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# 中国两栖、爬行动物更新名录

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**摘要:** 本文在2015年发表的爬行动物名录及同年《中国两栖类信息系统》发布的两栖动物名录的基础上, 通过整理新发表的分类学研究及先前名录遗漏的部分早期文献, 更新了截至2019年底中国现生本土两栖、爬行动物种名录。2015–2019年间, 中国两栖动物新记录1科, 新描述2属, 恢复1属有效性, 新记录1属, 新描述或恢复有效种74种, 新增国家纪录18种; 另6属、8种的有效性未得到近年研究证据支持(在此视为次定同物异名而未做收录, 后同)。同期, 中国爬行动物新恢复5科, 新描述1亚科, 新描述1属, 恢复3属有效性, 新记录3属, 新描述、恢复或提升有效种43个, 新增国家纪录10种; 另有5属、4种的有效性未得到近年研究证据支持, 并移除1属、4种在我国的分布纪录。此外, 通过整理2015年前文献, 爬行动物增补3属, 提升3亚种至种级地位, 增补国家新纪录3种, 另有3属、2种的有效性未得到近年研究证据支持, 同时移除1种在我国的分布纪录。综上, 截至2019年底, 我国共记录现生本土两栖动物3目13科62属515种(蜥蜴目1科1属1种, 有尾目3科14属82种, 无尾目9科47属431种), 爬行动物3目35科135属511种(鳄形目1科1属1种, 龟鳖目6科18属34种, 有鳞目蛇亚目18科73属265种、蜥蜴亚目10科43属211种)。此外, 本文还对先前名录中部分爬行动物的中文名提出了修改建议, 建议恢复部分物种的惯用中文名。2015–2019年, 新物种及新纪录已知物种数量占现两栖、爬行动物种总数的17.1%和10.2%。近年来, 我国发表的两栖、爬行动物新物种和已知物种的新纪录数量持续增加, 分类体系也在研究中不断完善, 建议今后及时地进行阶段性总结, 同时对存在的问题提出讨论, 以推动中国两栖、爬行动物分类学研究工作的进一步开展。

**关键词:** 两栖动物; 爬行动物; 生物多样性; 新物种; 名录; 分类学; 分类变动

## The updated checklists of amphibians and reptiles of China

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**Abstract:** We updated the checklists of extant, native amphibians and reptiles of China based on the previously published checklist of reptiles in 2015, the online checklist of amphibians on the database AmphibiaChina, newly published data as of December 2019, and previously uncollected literature prior to 2015. In total, the amphibian fauna of China consists of 515 species in 62 genera, 13 families, and three orders (Anura: 431 species in 47 genera and nine families; Caudata: 82 species in 14 genera and four

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families; Gymnophiona: one species in one genus and one family), while the reptilian fauna of China consists of 511 species in 135 genera, 35 families, and three orders (Crocodylia: one species in one genus and one family; Testudines: 34 species in 18 genera and six families; Squamata 466 species in 116 genera and 28 families [Serpentes: 256 species in 73 genera, 18 families; Lacertilia: 211 species in 43 genera and 10 families]). Specifically, for amphibians between 2015 and 2019, one family was recorded from China for the first time, two new genera were described, a genus was resurrected, a genus was recorded from China for the first time, 74 new, valid species were either described or resurrected, 18 recognized species were recorded from China for the first time, and six genera and eight species were considered as junior synonyms. For reptiles between 2015 and 2019, five subfamilies were elevated to the full family status, one new subfamily and a new genus were described, three genera were resurrected, three recognized genera were recorded from China for the first time, 35 new species were described, two species were resurrected from synonyms, six subspecies were elevated to the full species status, 10 recognized species were recorded from China for the first time, four genera and four species were considered as junior synonyms, and distribution records of one genus and four recognized species were removed from China. Furthermore, by reviewing literature before 2015, we make additional changes on the previous reptile checklist, including adding new records of three genera, elevating three subspecies to full species status, adding new records of three recognized species, synonymizing three genera and two species as junior synonyms, and removing the distribution record of a single recognized species from China. Lastly, we revise the Chinese common names of some reptilian groups with recommendations to maintain the stability of the Chinese common names. The number of new species and new national records for amphibians and reptiles between 2015 and 2019 in China accounts for 17.1% and 10.2% of the total number of species in each group, respectively. Because new species are described at considerable speed and given the constant changes in the taxonomy of China's herpetofauna, it is crucial to update the checklists regularly and discuss the existing taxonomic problems, so that such information reflects the most current state of knowledge and are available for taxonomic researchers and conservation biologists alike.

**Key words:** amphibians; biodiversity; fauna checklist; reptiles; new species; taxonomy; taxonomic revisions

物种名录是进行生物多样性研究、保护、利用以及管理的重要基础资料。近年来研究技术手段不断提高,特别是随着整合分类学的发展,以形态学为主导构建的传统生物分类体系得以不断修订和完善;同时,新物种被不断发现并描述,而已知物种的分布和生态数据也得以不断更新。因此,依据最新分类学文献,整理并及时更新我国生物多样性编目,就显得尤为重要。

长期以来,两栖、爬行动物分类研究一直是我国分类学研究工作的重要组成部分。基于前期研究,我国学者出版了国家层面的两栖、爬行动物学系统性专著(如张孟闻等, 1998; 赵尔宓等, 1998, 1999; 赵尔宓, 2006; 费梁等, 2006, 2012)和一系列省、市及区域性的著作。这些著作为我国两栖、爬行动物多样性编目奠定了重要基础。基于研究发展的需要,费梁等(1990)对中国两栖动物名录进行了修订,随后赵尔宓等(2000)对中国两栖、爬行动物名录进行了更新。近期,蔡波等(2015)再次更新了我国爬行动物名录,而该研究结果被中国生物物种名录数据库所采纳并沿用(Ji et al., 2019)。自2015年以来,中国科

学院昆明动物研究所在线数据库的方式对中国两栖动物信息进行实时更新(<https://www.amphibiachina.org>),并在线发布年度性分类研究总结报告(王剀和蒋珂, 2016; 王剀和陈宏满, 2017; 王剀等, 2018c, 2019b)。

考虑到近期分类研究进展迅速,在上述工作的基础上,本文梳理并更新了截至2019年底我国现生本土两栖、爬行动物分类变更情况,更新了两大类群的物种名录。希望通过讨论现存分类学问题来推动我国两栖、爬行动物分类研究工作的进一步开展,并帮助生物多样性保护、管理部门及时掌握相关类群的物种名录及分类变更情况。

## 1 方法

以蔡波等(2015)和中国两栖类信息系统2015年名录(<http://www.amphibiachina.org/site/amplist/2015.xlsx>)为基础,结合最近5年的年度性分类研究汇报报告(王剀和蒋珂, 2016; 王剀和陈宏满, 2017; 王剀等, 2018, 2019a)和截至2019年底的分类学研究结果,整理形成中国现生本土两栖、爬行动物种名录。

对于两栖动物,“中国两栖类信息系统”已经对主要分类体系(Frost, 2015; AmphibiaWeb, 2015)的异同进行了比较,本文不再赘述。

对于西藏南部边境地区的物种,由于缺乏系统调查研究,物种分类及分布存在不确定性,因此对除2015–2019年间描述、且模式产地在我国领土范围内的新物种进行收录外,对以往中文文献中未记录的其他已知物种,本文暂未进行增补收录。

物种学名依据国际动物物种命名法规相关规定(条款11.7, 11.8, 31.2, 50.3.2; International Commission on Zoological Nomenclature, 1999)和已发表的相关文献研究综合修订。新分类阶元的中文名以原文献提供信息为主;若原文献未给出中文名,则综合考虑学名拉丁文词源本意及分类系统稳定性进行拟定。对于近期发生分类变动的物种中文名,则结合以往中文文献内名称的使用习惯(赵尔宓等, 1993, 1999; 张孟闻等, 1998; 赵尔宓, 2004, 2006; 费梁等, 2006, 2012)、近期分类文献建议及拉丁文词源本意(Jaeger, 1965)提出修改建议。

## 2 结果

### 2.1 两栖动物分类变更

#### 2.1.1 2015–2019年分类变更

2015–2019年间,我国两栖动物高级分类阶元新记录1科,即亚洲角蛙科(Ceratobatrachidae) (Yan F et al, 2016)。Yan F等(2016)依据多基因片段开展的分子系统学研究结果显示舌突蛙属(*Liurana*)嵌于亚洲角蛙科内部,因此将舌突蛙属由浮蛙科(Occidozygidae)转移至亚洲角蛙科,而亚洲角蛙科也代表了该科在我国的首次记录。该科在我国目前仅知1属,即舌突蛙属,分布于我国西藏南部。

新描述2属,即棱鼻树蛙属(*Nasutixalus*) (Jiang et al, 2016c)和张树蛙属(*Zhangixalus*) (Jiang DC et al, 2019)。Jiang等(2016c)依据线粒体片段的分子系统学结果,同时结合形态学差异,命名1新属,即棱鼻树蛙属。该属目前已知三种,其中两种分布于我国(西藏南部和云南西南部) (Yang & Chan, 2018)。Jiang DC等(2019)在线粒体分子系统学研究基础上,结合形态学和生物地理分布情况,将原树蛙属(*Rhacophorus*)拆分为3属,即狭义树蛙属(*Rhacophorus sensu stricto*) (主要分布于南亚、东南亚及我国西南地区)、恢复有效性的瘦树蛙属

(*Leptomantis*) (仅分布于东南亚)以及新命名的张树蛙属(主要分布于包括我国在内的东亚及中南半岛北部)。分类厘定后,我国原广义树蛙属(*Rhacophorus sensu lato*)物种中仅7种仍保留于狭义树蛙属,其余28种均改至张树蛙属,所涉及物种中文名保持不变(表1)。

