

Table S1 Scientific classification and IUCN category of the 134 amphibian species analyzed. CR: critically endangered; DD: data deficient; EN: endangered; LC: least concern; NE: not evaluated; NT: near threatened; VU: vulnerable.

Species	Family	Order	IUCN category
<i>Andrias davidianus</i>	Cryptobranchidae	Caudata	CR
<i>Batrachuperus cochranae</i>	Hynobiidae	Caudata	VU
<i>Batrachuperus londongensis</i>	Hynobiidae	Caudata	EN
<i>Batrachuperus pinchonii</i>	Hynobiidae	Caudata	VU
<i>Batrachuperus tibetanus</i>	Hynobiidae	Caudata	VU
<i>Batrachuperus yenyuanensis</i>	Hynobiidae	Caudata	VU
<i>Hynobius chinensis</i>	Hynobiidae	Caudata	EN
<i>Hynobius leechii</i>	Hynobiidae	Caudata	LC
<i>Cynops cyanurus</i>	Salamandridae	Caudata	LC
<i>Cynops orientalis</i>	Salamandridae	Caudata	LC
<i>Pachytriton brevipes</i>	Salamandridae	Caudata	LC
<i>Pachytriton labiatus</i>	Salamandridae	Caudata	LC
<i>Paramesotriton caudopunctatus</i>	Salamandridae	Caudata	NT
<i>Paramesotriton chinensis</i>	Salamandridae	Caudata	LC
<i>Tylototriton asperrimus</i>	Salamandridae	Caudata	NT
<i>Tylototriton kweichowensis</i>	Salamandridae	Caudata	VU
<i>Tylototriton shanjing</i>	Salamandridae	Caudata	NT
<i>Tylototriton taliangensis</i>	Salamandridae	Caudata	NT
<i>Tylototriton verrucosus</i>	Salamandridae	Caudata	LC
<i>Tylototriton wenxianensis</i>	Salamandridae	Caudata	VU
<i>Bombina fortinuptialis</i>	Bombinatoridae	Anura	NE
<i>Bombina maxima</i>	Bombinatoridae	Anura	NE
<i>Bombina microdeladigitora</i>	Bombinatoridae	Anura	NE
<i>Bufo gargarizans</i>	Bufo	Anura	LC
<i>Bufo melanostictus</i>	Bufo	Anura	LC
<i>Bufo pewzowi</i>	Bufo	Anura	NE
<i>Bufo tibetanus</i>	Bufo	Anura	LC
<i>Bufo tuberculatus</i>	Bufo	Anura	NT
<i>Strauchbufo raddei</i>	Bufo	Anura	LC
<i>Fejervarya limnocharis</i>	Dicroglossidae	Anura	LC
<i>Fejervarya multistriata</i>	Dicroglossidae	Anura	DD
<i>Fejervarya quadranus</i>	Dicroglossidae	Anura	NE
<i>Hoplobatrachus chinensis</i>	Dicroglossidae	Anura	NE

