.

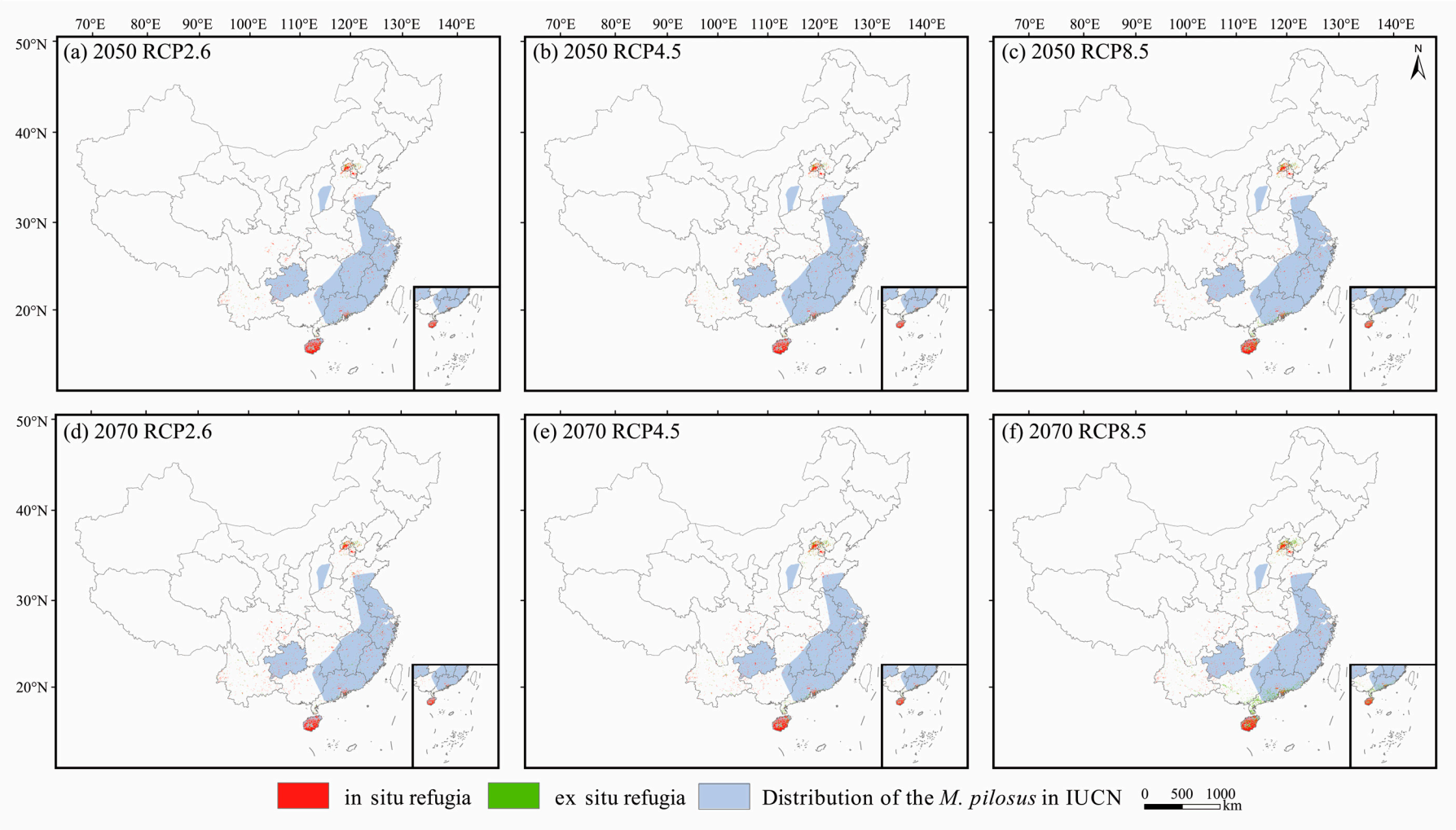


Figure S3 Distribution of in situ and ex situ refugia for *M. pilosus* under different climate scenarios.