恢复1属有效性,即琴蛙属(*Nidirana*) (Lyu et al, 2017)。结合线粒体基因片段的分子系统学、形态数据及求偶鸣叫特征, Lyu等(2017)揭示原广义拇指蛙属(*Babina sensu lato*)分为两大支系,其形态与鸣声均存在明显差异,故恢复拇指蛙属原次定同物异名琴蛙属的有效性,而我国原拇指蛙属物种遂改隶琴蛙属。综合考虑费梁等(2012)提出的形态学结论与Lyu等(2017)一致,本文采纳该分类观点。属级变动所涉及的物种中文名保持不变(表1)。

新记录1属,即南亚陆蛙属(*Minervarya*) (Sanchez et al, 2018)。依据多基因片段为基础的分子系统学研究, Sanchez等(2018)建议对广义陆蛙属(*Fejervarya sensu lato*)进行拆分,限定狭义陆蛙属(*Fejervarya sensu stricto*)为其模式种*F. limnocharis*所代表支系,同时恢复*Minervarya* (中文名拟定为“南亚陆蛙属”)的有效性。依据该研究,清迈陆蛙(*Fejervarya chiangmaiensis*)改隶至南亚陆蛙属。因此清迈陆蛙在我国的新纪录(Hui et al, 2019)也代表了南亚陆蛙属在我国的属级新纪录(表3)。

废除原掌突蟾属(*Leptolalax*)有效性,将其视为*Leptobrachella*的次定同物异名。依据多基因片段的分子系统学研究, Chen JM等(2018)构建了掌突蟾属及其近缘属的系统发育关系,结果显示掌突蟾属与*Leptobrachella*互不成单系;他们结合生物地理分布,对广义掌突蟾属进行了分类厘定。我国原*Leptolalax*属的所有物种遂划分至命名较早的*Leptobrachella*属,而该属级变动所涉及的属、种中文名均保持不变(表2)。

暂将无耳蟾属(*Atympanophrys*)、短腿蟾属(*Brachytarsophrys*)、拟角蟾属(*Ophryophryne*)、泛角蟾属(*Panophrys*)及异角蟾属(*Xenophrys*)视为角蟾属(*Megophrys*)的次定同物异名(表2)。基于多基因片段的分子系统学研究, Chen JM等(2017)研究表明广义角蟾属(*Megophrys sensu lato*)并非单系,拟角蟾属、短腿蟾属和婆罗蟾属(*Borneophrys*)均嵌入到角蟾属的内部;因此,上述作者提出两种分类建议:

**表1 两栖、爬行动物属级分类变动1:** 原属依旧有效，而原属内仅部分物种的属级分类需要厘定。原属、种中文名指蔡波等(2015)、《中国两栖类信息系统》或相关文献曾使用的中文名。“—”表示该项未有变动，与先前一致。其中琰肛树蛙(*Zhangixalus swildi*)及山地龙蜥(*Diploderma swildi*)在原始描述时已经考虑了本文接受的属级分类变动(Yu et al., 2019b; Wang K et al., 2019), 故在此未列出。

Table 1 Generic-level taxonomic changes for amphibians and reptiles of China between 2015 and 2019, part 1: the either previous genus still remains valid, and only some species of that genus experience taxonomic changes at the generic level. The former Chinese common names refer to the ones used in AmphibiaChina (2015), in the previous reptilian checklist by Cai et al. (2015), or in other related literature. “—” indicates no change occurs. For species of the referred genera, as the original descriptions of *Zhangixalus pachyproctus* and *Diploderma swildi* already adopted the taxonomic changes we discuss here (Yu et al., 2019b; Wang K et al., 2019f), hence they were not included in the table.

两栖动物 Amphibians						
原属学名 Previous genus name	原属中文名 Previous species name	原种中文名 Previous Chinese common name	原命名人引用格式 Previous authority	现属学名 Current genus name	现种学名 Revised Chinese common name	现属中文名 Revised Chinese common name
<i>Babina</i>	梅棘蛙属 <i>adenopleura</i>	弹琴蛙 <i>Babina adenopleura</i>	(Boettger, 1909)	<i>Nidirana</i>	麥蛙屬 <i>adenopleura</i>	—
			(Chang, 1933)		<i>Nidirana daunchina</i>	—
<i>Babina</i>	海南琴蛙 <i>hainanensis</i>	海南琴蛙 (Fei, Ye, and Jiang, 2007)			<i>Nidirana hainanensis</i>	—
<i>Babina lini</i>	林琴蛙 <i>okinawana</i>	琉球琴蛙 (Boettger, 1895)			<i>Nidirana lini</i>	—
<i>Babina pleuraden</i>	滇蛙 <i>fejervaryi</i>	—	Suwannapoom, Yuan, Poyarkov, Yan, Kamteja, Murphy, and Che, 2016	<i>Minervaryia</i>	南亚陆蛙属 <i>chiangmaiensis</i>	清迈陆蛙 (Suwannapoom, Yuan, Poyarkov, Yan, Kamteja, Murphy, and Che, 2016)
<i>Odorrana</i>	臭蛙属 <i>arunachalensis</i>	—	Saikia, Simha, and Kharkongor, 2017	<i>Nanorana</i>	倭蛙属 <i>arunachalensis</i>	藏南棘蛙 (Saikia, Simha, and Kharkongor, 2017)
<i>Rhacophorus</i>	树蛙属 <i>arralis</i>	普罗树蛙 <i>Rhacophorus arralis</i>	Lue, Lai, and Chen, 1995	<i>Zhangixalus</i>	张树蛙属 <i>arralis</i>	Qi et al., 2019a; 王凯等, 2018
					<i>Zhangixalus arvalis</i>	—
					<i>Zhangixalus aurantiventris</i>	(Lue, Lai, and Chen, 1995)
					<i>Zhangixalus burmanus</i>	(Lue, Lai, and Chen, 1994)
					<i>Zhangixalus chenfui</i>	(Liu, 1945)
					<i>Zhangixalus dennysi</i>	(Blanford, 1881)
					<i>Zhangixalus dorsoviridis</i>	(Bourret, 1937)
					<i>Zhangixalus duboisi</i>	(Ohler, Marquis, Swan, and Grosjean, 2000)

<i>Rhacophorus dugrizei</i>	宝兴树蛙	(David, 1871)	<i>Zhangixalus dugritae</i>	-
<i>Rhacophorus feae</i> 际褶树蛙	Boulenger, 1893		<i>Zhangixalus feae</i>	-
<i>Rhacophorus hongchibaensis</i>	巫溪树蛙	Li, Liu, Chen, Wu, Murphy, Zhao, Wang, and Zhang, 2012	<i>Zhangixalus hongchibaensis</i>	(Li, Liu, Chen, Wu, Murphy, Zhao, Wang, and Zhang, 2012)
<i>Rhacophorus hui</i> 胡氏树蛙	Liu, 1945		<i>Zhangixalus hui</i>	-
<i>Rhacophorus hungfienensis</i>	洪佛树蛙	Liu and Hu, 1961	<i>Zhangixalus hungfienensis</i>	(Liu and Hu, 1961)
<i>Rhacophorus leucofasciatus</i>	白线树蛙	Liu and Hu, 1962	<i>Zhangixalus leucofasciatus</i>	(Liu and Hu, 1962)
<i>Rhacophorus lishuiensis</i>	丽水树蛙	Liu, Wang, and Jiang, 2017	<i>Zhangixalus lishuiensis</i>	(Liu, Wang, and Jiang, 2017)
<i>Rhacophorus minimus</i>	侏树蛙	Rao, Wilkinson, and Liu, 2006	<i>Zhangixalus minimus</i>	(Rao, Wilkinson, and Liu, 2006)
<i>Rhacophorus moltrechti</i>	台湾树蛙	Boulenger, 1908	<i>Zhangixalus moltrechti</i>	(Boulenger, 1908)
<i>Rhacophorus nigropunctatus</i>	黑点树蛙	Liu, Hu, and Yang, 1962	<i>Zhangixalus nigropunctatus</i>	(Liu, Hu, and Yang, 1962)
<i>Rhacophorus omeimontis</i>	峨眉树蛙	(Stejneger, 1924)	<i>Zhangixalus omeimontis</i>	-
<i>Rhacophorus pinglongensis</i>	平龙树蛙	Mo, Chen, Liao, and Zhou, 2016	<i>Zhangixalus pinglongensis</i>	(Mo, Chen, Liao, and Zhou, 2016)
<i>Rhacophorus prasinatus</i>	翡翠树蛙	Mon, Risch, and Lue, 1983	<i>Zhangixalus prasinatus</i>	(Mon, Risch, and Lue, 1983)
<i>Rhacophorus puerensis</i>	普洱树蛙	(He, 1999)	<i>Zhangixalus puerensis</i>	-
<i>Rhacophorus smaragdinus</i>	白领大树蛙	(Blyth, 1852)	<i>Zhangixalus smaragdinus</i>	-
<i>Rhacophorus taipeiensis</i>	台北树蛙	Liang and Wang, 1978	<i>Zhangixalus taipeiensis</i>	(Liang and Wang, 1978)
<i>Rhacophorus wui</i>	利川树蛙	Li, Liu, Chen, Wu, Murphy, Zhao, Wang, and Zhang, 2012	<i>Zhangixalus wui</i>	(Li, Liu, Chen, Wu, Murphy, Zhao, Wang, and Zhang, 2012)
<i>Rhacophorus yaoshanensis</i>	瑶山树蛙	Liu and Hu, 1962	<i>Zhangixalus yaoshanensis</i>	(Liu and Hu, 1962)
<i>Rhacophorus yinggeelingensis</i>	鹦哥岭树蛙	Chou, Lau, and Chan, 2007	<i>Zhangixalus yinggeelingensis</i>	(Chou, Lau, and Chan, 2007)
<i>Rhacophorus zhonkaiyae</i>	安徽树蛙	Pan, Zhang, and Zhang, 2017	<i>Zhangixalus zhonkaiyae</i>	(Pan, Zhang, and Zhang, 2017)

表1(续) Table 1 (continued)