<i>Limnonectes fragilis</i>	Dicroglossidae	Anura	VU
<i>Limnonectes kuhlii</i>	Dicroglossidae	Anura	LC
<i>Nanorana liui</i>	Dicroglossidae	Anura	VU
<i>Nanorana parkeri</i>	Dicroglossidae	Anura	LC
<i>Nanorana pleskei</i>	Dicroglossidae	Anura	NT
<i>Nanorana yunnanensis</i>	Dicroglossidae	Anura	EN
<i>Occidozyga lima</i>	Dicroglossidae	Anura	LC
<i>Quasipaa boulengeri</i>	Dicroglossidae	Anura	EN
<i>Quasipaa exilispinosa</i>	Dicroglossidae	Anura	VU
<i>Quasipaa robertingeri</i>	Dicroglossidae	Anura	EN
<i>Quasipaa shini</i>	Dicroglossidae	Anura	VU
<i>Gynandropaa sichuanensis</i>	Dicroglossidae	Anura	NE
<i>Quasipaa spinosa</i>	Dicroglossidae	Anura	VU
<i>Hyla chinensis</i>	Hylidae	Anura	LC
<i>Hyla gonshanensis</i>	Hylidae	Anura	NE
<i>Hyla japonica</i>	Hylidae	Anura	LC
<i>Hyla sanchiangensis</i>	Hylidae	Anura	LC
<i>Hyla simplex</i>	Hylidae	Anura	LC
<i>Hyla tsinlingensis</i>	Hylidae	Anura	LC
<i>Megophrys boettgeri</i>	Megophryidae	Anura	DD
<i>Megophrys daweimontis</i>	Megophryidae	Anura	NE
<i>Megophrys huangshanensis</i>	Megophryidae	Anura	DD
<i>Megophrys jingdongensis</i>	Megophryidae	Anura	LC
<i>Megophrys major</i>	Megophryidae	Anura	LC
<i>Megophrys mangshanensis</i>	Megophryidae	Anura	NE
<i>Megophrys minor</i>	Megophryidae	Anura	LC
<i>Megophrys omeimontis</i>	Megophryidae	Anura	LC
<i>Megophrys wuliangshanensis</i>	Megophryidae	Anura	NE
<i>Megophrys wushanensis</i>	Megophryidae	Anura	NE
<i>Leptobrachium boringii</i>	Megophryidae	Anura	EN
<i>Leptobrachium leishanensis</i>	Megophryidae	Anura	EN
<i>Leptobrachium jiulongshanensis</i>	Megophryidae	Anura	NE
<i>Leptolalax oshanensis</i>	Megophryidae	Anura	LC
<i>Leptolalax pelodytoides</i>	Megophryidae	Anura	LC
<i>Oreolalax lichuanensis</i>	Megophryidae	Anura	NT
<i>Oreolalax major</i>	Megophryidae	Anura	VU
<i>Oreolalax pingii</i>	Megophryidae	Anura	EN
<i>Oreolalax popei</i>	Megophryidae	Anura	LC
<i>Oreolalax rhodostigmatus</i>	Megophryidae	Anura	VU

<i>Oreolalax rugosus</i>	Megophryidae	Anura	NT
<i>Oreolalax schmidti</i>	Megophryidae	Anura	NT
<i>Scutiger boulengeri</i>	Megophryidae	Anura	LC
<i>Scutiger glandulatus</i>	Megophryidae	Anura	LC
<i>Scutiger mammatus</i>	Megophryidae	Anura	LC
<i>Scutiger nyingchiensis</i>	Megophryidae	Anura	LC
<i>Scutiger tuberculatus</i>	Megophryidae	Anura	VU
<i>Calluella yunnanensis</i>	Microhylidae	Anura	LC
<i>Kaloula interlineatus</i>	Microhylidae	Anura	NE
<i>Kaloula pulchra</i>	Microhylidae	Anura	LC
<i>Microhyla butleri</i>	Microhylidae	Anura	LC
<i>Microhyla heymonsii</i>	Microhylidae	Anura	LC
<i>Microhyla mixtura</i>	Microhylidae	Anura	LC
<i>Microhyla ornata</i>	Microhylidae	Anura	LC
<i>Microhyla pulchra</i>	Microhylidae	Anura	LC
<i>Kaloula rugifera</i>	Microhylidae	Anura	LC
<i>Kaloula verrucosa</i>	Microhylidae	Anura	LC
<i>Amolops chunganensis</i>	Ranidae	Anura	LC
<i>Amolops granulatus</i>	Ranidae	Anura	LC
<i>Amolops hainanensis</i>	Ranidae	Anura	EN
<i>Amolops lifanensis</i>	Ranidae	Anura	NT
<i>Amolops loloensis</i>	Ranidae	Anura	VU
<i>Amolops mantzorum</i>	Ranidae	Anura	LC
<i>Amolops ricketti</i>	Ranidae	Anura	LC
<i>Amolops torrentis</i>	Ranidae	Anura	VU
<i>Amolops viridimaculatus</i>	Ranidae	Anura	NT
<i>Amolops wuyiensis</i>	Ranidae	Anura	LC
<i>Hylarana cubitalis</i>	Ranidae	Anura	LC
<i>Hylarana guentheri</i>	Ranidae	Anura	LC
<i>Hylarana latouchii</i>	Ranidae	Anura	LC
<i>Hylarana macrodactyla</i>	Ranidae	Anura	LC
<i>Hylarana nigrotympanica</i>	Ranidae	Anura	LC
<i>Hylarana nigrovittata</i>	Ranidae	Anura	LC
<i>Hylarana spinulosa</i>	Ranidae	Anura	VU
<i>Hylarana taipehensis</i>	Ranidae	Anura	LC
<i>Odorrana andersonii</i>	Ranidae	Anura	LC
<i>Odorrana grahami</i>	Ranidae	Anura	NT
<i>Odorrana graminea</i>	Ranidae	Anura	DD
<i>Odorrana hainanensis</i>	Ranidae	Anura	VU

