

## 附录1 鸟类分布模型模拟结果统计

### Appendix 1 Statistical results of bird distribution model

物种 Species	受试者曲线下面积 Area under the curve (AUC)	分布区面积 Distribution area (km <sup>2</sup> )		变化比例 Change proportion	
		2000	2015		
灰胸竹鸡	<i>Bambusicola thoracicus</i>	0.91	46.58	29.75	-36.14%
小鹀	<i>Tachybaptus ruficollis</i>	0.88	65.81	80.41	22.18%
珠颈斑鸠	<i>Streptopelia chinensis</i>	0.87	81.31	88.74	9.14%
小白腰雨燕	<i>Apus nipalensis</i>	0.84	80.37	83.96	4.46%
褐翅鸦鹃	<i>Centropus sinensis</i>	0.93	94.89	111.03	17.00%
小鸦鹃	<i>Centropus bengalensis</i>	0.89	98.35	91.75	-6.71%
红翅凤头鹃	<i>Clamator coromandus</i>	0.92	51.87	33.86	-34.71%
噪鹛	<i>Eudynamys scolopaceus</i>	0.87	75.54	86.47	14.47%
八声杜鹃	<i>Cacomantis merulinus</i>	0.78	100.48	90.94	-9.49%
乌鹃	<i>Surniculus lugubris</i>	0.96	41.30	23.75	-42.50%
普通鹰鹃	<i>Hierococcyx varius</i>	0.93	46.94	48.20	2.68%
白胸苦恶鸟	<i>Amaurornis phoenicurus</i>	0.85	93.35	91.47	-2.02%
黑水鸡	<i>Gallinula chloropus</i>	0.87	66.74	85.23	27.70%
矶鹬	<i>Actitis hypoleucos</i>	0.95	36.66	38.47	4.95%
黄斑苇鳽	<i>Ixobrychus sinensis</i>	0.92	147.00	177.34	20.64%
栗苇鳽	<i>Ixobrychus cinnamomeus</i>	0.87	74.57	78.24	4.92%
夜鹭	<i>Nycticorax nycticorax</i>	0.94	46.76	69.65	48.95%
池鹭	<i>Ardeola bacchus</i>	0.90	101.28	111.05	9.64%
牛背鹭	<i>Bubulcus ibis</i>	0.92	47.27	80.05	69.33%
苍鹭	<i>Ardea cinerea</i>	0.95	21.68	33.22	53.27%
大白鹭	<i>Ardea alba</i>	0.95	38.07	45.54	19.63%
白鹭	<i>Egretta garzetta</i>	0.93	54.20	68.24	25.91%
黑鸢	<i>Milvus migrans</i>	0.88	55.93	66.47	18.84%
普通鵟	<i>Buteo japonicus</i>	0.90	46.06	45.63	-0.94%
普通翠鸟	<i>Alcedo atthis</i>	0.89	80.26	98.42	22.63%
斑鱼狗	<i>Ceryle rudis</i>	0.93	26.56	38.00	43.08%
大拟啄木鸟	<i>Psilopogon virens</i>	0.96	38.03	30.62	-19.47%
灰喉山椒鸟	<i>Pericrocotus solaris</i>	0.81	84.15	86.59	2.89%
赤红山椒鸟	<i>Pericrocotus flammeus</i>	0.92	156.40	175.59	12.27%
黑卷尾	<i>Dicrurus macrocercus</i>	0.89	69.86	80.37	15.04%
棕背伯劳	<i>Lanius schach</i>	0.84	95.29	97.40	2.22%
红嘴蓝鹊	<i>Urocissa erythrorhyncha</i>	0.80	95.80	93.14	-2.78%
灰树鹊	<i>Dendrocitta formosae</i>	0.97	29.18	23.82	-18.37%
大山雀	<i>Parus cinereus</i>	0.84	93.73	108.14	15.38%
棕扇尾莺	<i>Cisticola juncidis</i>	0.94	41.32	41.34	0.05%
黄腹山鹪莺	<i>Prinia flaviventris</i>	0.90	156.40	175.59	12.27%
纯色山鹪莺	<i>Prinia inornata</i>	0.81	87.98	96.35	9.52%
长尾缝叶莺	<i>Orthotomus sutorius</i>	0.82	97.52	110.97	13.79%
小鳞胸鹪鹛	<i>Pnoepyga pusilla</i>	0.95	42.02	44.30	5.43%