原属学名 Previous genus name	原属中文名 Previous Ch- inese common name	原种学名 Previous species name	原种中文名 Previous Ch- inese common name	现属学名 Current genus name	现属学名 Revised Ch- inese com- mon name	现属中文名 Current species name	现属中文名 Revised Chinese common name	现命名人引用格式 Current taxonomic authority	现命名人引用格式 Revised Chinese common name	参考文献 Reference
爬行动物 Reptiles										
<i>Japalura</i>	攀蜥属	<i>Japalura batangensis</i>	巴塘攀蜥 Wang, 2001	<i>Diploderma</i>	龙蜥属	<i>Diploderma batangense</i>	巴塘龙蜥	(Li, Deng, Wu, and Wang, 2001)	(Li, Deng, Wu, and Wang, 2001)	2019a
		<i>Japalura brevipes</i>	短肢攀蜥 Gressitt, 1936			<i>Diploderma brevipes</i>	短肢龙蜥	(Gressitt, 1936)		
		<i>Japalura brevicauda</i>	短尾攀蜥 Manthey, Denzer, Hou, and Wang, 2012			<i>Diploderma brevicaudum</i>	短尾龙蜥	(Manthey, Denzer, Hou, and Wang, 2012)		
		<i>Japalura drukdayo</i>	侏攀蜥 Wang, Ren, Jiang, Zou, Wu, Che, and Siler, 2019			<i>Diploderma drukdayo</i>	侏龙蜥	(Wang, Ren, Jiang, Zou, Wu, Che, and Siler, 2019)		
		<i>Japalura dyomondi</i>	裸耳攀蜥 (Boulenger, 1906)			<i>Diploderma dyomondi</i>	裸耳龙蜥	—		
		<i>Japalura flaviceps</i>	草绿攀蜥 Barbour and Dunn, 1919			<i>Diploderma flaviceps</i>	草绿龙蜥	(Barbour and Dunn, 1919)		
		<i>Japalura grahami</i>	宜宾攀蜥 Stejneger, 1924			<i>Diploderma grahami</i>	宜宾龙蜥	(Stejneger, 1924)		
		<i>Japalura luei</i>	宜兰攀蜥 Ota, Chen, and Shang, 1998			<i>Diploderma luei</i>	宜兰龙蜥	(Ota, Chen, and Shang, 1998)		
		<i>Japalura makii</i>	溪头攀蜥 Ota, 1989			<i>Diploderma makii</i>	溪头龙蜥	(Ota, 1989)		
		<i>Japalura micangshanensis</i>	米仓山攀蜥 Song, 1987			<i>Diploderma micangshanense</i>	米仓山龙蜥	(Song, 1987)		
		<i>Japalura polygonata</i>	琉球攀蜥 (Hallowell, 1860)			<i>Diploderma polygonatum</i>	琉球龙蜥	Hallowell, 1861		
		<i>Japalura splendida</i>	丽纹攀蜥 Barbour and Dunn, 1919			<i>Diploderma splendidum</i>	丽纹龙蜥	(Barbour and Dunn, 1919)		
		<i>Japalura swinhonis</i>	台湾攀蜥 Günther, 1864			<i>Diploderma swinhonis</i>	台湾龙蜥	(Günther, 1864)		
		<i>Japalura varcoae</i>	昆明攀蜥 (Boulenger, 1918)			<i>Diploderma varcoae</i>	昆明龙蜥	—		
		<i>Japalura vela</i>	帆背攀蜥 Wang, Jiang, Pan, Hou, Siler, and Che, 2015			<i>Diploderma vela</i>	帆背龙蜥	(Wang, Jiang, Pan, Hou, Siler, and Che, 2015)		

<i>Japalura yulongensis</i>	玉龙攀蜥 Manthey, Denzer, Hou, and Wang, 2012	<i>Diplodema yulongense</i> <i>Diplodema yunnanense</i>	玉龙龙蜥 (Manthey, Denzer, Hou, and Wang, 2012)
<i>Japalura yunnanensis</i>	云南攀蜥 Anderson, 1878	<i>Diplodema yunnanense</i>	云南龙蜥 (Anderson, 1878)
<i>Japalura zhaoermii</i>	汶川攀蜥 Gao and Hou, 2002	<i>Diplodema zhaoermii</i>	汶川龙蜥 (Gao and Hou, 2002)
<i>Japalura bapoensis</i>	独龙江攀蜥 (Yand and Su, 1978)	<i>Pseudocalotes kingdonwardi bapoensis</i>	拟树蜥属 西藏拟树蜥巴 坡亚种
<i>Opisthotropis</i> 后棱蛇属	<i>Opisthotropis praemaculatus</i>	<i>Paratapinophis praemaculatus</i>	副后棱蛇属 老挝副后棱蛇 Angel, 1929
<i>Opisthotropis</i>	横纹后棱蛇 (Cope, 1895)	<i>Trimerodryas balteata</i>	环游蛇属 横纹环游蛇 Cope, 1895
<i>Cyrtopodion</i> 弯脚虎属	<i>Cyrtopodion elongatum</i>	<i>Tenuidactylus elongatus</i>	细趾虎属 长细趾虎 —
<i>Cyrtopodion</i>	长弯脚虎 (Blanford, 1875)	<i>Tenuidactylus daudumensis</i>	<i>Tenuidactylus daudumensis</i> 大敦细趾虎 (Shi and Zhao, 2011)
<i>Rhabdops</i>	黄腹杆蛇属 <i>Rhabdops bicolor</i>	<i>Smithophis bicolor</i>	<i>Smithophis bicolor</i> —

即将广义角蟾属进行多属拆分, 或整体合并为单属。在多属拆分原则下, Chen JM等(2017)建议承认短腿蟾属和拟角蟾属的有效性, 同时将原广义的角蟾属划分为3个独立属, 即恢复分布于中国南方和中南半岛的无耳蟾属和异角蟾属, 将狭义角蟾属(*Megophrys* sensu stricto)限定于巽他古陆(Sundaland), 而婆罗蟾属则是狭义角蟾属的次定同物异名。随后, Mahony等(2017)依据不同的基因片段数据, 也构建了广义角蟾属的系统发育关系, 其结果同样支持广义角蟾属并非单系; 结合形态数据, Mahony等(2017)认为广义角蟾属中多个演化支系间没有足以支持属级分类的形态区别, 属于近期分化的类群, 因此建议单属的划分观点, 即将拟角蟾属、无耳蟾属、短腿蟾属、泛角蟾属和异角蟾属均降为亚属、并视为角蟾属的次定同物异名。考虑到目前在形态上较难对部分支系作出稳定区分, 综合单系性和分类可操作性原则, 本文暂采纳单属划分观点, 将分布于我国的短腿蟾属、无耳蟾属、拟角蟾属、异角蟾属及泛角蟾属降为亚属并视为角蟾属的次定同物异名, 但所有涉及的物种中文名均保持不变(见下文)。而由于属级分类变动, 原突肛拟角蟾(*Ophryophryne pachyproctus*)和凸肛角蟾(*Megophrys pachyproctus*)成为异物同名; 因此Mahony等(2017)遵从国际动物物种命名法第52.3, 57.3及60.3条关于优先权的规定, 将命名时间较晚的突肛拟角蟾的学名变更为*M. kouei*, 物种命名人信息也因此作出相应调整, 本文采纳其观点。

暂不接受近期关于水蛙属(*Hylarana*)的高阶元分类变动。Oliver等(2015)依据多基因片段的分子系统学研究构建了广义水蛙属的系统发育关系, 建议将其拆分为9个独立属。考虑到部分属的单系性并未得到较好解决, 为避免频繁不必要的变更, 本文在此暂保留原广义水蛙属单属的分类划分。

在种级分类阶元上, 共新发现描述或恢复两栖动物74种, 并新增18个已知种在我国的分布纪录(表4, 5)。新物种中, 有9种在本文中所采纳的属级分类地位与其原始描述不同(表1, 4); 其中, 除由于上述接受的属级分类变动而产生的变动外, 另将*Odorrana arunachalensis*移至倭蛙属(*Nanorana*) (Qi et al, 2019a), 即*Nanorana arunachalensis*, 中文名拟定为“藏南棘蛙”。

否定8种两栖动物的有效性。其中, 综合考虑分

**表2 两栖、爬行动物属级分类变动2:** 原属已无效, 整属均被厘定, 或原属内物种发生多项变动, 而我国物种仅涉及其中部分变动。原属、种中文名指蔡波等(2015)、《中国两栖类信息系统》或相关文献曾使用的中文名。“—”表示该项未有变动。其中, 五皇山掌突蟾(*Leptobrachella wuhuangmonis*)和云开掌突蟾(*L. yunkaiensis*)在原始描述时已经考虑了本文接受的属级分类变动(Wang J et al., 2018a), 故在此未列出。

Table 2 Generic-level taxonomic changes for amphibians and reptiles of China between 2015 and 2019, part 2: the previous genus became junior synonym, and changes for species from China represent all changes at the generic level for the genus; or the members of the previous genus became multiple genera, and the species from China only represent some of the revised genera. The former Chinese common names refer to the ones used in AmphibiaChina (2015), in the previous reptilian checklist by Cai et al. (2015), and in other related literature. “—” indicates no change occurs. For species of the referred genera, as *Leptobrachella wuhuangmonis* and *L. yunkaiensis* already adopted the taxonomic changes we discuss here (Wang J et al., 2018a), hence they were not included in the table.