<i>Odorrana margaretae</i>	Ranidae	Anura	LC
<i>Odorrana schmackeri</i>	Ranidae	Anura	LC
<i>Odorrana versabilis</i>	Ranidae	Anura	LC
<i>Pelophylax fukienensis</i>	Ranidae	Anura	LC
<i>Pelophylax hubeiensis</i>	Ranidae	Anura	LC
<i>Pelophylax nigromaculatus</i>	Ranidae	Anura	NT
<i>Pelophylax plancyi</i>	Ranidae	Anura	LC
<i>Pseudorana weiningensis</i>	Ranidae	Anura	VU
<i>Rana adenopleura</i>	Ranidae	Anura	LC
<i>Rana amurensis</i>	Ranidae	Anura	LC
<i>Rana chaochiaensis</i>	Ranidae	Anura	LC
<i>Rana chensinensis</i>	Ranidae	Anura	LC
<i>Rana omeimontis</i>	Ranidae	Anura	LC
<i>Buergeria oxycephala</i>	Rhacophoridae	Anura	VU
<i>Polypedates megacephalus</i>	Rhacophoridae	Anura	LC
<i>Rhacophorus chenfui</i>	Rhacophoridae	Anura	LC
<i>Rhacophorus dennysi</i>	Rhacophoridae	Anura	LC
<i>Rhacophorus dugritei</i>	Rhacophoridae	Anura	LC
<i>Rhacophorus gongshanensis</i>	Rhacophoridae	Anura	NT
<i>Rhacophorus hungfuensis</i>	Rhacophoridae	Anura	DD
<i>Rhacophorus nigropunctatus</i>	Rhacophoridae	Anura	NT
<i>Rhacophorus omeimontis</i>	Rhacophoridae	Anura	LC
<i>Rhacophorus rhodopus</i>	Rhacophoridae	Anura	LC

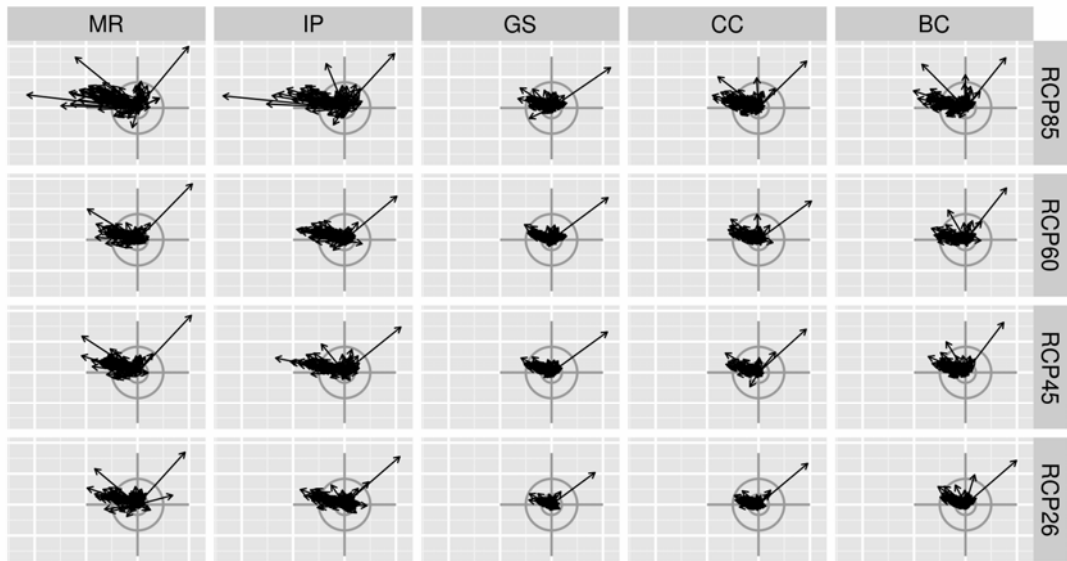


Figure S1 Species movement under different AOGCM models and RCP in the 2050s. Y axis presents different AOGCM models. X axis presents different RCP models. The arrow and wind rose are same with Figure 1.