物种 Species	受试者曲线下面积 Area under the curve (AUC)	分布区面积 Distribution area (km <sup>2</sup> )		变化比例 Change proportion
		2000	2015	
家燕	<i>Hirundo rustica</i>	0.86	75.16	75.54 0.51%
金腰燕	<i>Cecropis daurica</i>	0.89	114.36	89.10 -22.09%
红耳鹎	<i>Pycnonotus jocosus</i>	0.85	108.47	122.79 13.21%
白头鹎	<i>Pycnonotus sinensis</i>	0.81	86.49	103.44 19.61%
白喉红臀鹎	<i>Pycnonotus aurigaster</i>	0.85	87.72	96.92 10.49%
栗背短脚鹎	<i>Hemixos castanonotus</i>	0.93	23.46	28.03 19.51%
黑短脚鹎	<i>Hypsipetes leucocephalus</i>	0.97	25.62	18.40 -28.18%
褐柳莺	<i>Phylloscopus fuscatus</i>	0.84	82.92	84.99 2.50%
黄腰柳莺	<i>Phylloscopus proregulus</i>	0.89	49.28	60.98 23.74%
黄眉柳莺	<i>Phylloscopus inornatus</i>	0.95	22.97	22.73 -1.07%
栗头织叶莺	<i>Phyllergates cucullatus</i>	0.85	107.84	127.31 18.06%
强脚树莺	<i>Horornis fortipes</i>	0.92	66.34	79.04 19.13%
红头长尾山雀	<i>Aegithalos concinnus</i>	0.84	74.28	81.27 9.41%
栗耳凤鹛	<i>Yuhina castaniceps</i>	0.90	17.65	10.80 -38.80%
暗绿绣眼鸟	<i>Zosterops japonicus</i>	0.86	84.43	98.01 16.09%
棕颈钩嘴鹛	<i>Pomatorhinus ruficollis</i>	0.90	75.38	73.62 -2.34%
红头穗鹛	<i>Cyanoderma ruficeps</i>	0.93	51.57	50.45 -2.17%
灰眶雀鹛	<i>Alcippe morrisonia</i>	0.94	44.97	48.80 8.53%
画眉	<i>Garrulax canorus</i>	0.87	67.64	79.50 17.53%
黑脸噪鹛	<i>Garrulax perspicillatus</i>	0.87	82.52	75.82 -8.11%
黑领噪鹛	<i>Garrulax pectoralis</i>	0.94	37.93	34.27 -9.66%
黑喉噪鹛	<i>Garrulax chinensis</i>	0.85	57.63	57.92 0.49%
白颊噪鹛	<i>Garrulax sannio</i>	0.83	84.82	55.67 -34.37%
八哥	<i>Acridotheres cristatellus</i>	0.88	78.99	75.67 -4.20%
丝光椋鸟	<i>Spodiopsar sericeus</i>	0.91	79.18	73.65 -6.98%
黑领椋鸟	<i>Gracupica nigricollis</i>	0.90	74.18	80.22 8.14%
乌鸫	<i>Turdus mandarinus</i>	0.92	53.13	52.90 -0.43%
白喉短翅鸫	<i>Brachypteryx leucophrys</i>	0.95	51.98	51.46 -1.00%
鹟	<i>Copsychus saularis</i>	0.84	95.88	98.13 2.35%
北红尾鸲	<i>Phoenicurus auroreus</i>	0.89	81.00	76.12 -6.02%
紫啸鹟	<i>Myophonus caeruleus</i>	0.90	64.38	54.78 -14.92%
白额燕尾	<i>Enicurus leschenaulti</i>	0.96	34.67	24.36 -29.73%
黑喉石鵖	<i>Saxicola maurus</i>	0.89	72.39	64.94 -10.30%
红胸啄花鸟	<i>Dicaeum ignipectus</i>	0.97	25.33	28.06 10.77%
叉尾太阳鸟	<i>Aethopyga christinae</i>	0.86	80.80	91.15 12.80%
白腰文鸟	<i>Lonchura striata</i>	0.83	84.79	86.22 1.68%
斑文鸟	<i>Lonchura punctulata</i>	0.86	93.05	102.20 9.83%
麻雀	<i>Passer montanus</i>	0.87	85.52	84.77 -0.88%
灰鹡鸰	<i>Motacilla cinerea</i>	0.80	97.58	103.34 5.91%
白鹡鸰	<i>Motacilla alba</i>	0.85	90.48	100.36 10.91%
田鹨	<i>Anthus richardi</i>	0.95	27.92	27.09 -2.97%

物种 Species	受试者曲线下面积 Area under the curve (AUC)	分布区面积 Distribution area (km <sup>2</sup> )		变化比例 Change proportion
		2000	2015	
树鹨 <i>Anthus hodgsoni</i>	0.86	97.74	101.85	4.21%
灰头鹀 <i>Emberiza spodocephala</i>	0.84	57.20	37.63	-34.22%