原属学名 Previous genus name	原属中文名 Previous Chinese common name	原种学名 Previous species name	原种中文名 Previous Chinese common name	原命名人引用格式 Previous taxonomic authority		现属学名 Current genus name	现属中文名 Revised Chinese common name	现种学名 Current species name	现种中文名 Revised Chinese common name	现命名人引用格式 Reference	参考文献 Chen JM et al., 2018
				原命名人 Previous authority	现命名人 Current authority						
两栖动物 Amphibians											
<i>Leptolalax</i>	掌突蟾属	<i>Leptolalax alpina</i>	高山掌突蟾	Fei, Ye, and Li, 1990	<i>Leptobrachella</i>	—	<i>Leptobrachella</i>	—	(Fei, Ye, and Li, 1990)	Chen JM et al., 2018	
<i>Leptolalax laui</i>	刘氏掌突蟾	Sung, Yang, and Wang, 2014	—	<i>Leptobrachella laui</i>	—	<i>Leptobrachella</i>	—	(Sung, Yang, and Wang, 2014)			
<i>Leptolalax liui</i>	福建掌突蟾	Fei and Ye, 1990	—	<i>Leptobrachella liui</i>	—	<i>Leptobrachella</i>	—	(Fei and Ye, 1990)			
<i>Leptolalax mangshanensis</i>	莽山掌突蟾	Hou, Zhang, Hu, Li, Shi, Chen, Mo, and Wang, 2018	—	<i>Leptobrachella mangshanensis</i>	—	<i>Leptobrachella</i>	—	(Hou, Zhang, Hu, Li, Shi, Chen, Mo, and Wang, 2018)			
<i>Leptolalax maoershanensis</i>	猫儿山掌突蟾	Yuan, Sun, Chen, Rowley, and Che, 2017	—	<i>Leptobrachella maoershanensis</i>	—	<i>Leptobrachella</i>	—	(Yuan, Sun, Chen, Rowley, and Che, 2017)			
<i>Leptolalax osmanensis</i>	峨眉山掌突蟾	Liu, 1950	—	<i>Leptobrachella osmanensis</i>	—	<i>Leptobrachella</i>	—	(Liu, 1950)			
<i>Leptolalax pelodytoides</i>	蟹掌突蟾	Boulenger, 1893	—	<i>Leptobrachella pelodytoides</i>	—	<i>Leptobrachella</i>	—	(Boulenger, 1893)			
<i>Leptolalax purpura</i>	紫棕掌突蟾	Yang, Zeng, and Wang, 2018	—	<i>Leptobrachella purpura</i>	—	<i>Leptobrachella</i>	—	(Yang, Zeng, and Wang, 2018)			
<i>Leptolalax sungi</i>	三岛掌突蟾	Lathrop, Murphy, Orlov, and Ho, 1998	—	<i>Leptobrachella sungi</i>	—	<i>Leptobrachella</i>	—	(Lathrop, Murphy, Orlov, and Ho, 1998)			
<i>Leptolalax tengchongensis</i>	腾冲掌突蟾	Yang, Wang, Chen, and Rao, 2016	—	<i>Leptobrachella tengchongensis</i>	—	<i>Leptobrachella</i>	—	(Yang, Wang, Chen, and Rao, 2016)			
<i>Leptolalax venripunctata</i>	腹斑掌突蟾	Fei, Ye, and Li, 1990	—	<i>Leptobrachella venripunctata</i>	—	<i>Leptobrachella</i>	—	(Fei, Ye, and Li, 1990)			
<i>Leptolalax yingjiangensis</i>	盈江掌突蟾	Yang, Zeng, and Wang, 2018	—	<i>Leptobrachella yingjiangensis</i>	—	<i>Leptobrachella</i>	—	(Yang, Zeng, and Wang, 2018)			
<i>Atympanophrys</i>	无耳蟾属	<i>Atympanophrys gigantica</i>	大花角蟾	Liu, Hu, and Yang, 1960	<i>Megophrys</i>	角蟾属	<i>Megophrys gigantica</i>	—	(Liu, Hu, and Yang, 1960)	Chen JM et al., 2017;	
<i>Atympanophrys nankiangensis</i>	南江角蟾	Liu and Hu, 1966	—	<i>Megophrys nankiangensis</i>	—	<i>Megophrys</i>	—	(Liu and Hu, 1966)	Mahony et al., 2017		
<i>Atympanophrys shapingensis</i>	沙坪角蟾	Liu, 1950	—	<i>Megophrys shapingensis</i>	—	<i>Megophrys</i>	—	(Liu, 1950)			
<i>Atympanophrys wanwensis</i>	瓦屋角蟾	Fei, Jiang, and Zheng, 2001	—	<i>Megophrys wanwensis</i>	—	<i>Megophrys</i>	—	(Fei, Jiang, and Zheng, 2001)			

<i>Brachytarsophrys</i>	短腿蟾属	<i>Brachytarsophrys carinense</i>	宽头短腿蟾 (Boulenger, 1889)	<i>Megophrys carinense</i>	角蟾属	<i>Mesophrys carinense</i>	—	(Boulenger, 1889)	Chen JM et al, 2017;
<i>Brachytarsophrys chuananensis</i>		川南短腿蟾	Fei, Ye, and Huang, 2001	<i>Mesophrys chuananensis</i>		—	(Fei, Ye, and Huang, 2001)	—	Mahony et al, 2017
<i>Brachytarsophrys feae</i>	费氏短腿蟾	(Boulenger, 1887)	<i>Mesophrys feae</i>	—		Boulenger, 1887			
<i>Brachytarsophrys popei</i>	珀普短腿蟾	Zhao, Yang, Chen, Chen, and Wang, 2014	<i>Mesophrys popei</i>	—	(Zhao, Yang, Chen, Chen, and Wang, 2014)				
<i>Ophryophryne</i>	拟角蟾属	<i>Ophryophryne pachyproctus</i>	突肛拟角蟾 Kou, 1985	<i>Megophrys kouii</i>	—	Mahony, Foley, Biju, and Teeling, 2017			
		<i>Ophryophryne microstoma</i>	小口拟角蟾 Boulenger, 1903	<i>Megophrys microstoma</i>	—	(Boulenger, 1903)			
爬行动物 Reptiles									
<i>Oriocelotes</i>	异鳞蜥属	<i>Oriocelotes paulus</i>	异鳞蜥 Smith, 1935	<i>Calotes paulus</i>	树蜥属	<i>Calotes paulus</i>	—	(Smith, 1935)	Giri et al, 2019a
<i>Orthiophis</i>	晨蛇属	<i>Orthiophis taeniurus</i>	黑眉晨蛇 (Cope, 1861)	<i>Elaphe</i>	锦蛇属	<i>Elaphe taeniura</i>	黑眉锦蛇	—	Chen X et al, 2017
		<i>Orthiophis cantoris</i>	坎氏晨蛇 (Boulenger, 1894)			<i>Elaphe cantoris</i>	坎氏锦蛇	—	
		<i>Orthiophis hodgsonii</i>	南峰晨蛇 (Günther, 1860)			<i>Elaphe hodgsonii</i>	南峰锦蛇	—	
		<i>Orthiophis moellendorffi</i>	百花晨蛇 (Boettger, 1886)			<i>Elaphe moellendorffi</i>	百花锦蛇	—	
<i>Parahabrophis</i>	异纹蛇属	<i>Parahabrophis chapaensis</i>	—	<i>Bourret, 1934</i>	<i>Hebius chapaensis</i>	东亚腹链蛇属	<i>Hebius chapaensis</i>	沙坝腹链蛇 (Bourret, 1934)	Ren et al, 2018
<i>Rhynchosphis</i>	尖喙蛇属	<i>Rhynchosphis boulengeri</i>	尖喙蛇 Mocquard, 1897	<i>Gonyosoma frenatum</i>	树栖锦蛇属	<i>Gonyosoma frenatum</i>	—	(Mocquard, 1897)	Chen et al, 2014
<i>Rhadinophis</i>	绿蛇属	<i>Rhadinophis frenatus</i>	灰腹绿蛇 (Gray, 1853)						
		<i>Rhadinophis pasinius</i>	绿蛇 (Blyth, 1854)						
<i>Macropisthodon</i>	颈棱蛇属	<i>Macropisthodon rutilus</i>	颈棱蛇 Boulenger, 1906	<i>Pseudogastrophidion rutilus</i>	—	<i>Pseudogastrophidion rutilus</i>	—	(Boulenger, 1907)	Takeuchi et al, 2018
<i>Sinonatrix</i>	华游蛇属	<i>Sinonatrix annularis</i>	赤链华游蛇 (Hallowell, 1856)	<i>Trimerocephalus annularis</i>	环游蛇属	<i>Trimerocephalus annularis</i>	—	—	Ren et al, 2019
		<i>Sinonatrix aequifasciata</i>	环纹华游蛇 (Barbour, 1908)			<i>Trimerocephalus aequifasciatus</i>	—	—	
		<i>Sinonatrix percariata</i>	乌华游蛇 (Boulenger, 1899)			<i>Trimerocephalus percariatus</i>	—	—	
		<i>Sinonatrix yapingi</i>	景东华游蛇 Guo, Zhu, and Liu, 2019			<i>Trimerocephalus yapingi</i>	—	(Guo, Zhu, and Liu, 2019)	
		<i>Sinonatrix yunnanensis</i>	云南华游蛇 Rao and Yang, 1998			<i>Trimerocephalus yunnanensis</i>	—	(Rao and Yang, 1998)	

表3 2015–2019年两栖、爬行动物已知属在我国的新纪录

Table 3 New country records of recognized genera of amphibians and reptiles of China between 2015 and 2019

新纪录属中文名 Chinese common name	新纪录属学名 Scientific name	该属在我国新纪录代表物种 Representative species in China	文献 Reference
<b>两栖动物 Amphibians</b>			
南亚陆蛙属	<i>Minervarya</i>	清迈陆蛙 <i>Minervarya chiangmaiensis</i>	Hui et al, 2019
<b>爬行动物 Reptiles</b>			
伞虎属	<i>Ptychozoon</i>	版纳伞虎 <i>Ptychozoon bannaense</i>	Wang YY et al, 2016
扁头蛇属	<i>Platyceps</i>	红脊扁头蛇 <i>Platyceps rhodorachis</i>	郭克疾等, 2018
坡普蝮属	<i>Popeia</i>	坡普竹叶青蛇 <i>Popeia popeorum</i>	Guo P et al, 2015

表4 2015–2019年间描述或恢复有效性的中国两栖动物新物种。“Comb. nov.” 表示本文首次将该物种划归至现所在属; 命名人引用格式中的括号代表该物种在本文中采纳的属级分类与其原始描述不同。

Table 4 Newly described or resurrected species of amphibians from China between 2015 and 2019