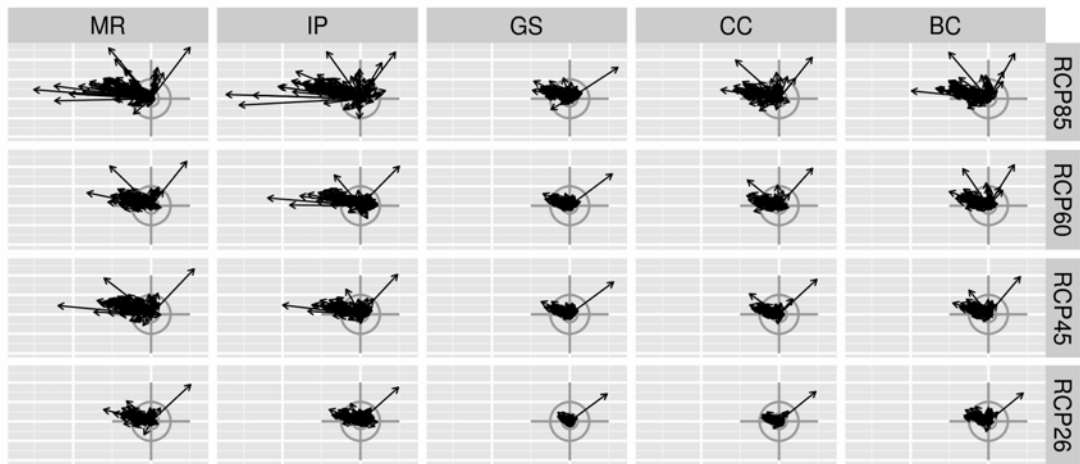


Figure S2 Species movement under different AOGCM models and RCP in the 2070s. Y axis presents different AOGCM models. X axis presents different RCP models. The arrow and wind rose are same with Figure 1.

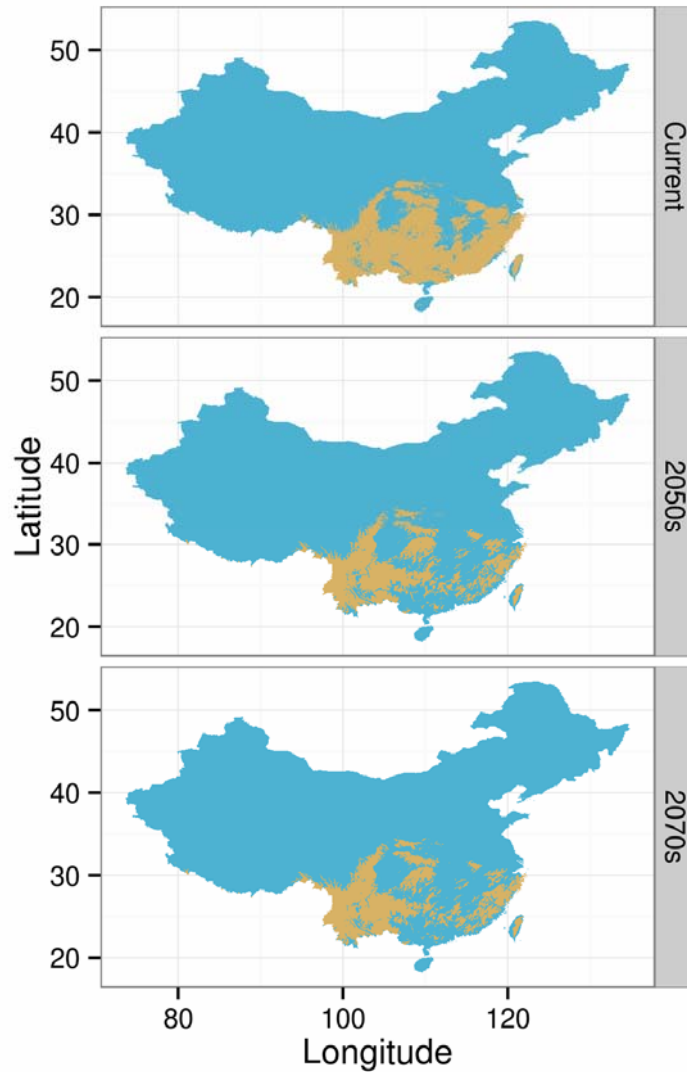


Figure S3 Distribution change under climate change using *Megophrys major* as an example. The figure was generated using R (<http://www.R-project.org/>), ggplot2 (<http://had.co.nz/ggplot2/boo>) and raster (<http://CRAN.R-project.org/package=raster>) softwares, and the maps were created using data downloaded from the GADM database (<http://www.gadm.org/>) for free use.