年份 Year	中文名 Chinese common name	学名 Scientific name	命名人 Taxonomic authority	参考文献 Reference
2015	费氏刘树蛙	<i>Liuixalus feii</i>	Yang, Rao, and Wang, 2015	Yang et al, 2015
	十万大山刘树蛙	<i>Liuixalus shiwandashan</i>	Li, Mo, Jiang, Xie, and Jiang, 2015	Qin et al, 2015
	封开臭蛙	<i>Odorrana fengkaiensis</i>	Wang, Lau, Yang, Chen, Liu, Pang, and Liu, 2015	Wang YY et al, 2015
	荔浦臭蛙	<i>Odorrana lipuensis</i>	Mo, Chen, Wu, Zhang, and Zhou, 2015	Mo et al, 2015
2016	白刺湍蛙	<i>Amolops albispinus</i>	Sung, Wang, and Wang, 2016	Sung et al, 2016
	林芝湍蛙	<i>Amolops nytingchiensis</i>	Jiang, Wang, Xie, Jiang, and Che, 2016	Jiang et al, 2016a
	碧眼原指树蛙	<i>Kurixalus berylliniris</i>	Wu, Huang, Tsai, Li, Jhang, and Wu, 2016	Wu et al, 2016
	王氏原指树蛙	<i>Kurixalus wangii</i>	Wu, Huang, Tsai, Li, Jhang, and Wu, 2016	Wu et al, 2016
	腾冲掌突蟾	<i>Leptobrachella tengchongensis</i>	(Yang, Wang, Chen, and Rao, 2016)	Yang et al, 2016b
	腾冲拟髭蟾	<i>Leptobrachium tengchongense</i>	Yang, Wang, and Chan, 2016	Yang et al, 2016a
	陇川大头蛙	<i>Limnonectes longchuanensis</i>	Suwannapoom, Yuan, Chen, Sullivan, and McLeod, 2016	Suwannapoom et al, 2016
	墨脱棱鼻树蛙	<i>Nasutixalus medogensis</i>	Jiang, Wang, Yan, and Che, 2016	Jiang et al, 2016c
	吴氏肥螈	<i>Pachytriton wuguanfui</i>	Yuan, Zhang, and Che, 2016	Yuan et al, 2016c
	橙脊瘰螈	<i>Paramesotriton aurantius</i>	Yuan, Wu, Zhou, and Che, 2016	Yuan et al, 2016b
2017	平龙树蛙	<i>Zhangixalus pinglongensis</i>	(Mo, Chen, Liao, and Zhou, 2016)	Mo et al, 2016
	刺疣齿突蟾	<i>Scutiger spinosus</i>	Jiang, Wang, Li, and Che, 2016	Jiang et al, 2016c
	新都桥湍蛙	<i>Amolops xinduqiao</i>	Fei, Ye, Wang, and Jiang, 2017	Fei et al, 2017
	太田溪树蛙	<i>Buergeria otai</i>	Wang, Hsiao, Lee, Tseng, Lin, Komaki, and Lin, 2017	Wang Y et al, 2017
	井冈纤树蛙	<i>Gracixalus jinggangensis</i>	Zeng, Zhao, Chen, Chen, Zhang, and Wang, 2017	Zeng et al, 2017
	冷泉原指树蛙	<i>Kurixalus lenquanensis</i>	Yu, Wang, Hou, Rao, and Yang, 2017	Yu et al, 2017
	猫儿山掌突蟾	<i>Leptobrachella maoershanensis</i>	(Yuan, Sun, Chen, Rowley, and Che, 2017)	Yuan et al, 2017
	南澳島角蟾	<i>Megophrys insularis</i>	(Wang, Liu, Lyu, Zeng, and Wang, 2017)	Wang J et al, 2017
	荔波角蟾	<i>Megophrys liboensis</i>	(Zhang, Li, Xiao, Li, Pan, Wang, Zhang, and Zhou, 2017)	Zhang et al, 2017
	丽水角蟾	<i>Megophrys lishuiensis</i>	(Wang, Liu, and Jiang, 2017)	王聿帆等, 2017
2018	红股角蟾	<i>Megophrys rubrimera</i>	Tapley, Cutajar, Mahony, Chung, Dau, Nguyen, Luong, and Rowley, 2017	Tapley et al, 2017
	藏南棘蛙	<i>Nanorana arunachalensis</i>	(Saikia, Sinha, and Kharkongor, 2017)	Saikia et al, 2017; Qi et al, 2019a
	南昆山琴蛙	<i>Nidirana nankunensis</i>	Lyu, Zeng, Wang, Lin, Liu, and Wang, 2017	Lyu et al, 2017
	大别山林蛙	<i>Rana dabieshanensis</i>	Wang, Qian, Zhang, Guo, Pan, Wu, Wang, and Zhang, 2017	Wang CC et al, 2017
	栾川林蛙	<i>Rana luanchuanensis</i>	Zhao and Yuan, 2017	Zhao et al, 2017

表4(续) Table 4 (continued)

年份 Year	中文名 Chinese name	学名 common name	命名人 Scientific name	参考文献 Taxonomic authority	Reference
	丽水树蛙	<i>Zhangixalus lishuiensis</i>	(Liu, Wang and Jiang, 2017)	Liu et al, 2017	
	安徽树蛙	<i>Zhangixalus zhukaiyae</i>	(Pan, Zhang, and Zhang, 2017)	Pan et al, 2017	
	安徽疣螈	<i>Tylototriton anhuiensis</i>	Qian, Sun, Li, Guo, Pan, Kang, Wang, Jiang, Wu, and Zhang, 2017	Qian et al, 2017	
2018	文山湍蛙	<i>Amolops wenshanensis</i>	Yuan, Jin, Li, Stuart, and Wu, 2018	Yuan et al, 2018	
	云开湍蛙	<i>Amolops yunkaiensis</i>	Lyu, Wang, Liu, Zeng, and Wang, 2018	Lyu et al, 2018	
	广东纤树蛙	<i>Gracixalus guangdongensis</i>	Wang, Zeng, Lyu, Liu, and Wang, 2018	Wang J et al, 2018b	
	田林纤树蛙	<i>Gracixalus tianlinensis</i>	Chen, Bei, Liao, Zhou, and Mo, 2018	Chen WC et al, 2018	
	杨氏原指树蛙	<i>Kurixalus yangi</i>	Yu, Hui, Rao, and Yang, 2018	Yu et al, 2018	
	莽山掌突蟾	<i>Leptobrachella mangshanensis comb. nov.</i>	(Hou, Zhang, Hu, Li, Shi, Chen, Mo, and Wang, 2018)	Hou et al, 2018	
	紫棕掌突蟾	<i>Leptobrachella purpura comb. nov.</i>	(Yang, Zeng, and Wang, 2018)	Yang et al, 2018b	
	五皇山掌突蟾	<i>Leptobrachella wuhuangmontis</i>	Wang, Yang, and Wang, 2018	Wang J et al, 2018a	
	盈江掌突蟾	<i>Leptobrachella yingjiangensis comb. nov.</i>	(Yang, Zeng, and Wang, 2018)	Yang et al, 2018b	
	云开掌突蟾	<i>Leptobrachella yunkaiensis</i>	Wang, Li, Lyu, and Wang, 2018	Wang J et al, 2018a	
2019	费氏角蟾	<i>Megophrys feii</i>	Yang, Wang, and Wang, 2018	Yang et al, 2018a	
	雷山角蟾	<i>Megophrys leishanensis</i>	Li, Xu, Liu, Jiang, Wei, and Wang, 2018	Li SZ et al, 2018b	
	北仑姬蛙	<i>Microhyla beilunensis</i>	Zhang, Fei, Ye, Wang, Wang, and Jiang, 2018	Zhang et al, 2018	
	盈江棱鼻树蛙	<i>Nasutixalus yingjiangensis</i>	Yang and Chan, 2018	Yang & Chan, 2018	
	贵州臭蛙	<i>Odorrania kweichowensis</i>	Li, Xu, Lv, Jiang, Wei, and Wang, 2018	Li SZ et al, 2018a	
	南方肥螈	<i>Pachytriton airobranchiatus</i>	Li, Yuan, and Wu, 2018	Li C et al, 2018	
	孟定湍蛙	<i>Amolops mengdingensis</i>	Yu, Wu, and Yang, 2019	Yu et al, 2019d	
	陈塘湍蛙	<i>Amolops pallasitatus</i>	Qi, Zhou, Lyu, Lu, and Li, 2019	Qi et al, 2019b	
	水城湍蛙	<i>Amolops shuichengicus</i>	Lyu and Wang, 2019	Lyu et al, 2019c	
	中华湍蛙	<i>Amolops sinensis</i>	Lyu, Wang, and Wang, 2019	Lyu et al, 2019a	
	逸仙湍蛙	<i>Amolops yatseni</i>	Lyu, Wang, and Wang, 2019	Lyu et al, 2019a	
	华南大鲵	<i>Andrias sligoi</i>	(Boulenger, 1924)	Turvey et al, 2019	
	云南纤树蛙	<i>Gracixalus yunnanensis</i>	Yu, Hui, Wang, Rao, Wu, and Yang, 2019	Yu et al, 2019a	
	毕节掌突蟾	<i>Leptobrachella bijie</i>	Wang, Li, Li, Chen, and Wang, 2019	Wang J et al, 2019a	
	紫腹掌突蟾	<i>Leptobrachella purpuraventra</i>	Wang, Li, Li, Chen, and Wang, 2019	Wang J et al, 2019a	
	上思掌突蟾	<i>Leptobrachella shangsiensis</i>	Chen, Liao, Zhou, and Mo, 2019	Chen WC et al, 2019	
	河谷舌突蛙	<i>Liurana vallecula</i>	Jiang, Wang, Wang, Li, and Che, 2019	Jiang K et al, 2019	
	东莞角蟾	<i>Megophrys dongguanensis</i>	Wang and Wang, 2019	Wang J et al, 2019c	
	九连山角蟾	<i>Megophrys jiulianensis</i>	Wang, Zeng, Lyu, and Wang, 2019	Wang J et al, 2019c	
	幕阜山角蟾	<i>Megophrys mufumontana</i>	Wang, Lyu, and Wang, 2019	Wang J et al, 2019c	
	南昆山角蟾	<i>Megophrys nankunensis</i>	Wang, Zeng, and Wang, 2019	Wang J et al, 2019c	
	南岭角蟾	<i>Megophrys nanlingensis</i>	Lyu, Wang, Liu, and Wang, 2019	Wang J et al, 2019c	
	雨神角蟾	<i>Megophrys omphrophila</i>	Messenger and Dahn, 2019	Messenger et al, 2019	
	舜皇角蟾	<i>Megophrys shunhuangensis</i>	Wang, Deng, Liu, and Liu, 2019	Wang L et al, 2019	
	武功山角蟾	<i>Megophrys wugongensis</i>	Wang, Lyu, and Wang, 2019	Wang J et al, 2019c	
	梵净山姬蛙	<i>Microhyla fanjingshanensis</i>	Li, Zhang, Xu, Lv, Jiang, Liu, Wei, and Wang, 2019	Li SZ et al, 2019b	
	隆子棘蛙	<i>Nanorana zhaoermii</i>	Qi, Zhou, Lu, Li, Qin, Hou, Zhang, Ma, and Li, 2019	Qi et al, 2019a	
	雷山琴蛙	<i>Nidirana leishanensis</i>	Li, Wei, Xu, Cui, Fei, Jiang, Liu, and Wang, 2019	Li SZ et al, 2019a	
	瑶琴蛙	<i>Nidirana yaoica</i>	Lyu, Mo, Wan, Li, Pang, and Wang, 2019	Lyu et al, 2019b	
	沧源灌树蛙	<i>Raorchestes cangyuanensis</i>	Wu, Suwannapoom, Xu, Murphy, and Che, 2019	Wu et al, 2019	
	腾冲齿突蟾	<i>Scutiger tengchongensis</i>	Yang and Huang, 2019	Yang & Huang, 2019	
	突肛树蛙	<i>Zhangixalus pachyproctus</i>	Yu, Hui, Hou, Wu, Rao, and Yang, 2019	Yu et al, 2019b	

类单系原则及形态差异,否定以下6种的有效性:凉山湍蛙(*Amolops liangshanensis*)为棕点湍蛙(*A. loloensis*)的次定同物异名(Lyu et al, 2019c),广西棱皮树蛙(*Theloderma kwangsiense*)为北部湾棱皮树蛙(*T. corticale*)的次定同物异名(Hou et al, 2017),大围山疣螈(*Tylototriton daweishanensis*)为滇南疣螈(*T. yangi*)的次定同物异名(Nishikawa et al, 2015),*Nidirana caldwelli*为弹琴蛙(*N. adenopleura*)的次定同物异名(Lyu et al, 2017),金秀刘树蛙(*Liuixalus jinxiuensis*)为同年发表的费氏刘树蛙(*L. feii*)的次定同物异名

(Pham et al, 2018),河口水蛙(*Hylarana hekouensis*)和勐腊水蛙(*H. menglaensis*)为黑带水蛙(*H. nigrovittata*)的次定同物异名(Sheridan & Stuart, 2018)。此外,依据模式标本的形态学对比结果,将*Rhacophorus maximus*定为*R. smaragdinus*的次定同物异名(Ohler & Deuti, 2018),而其对应中文名则保留“白领大树蛙”(表6)。

## 2.2 爬行动物分类变更

### 2.2.1 2015–2019年间分类变更

依据分子系统学研究结果,我国爬行动物高级

**表5 2015–2019年间两栖动物已知物种在中国的新纪录及其分布。“—”表示无其他曾用中文名或同物异名。**

Table 5 New country records of recognized species of amphibians and their distribution in China between 2015 and 2019. “—” indicates no previously used Chinese common name or junior synonym.

现中文名 Revised Chinese common name	现学名 Scientific name	曾用中文名 Previously used Chinese common name	同物异名 Junior synonyms	我国分布地 Distribution in China	参考文献 Reference
克钦湍蛙	<i>Amolops afghanus</i>	—	<i>Amolops marmoratus</i>	云南(盈江)Yunnan (Yingjiang)	Yang 1991; Dever et al, 2012; Lyu et al, 2019c
布氏掌突蟾	<i>Leptobrachella bourreti</i>	—	<i>Leptolalax bourreti</i>	云南(文山、红河); 广西(桂林) Yunnan (Wenshan and Honghe); Guangxi (Guilin)	Chen JM et al, 2018
拂晓掌突蟾	<i>Leptobrachella eos</i>	—	<i>Leptolalax eos</i>	云南(西双版纳) Yunnan (Xishuangbanna)	Chen JM et al, 2018
夜神掌突蟾	<i>Leptobrachella nyx</i>	—	<i>Leptolalax nyx</i>	云南(文山) Yunnan (Wenshan)	Chen JM et al, 2018
波普拟髭蟾	<i>Leptobrachium bompu</i>	—	—	西藏(墨脱) Tibet (Medog)	Liang et al, 2017
泰诺大头蛙	<i>Limnonectes taylori</i>	—	—	云南(西双版纳) Yunnan (Xishuangbanna)	Suwannapoom et al, 2016
茅索角蟾	<i>Megophrys maosonensis</i>	—	<i>Xenophrys maosonensis</i>	云南(文山) Yunnan (Wenshan)	Chen JM et al, 2017
穆氏姬蛙	<i>Microhyla mukhlesuri</i>	—	—	云南(红河) Yunnan (Honghe)	Yuan et al, 2016a
清迈陆蛙	<i>Minervarya chiangmaiensis</i>	—	<i>Fejervarya chiangmaiensis</i>	云南(普洱) Yunnan (Puer)	Hui et al, 2019
罗斯坦棘蛙	<i>Nanorana rostandi</i>	—	<i>Paa rostandi, Rana rostandi, Chaparana rostandi</i>	西藏(吉隆) Tibet (Jilong)	蒋珂等, 2016
沙巴琴蛙	<i>Nidirana chapaensis</i>	—	<i>Hylarana chapaensis, Rana chapaensis</i>	云南(红河) Yunnan (Honghe)	Yuan et al, 2019
北圻臭蛙	<i>Odorrana bacboensis</i>	—	<i>Rana bacboensis, Huia bacboensis</i>	云南(河口); 广西(那坡) Yunnan (Hekou); Guangxi (Napo)	Wang YY et al, 2015
安子山臭蛙	<i>Odorrana yentuensis</i>	—	—	广西(十万大山) Guangxi (Shiwandashan)	卢琳琳等, 2016
德氏瘰螈	<i>Paramesotriton deloustali</i>	—	<i>Mesotriton deloustali, Pachytriton deloustali</i>	云南(红河) Yunnan (Honghe)	Zhang et al, 2018
侏灌树蛙	<i>Raorchestes parvulus</i>	—	<i>Ixalus parvulus, Rhacophorus parvulus, Philautus parvulus</i>	云南(西双版纳) Yunnan (Xishuangbanna)	Yu et al, 2019c
双色棱皮树蛙	<i>Theloderma bicolor</i>	—	<i>Rhacophorus leprosus bicolor</i>	云南(景东) Yunnan (Jingdong)	Hou et al, 2017
印支棱皮树蛙	<i>Theloderma gordoni</i>	—	—	云南(西双版纳) Yunnan (Xishuangbanna)	Qi et al, 2018
蔡氏疣螈	<i>Tylototriton ziegleri</i>	—	<i>Yaotriton ziegleri</i>	云南(文山) Yunnan (Wenshan)	Jiang et al, 2017

**表6 2015–2019年间中国两栖、爬行动物种级同物异名厘定。“原中文名”指蔡波等(2015)、《中国两栖类信息系统》或其他中文文献曾使用的中文名。“—”表示该项未有变动。**

Table 6 Species-level taxonomic changes for the amphibians and reptiles of China between 2015 and 2019. The former Chinese common names are the ones used in the previous reptilian checklist by Cai et al (2015) and other Chinese literature. “—” indicates no change.

原中文名 Chinese common name	原学名 Previous scientific name (junior synonym)	首定同物异名中文名 Chinese common name of the senior synonym	首定同物异名学名 Scientific name of the senior synonym of the senior synonym	参考文献 Reference
<b>两栖动物 Amphibians</b>				
金秀刘树蛙	<i>Liuixalus jinxiuensis</i>	费氏刘树蛙	<i>Liuixalus feii</i>	Pham et al, 2018
—	<i>Nidirana caldwelli</i>	弹琴蛙	<i>Nidirana adenopleura</i>	Lyu et al, 2017
白颌大树蛙	<i>Rhacophorus maximus</i>	—	<i>Zhangixalus smaragdinus</i>	Ohler & Deuti, 2018; Jiang DC et al, 2019
河口水蛙	<i>Hylarana hekouensis</i>	黑带水蛙	<i>Hylarana nigrovittata</i>	Sheridan & Stuart, 2018
勐腊水蛙	<i>Hylarana menglaensis</i>			
广西棱皮树蛙	<i>Theloderma kwangsiensis</i>	北部湾棱皮树蛙	<i>Theloderma corticale</i>	Hou et al, 2017
大围山疣螈	<i>Tyloctotriton daweishanensis</i>	滇南疣螈	<i>Tyloctotriton yangi</i>	Nishikawa et al, 2015
<b>爬行动物 Reptiles</b>				
四川龙蜥	<i>Diploderma szechwanense</i>	横纹龙蜥	<i>Diploderma fasciatum</i>	Ota, 2000
岩栖蝮	<i>Gloydius saxatilis</i>	中介蝮	<i>Gloydius intermedius</i>	Shi et al, 2016
独龙江攀蜥	<i>Japalura bapoensis</i>	西藏拟树蜥巴坡亚种	<i>Pseudocalotes kingdonwardi bapoensis</i>	Mahony, 2010; Wang K et al, 2019a
贵南沙蜥	<i>Phrynocephalus guinanensis</i>	贵德沙蜥	<i>Phrynocephalus putjatai</i>	Jin et al, 2014; Jin & Brown, 2019
云南颈斑蛇	<i>Plagiopholis unipostocularis</i>	颈斑蛇	<i>Plagiopholis blakewayi</i>	Zhong et al, 2015
越南巨蜥	<i>Varanus vietnamensis</i>	暗影巨蜥	<i>Varanus nebulosus</i>	Böhme & Ziegler, 1997; Böhme, 2003; 杨大同和饶定齐, 2008

分类阶元中游蛇科(Colubridae)内新增1亚科, 即瘦蛇亚科(Ahaetuliinae) (Figueroa et al, 2016), 我国分布的瘦蛇属(*Ahaetulla*)、金花蛇属(*Chrysopeltis*)和过树蛇属(*Dendrelaphis*)隶属于该亚科。

游蛇科下原有的5亚科提升至科, 包括两头蛇科(Calamariidae)、食螺蛇科(Dipsadidae)、水游蛇科(Natricidae)、斜鳞蛇科(Pseudoxenodontidae)与剑蛇科(Sibynophiidae)。受采样和可使用数据的限制, 游蛇科下各亚科的系统地位长期以来一直存在争议(Stejneger, 1907; Smith, 1943; Zaher et al, 2009; Wallach et al, 2014), 而我国学者历史上则并未强调对游蛇科下各亚科的划分(四川省生物研究所两栖爬行动物研究室, 1977; Zhao & Adler, 1993; 赵尔宓等, 1998; 赵尔宓, 2006; 蔡波等, 2015)。Zaher等(2019)基于分子系统学和形态学研究, 支持先前研究对游蛇科做出的分类建议(Zaher et al, 2009), 即将其所辖8个亚科中除游蛇亚科(Colubrinae)与瘦蛇亚科外的其他6个亚科上升为科级; 对于原游蛇科内仍无DNA分子数据的珠光蛇属(*Blythia*), 依据半

阴茎形态特征, Zaher等(2019)建议将其暂置于水游蛇科内。基于近期Zaher等(2019)和Burbrink等(2019)的研究结果, 本文暂采纳其观点。变更后, 我国原游蛇科下辖的40属现隶属于6科, 即两头蛇科(1属)、游蛇科(19属)、食螺蛇科(2属)、水游蛇科(15属)、斜鳞蛇科(2属)和剑蛇科(1属); 而变更后游蛇科内仅存2亚科, 即游蛇亚科与瘦蛇亚科。

新描述1属, 即*Smithophis*。Giri等(2019b)依据多基因片段的分子系统学研究指出, 黄腹杆蛇(*Rhabdops bicolor*)与该属模式种*R. oliveceus*不成单系, 加之两大支系间存在形态差异(如鼻间鳞和前额鳞数量), 因此提议将黄腹杆蛇所代表支系命名为一新属, 即*Smithophis*, 中文名则沿用“杆蛇属”(中文名变动详见下文)。由于厘定后我国已无真正的*Rhabdops*属物种分布, 故在此将*Rhabdops*从我国爬行动物名录中移除(表1)。

恢复爬行动物3属的有效性, 即龙蜥属(*Diploderma*) (Wang K et al, 2019a)、颈棱蛇属(*Pseudoagkistrodon*) (中文名变动见下文; Takeuchi et al, 2018)和环游蛇

属(*Trimerodytes*) (Ren et al, 2019)。基于多基因片段的分子系统学研究, Wang K等(2019a)支持原广义攀蜥属(*Japalura* sensu lato)并非单系(Macey et al, 2000; Pyron et al, 2013), 结合形态数据, 建议将广义攀蜥属拆分为4属, 其中3属有物种分布于我国: 长肢攀蜥(*J. andersoniana*)和三棱攀蜥(*J. tricarinata*)保留在狭义攀蜥属; 独龙江攀蜥(*J. bapoensis*)划至拟树蜥属(*Pseudocalotes*), 并暂恢复其亚种地位, 即西藏拟树蜥巴坡亚种(*P. kingdonwardi bapoensis*); 而中国境内其余物种被划归为恢复的龙蜥属; 伴随着属名词性变更, 我国龙蜥属部分物种的学名种加词也随之发生变动(王剀等, 2019b; 表2)。Takeuchi等(2018)研究显示, 原颈棱蛇属(*Macropisthodon*)并非单系, 其模式种(*M. flaviceps*)所代表的支系嵌于颈槽蛇属(*Rhabdophis*)内, 同时均具有颈腺; 而分布在我国的颈棱蛇(*M. rudis*)则代表了一个独立演化支系, 且缺乏颈腺。因此结合形态与分子系统学结果, Takeuchi等(2018)基于单系性原则, 将该类群重新厘定: 一方面, 恢复颈棱蛇所代表的演化支系的先占属名*Pseudoagkistrodon*, 而颈棱蛇学名因此变更为*Pseudoagkistrodon rudis* (其属、种中文名保持不变, 见下文); 另一方面, 废除*Macropisthodon*的有效性, 将其归并为颈槽蛇属的次定同物异名, 包括其模式种*M. flaviceps*在内的属内其余物种均归于颈槽蛇属。Ren等(2019)依据线粒体基因片段的分子系统学研究, 发现横纹后棱蛇(*Opishotropis balteata*)嵌于华游蛇属(*Sinonatrix*)中, 且与华游蛇属模式种赤链华游蛇(*S. annularis*)互为姐妹群, 致使华游蛇属与后棱蛇属(*Opishotropis*)互不成单系。由于横纹后棱蛇所代表的属级次定同物异名*Trimerodytes*的命名时间早于华游蛇属, 考虑到维护分类单系性原则和命名优先权, Ren等(2019)建议恢复*Trimerodytes*的有效性(中文名拟定为“环游蛇属”), 并将华游蛇属视为该属的次定同物异名(物种中文名变动见下文)(表1, 2)。

另外, 由于已知属的物种在我国的新分布纪录, 新增加3属在中国的纪录, 即扁头蛇属(*Platyceps*) (郭克疾等, 2018; 中文名变动见下文)、坡普蝮属(*Popeia*) (Guo P et al, 2015)和伞虎属(*Ptychozoon*) (Wang YY et al, 2016) (表3)。

除上述废除的原颈棱蛇属和华游蛇属, 另废除爬行动物3属的有效性, 包括晨蛇属(*Orthriophis*)、异

纹蛇属(*Pararhabdophis*)和异鳞蜥属(*Oriocalotes*)。Chen X等(2017)基于简化基因组的分子系统学研究表明, 晨蛇属嵌于狭义锦蛇属(*Elaphe* sensu stricto)内, 将晨蛇属视为狭义锦蛇属次定同物异名; 因此, 我国的坎氏晨蛇(*O. cantoris*)、南峰晨蛇(*O. hodgsonii*)、百花晨蛇(*O. moellendorffi*)和黑眉晨蛇(*O. taeniurus*)均改回至锦蛇属内(涉及物种的中文名变动见下文)。依据线粒体基因片段的分子系统学分析, Ren等(2018)研究表明异纹蛇属为东亚腹链蛇属(*Hebius*)的次定同物异名; 因此新记录于我国的*Pararhabdophis chapaensis*则改隶于东亚腹链蛇属, 中文名则拟定为“沙坝腹链蛇”。Giri等(2019a)利用多基因片段的分子系统学研究指出, 异鳞蜥属物种嵌于树蜥属(*Calotes*)内部, 故将异鳞蜥属视为树蜥属的次定同物异名(表2)。

暂不接受近期关于翠青蛇属(*Cyclophiops*)和异色蛇属(*Xenochrophis*)的高阶元分类变动(所涉及的异色蛇属中文名变动见下文)。Figueroa等(2016)的分子系统学研究表明翠青蛇属中翠青蛇(*C. major*)和横纹翠青蛇(*C. multicinctus*)嵌于鼠蛇属(*Ptyas*)物种所在支系中, 因此建议将翠青蛇属视为鼠蛇属的次定同物异名; 然而, 该研究结果并未包含翠青蛇属模式种纯绿翠青蛇(*C. doriae*), 其结论有待进一步研究, 因此本文暂未采纳其观点。Purkayastha和David (2018)研究表明异色蛇属的物种并非单系, 其中滇西蛇属(*Atretium*)模式种*Atretium schistosum*与部分颈槽蛇属物种均嵌于异色蛇属中; 结合部分形态学数据, Purkayastha和David(2018)建议将原异色蛇属中*X. piscator*, *X. asperimus*, *X. schnurrenbergeri*及*X. punctualatus*所代表的支系恢复为异色蛇属原次定同物异名*Fowlea* (模式种*X. punctualatus*), 而将异色蛇属限定为其模式种*X. cerasogaster*所代表的支系。然而, 由于滇西蛇属本身的分类存疑, 且大多数支系间的系统关系尚未得到解决。鉴于该类群的属级分类在将来极可能产生新的变动, 因此本文沿用蔡波等(2015)关于该类群的保守分类, 暂未采纳Purkayastha和David(2018)的分类。

在种级分类阶元上, 发现并描述爬行动物新物种35种(表7)。新物种中, 有4种在本文中所采纳的属级分类地位与其原始描述不同: 依据Denzer等(2019)以及王剀等(2019b), 将侏攀蜥(*Japalura drukdaypo*)改至龙蜥属, 即*Diploderma drukdaypo*, 而其中文名

**表7 2015–2019年间新描述或恢复有效性的中国爬行动物物种。“Comb. nov.” 表示本文首次将该物种划归至所在属; 命名人引用格式中的括号代表该物种在本文中采纳的属级分类与其原始描述不同。**

Table 7 Newly described or resurrected species of reptiles from China between 2015 and 2019

年份 Year	中文名 Chinese common name	学名 Scientific name	命名人 Taxonomic authority	参考文献 Reference
2015	帆背龙蜥	<i>Diploderma vela</i>	(Wang, Jiang, Pan, Hou, Siler, and Che, 2015)	Wang K et al, 2015
	广西壁虎	<i>Gekko kwangsiensis</i>	Yang, 2015	Yang, 2015
	嘉道理睑虎	<i>Goniurosaurus kadoorieorum</i>	Yang and Chan, 2015	Yang & Chan, 2015
	广西睑虎	<i>Goniurosaurus kwangsiensis</i>	Yang and Chan, 2015	Yang & Chan, 2015
	昌宁半叶趾虎	<i>Hemiphyllodactylus changningensis</i>	Guo, Zhou, Yan, and Li, 2015	Guo WB et al, 2015
	泰雅钝头蛇	<i>Pareas atayal</i>	You, Poyarkov, and Lin, 2015	You et al, 2015
	阿里山钝头蛇	<i>Pareas komaii</i>	(Maki, 1931)	You et al, 2015
2016	翡翠龙蜥	<i>Diploderma iadinum</i>	(Wang, Jiang, Siler, and Che, 2016)	Wang K et al, 2016
	滑腹龙蜥	<i>Diploderma laeviventre</i>	(Wang, Jiang, Siler, and Che, 2016)	Wang K et al, 2016
	龟山壁虎	<i>Gekko guishanicus</i>	Lin and Yao, 2016	Lin & Yao, 2016
	惠水半叶趾虎	<i>Hemiphyllodactylus huishuiensis</i>	Yan, Lin, Guo, Li, and Zhou, 2016	Yan J et al, 2016
	版纳伞虎	<i>Ptychozoon bannaense</i>	Wang, Wang, and Liu, 2016	Wang YY et al, 2016
2017	贡山龙蜥	<i>Diploderma slowinskii</i>	(Rao, Vindum, Ma, Fu, and Wilkinson, 2017)	Rao et al, 2017
	红斑高山蝮	<i>Gloydius rubromaculatus</i>	Shi, Li, and Liu, 2017	Shi et al, 2017
	深圳后棱蛇	<i>Opisthotropis shenzhenensis</i>	Wang, Guo, Liu, Lyu, Wang, Luo, Sun, and Zhang, 2017	Wang YY et al, 2017b
	赵氏后棱蛇	<i>Opisthotropis zhaoermii</i>	Ren, Wang, Jiang, Guo, and Li, 2017	Ren et al, 2017
	钓鱼岛石龙子	<i>Plestiodon takarai</i>	Kurita, Ota, and Hikida, 2017	Kurita et al, 2017a
	天井山草蜥	<i>Takydromus albomaculosus</i>	Wang, Gong, Liu, and Wang, 2017	Wang YY et al, 2017a
2018	贡山两头蛇	<i>Calamaria andersoni</i>	Yang and Zheng, 2018	Yang & Zheng, 2018
	若尔盖蝮	<i>Gloydius angusticeps</i>	Shi, Yang, Huang, Orlov, and Li, 2018	Shi et al, 2018
	周氏睑虎	<i>Goniurosaurus zhoui</i>	Zhou, Wang, Chen, and Liang, 2018	Zhou et al, 2018
	盐边腹链蛇	<i>Hebius yanbianensis</i>	Liu, Zhong, Wang, Liu, and Guo, 2018	Liu et al, 2018
	香港半叶趾虎	<i>Hemiphyllodactylus hongkongensis</i>	Sung, Lee, Ng, Zhang, and Yang, 2018	Sung et al, 2018
	海南四眼斑水龟	<i>Sacalia insulensis</i>	Adler, 1962	林柳等, 2018
	海南华珊瑚蛇	<i>Sinomicrurus houi</i>	Wang, Peng, and Huang, 2018	Peng et al, 2018
2019	铜壁关棘蜥	<i>Acanthosaura tongbiguanensis</i>	Liu and Rao, 2019	Liu & Rao, 2019
	云开脊蛇	<i>Achalinus yunkaiensis</i>	Wang, Li, Wang, 2019	Wang J et al, 2019b
	侏龙蜥	<i>Diploderma drukdaypo</i>	(Wang, Ren, Jiang, Zou, Wu, Che, Siler, 2019)	Wang K et al, 2019d
	山地龙蜥	<i>Diploderma swild</i>	Wang, Wu, Jiang, Chen, Miao, Siler, Che, 2019	Wang K et al, 2019f
	澜沧蝮	<i>Gloydius huangi</i>	Wang, Ren, Dong, Jiang, Siler, Che, 2019	Wang K et al, 2019e
	桑植腹链蛇	<i>Hebius sangzhiensis</i>	Zhou, Qi, Lu, Lyu, Li, 2019	Zhou et al, 2019
	云开草蜥	<i>Takydromus yunkaiensis</i>	Wang, Lyu, Wang, 2019	Wang J et al, 2019d
	盈江竹叶青	<i>Popeia yingjiangensis comb. nov.</i>	(Chen, Ding, Shi, Zhang, 2019)	Chen ZN et al, 2019
	景东华游蛇	<i>Trimerodrytes yapangi comb. nov.</i>	(Guo, Zhu, Liu, 2019)	Guo et al, 2019
	藏南竹叶青	<i>Himalayophis arunachalensis comb. nov.</i>	(Captain, Deepak, Pandit, Bhatt, Athreya, 2019)	Captain et al, 2019
	艾氏坭蛇	<i>Trachischium apteii</i>	Bhosale, Gowande, Mirza, 2019	Bhosale et al, 2019
	泪纹腹链蛇	<i>Hebius lacrima</i>	Purkayastha, David, 2019	Purkayastha & David, 2019

遵从王剀等(2019b)的建议, 改为“侏龙蜥”; Chen ZN等(2019)和Captain等(2019)在描述*Trimeresurus yingjiangensis*和*T. arunachalensis*时采纳的均是广义竹叶青属的单属划分体系, 而依据其分子系统学结果, *T. yingjiangensis*和*T. arunachalensis*分别与*Popeia sabahi*和西藏竹叶青蛇(*Himalayophis tibetanus*)聚为姐妹群, 因此在采纳广义竹叶青属多属划分的前提下, 本文将*T. yingjiangensis*和*T. arunachalensis*分别移至其姐妹种所在的坡普蝮属(*Popeia*)和喜山蝮属(*Himalayophis*), 两种的学名遂改为*Popeia yingjiangensis*和*Himalayophis arunachalensis*; 对于其中没有中文名的*H. arunachalensis*, 将其中文名拟定为“藏南竹叶青蛇”; Guo等(2019)描述景东华游蛇(*Sinonatrix yapingi*)的时间早于同年发表的关于华游蛇属的分类厘定(Ren et al, 2019), 而依据Guo等(2019)的分子数据, 景东华游蛇与华游蛇属模式种聚为一支, 因此在采纳Ren等(2019)关于华游蛇属分类厘定的前提下, 本文将景东华游蛇划归至环游蛇属, 学名改称*Trimerodrytes yapingi*, 而物种中文名遵从原始描述的指定保持不变。

恢复2种的有效性, 即阿里山钝头蛇(*Pareas komaii*) (You et al, 2015)和海南四眼斑龟(*Sacalia insulensis*) (林柳等, 2018)。提升6个亚种至种级水平: 将西伯利亚蝮阿拉善亚种(*Gloydius halys cognatus*)、西伯利亚蝮华北亚种(*G. h. stejnegeri*)、中介蝮长岛亚种(*G. intermedius changdaoensis*)、中华石龙子白斑亚种(*Plestiodon chinensis leucostictus*)、卡西裸趾虎察隅亚种(*Cyrtodactylus khasiensis cayuensis*)和快

步麻蜥东方亚种(*Eremias velox roborowskii*)提升至有效种, 分别为阿拉善蝮(*G. cognatus*)、华北蝮(*G. stejnegeri*)、长岛蝮(*G. changdaoensis*)、白斑石龙子(*P. leucostictus*)、察隅裸趾虎(*C. cayuensis*)和吐鲁番麻蜥(*E. roborowskii*) (史静耸等, 2016; Kurita et al, 2017b; Agarwal et al, 2018; Chirikova et al, 2019; Liu et al, 2019) (表8)。

此外, 新增加8种已知爬行动物在我国的分布纪录(表8); 同时, 移除4种爬行动物在我国的分布纪录, 即喜山攀蜥(*Japalura kumaonensis*)、绿背攀蜥(*J. sagittifera*)、卡西裸趾虎(*Cyrtodactylus khasiensis*)和双带腹链蛇(*Hebius parallelus*)。原记录于我国的喜山攀蜥为三棱攀蜥(*Japalura tricarinata*)的误定(Wang K et al, 2018a); 依据Kunte和Manthey (2009)的研究, 目前未有确切证据表明绿背攀蜥分布于我国境内, 故将蔡波等(2015)中记录的绿背攀蜥纪录移除; 原记录于我国西藏察隅的卡西裸趾虎察隅亚种已被升为独立种(Agarwal et al, 2018), 同时依据现有数据, 卡西裸趾虎仅分布于印度东北部的梅加拉亚邦(Meghalaya District), 故将其分布纪录移除; 而原记录于西藏南部和云南西南部的双带腹链蛇为克氏腹链蛇(*H. clerki*)的误定(David et al, 2015), 故将其纪录移除。

否定了4种爬行动物的有效性。结合基于线粒体片段的分子系统学研究及形态学比较, 将云南颈斑蛇(*Plagiopholis unipostocularis*)定为颈斑蛇(*Plagiopholis blakewayi*)的次定同物异名(Zhong et al, 2015); 支持原Orlov和Barabannov (2000)提出的观

表8 2015–2019年间由已知亚种提升而产生的爬行动物新物种

Table 8 The species that were elevated from recognized subspecies to the full species status between 2015 and 2019

原亚种中文名 Previous Chinese common name	原亚种学名 Previous scientific name of the subspecies	提升后物种中文名 Revised Chinese common name of the species	提升后物种学名 Current scientific name of the elevated species	文献 Reference
卡西裸趾虎察隅亚种	<i>Cyrtodactylus khasiensis cayuensis</i>	察隅裸趾虎	<i>Cyrtodactylus cayuensis</i>	Agarwal et al, 2018
快步麻蜥东方亚种	<i>Eremias velox roborowskii</i>	吐鲁番麻蜥	<i>Eremias roborowskii</i>	Chirikova et al, 2019
西伯利亚蝮阿拉善亚种	<i>Gloydius halys cognatus</i>	阿拉善蝮	<i>Gloydius cognatus</i>	史静耸等, 2016
西伯利亚蝮华北亚种	<i>Gloydius halys stejnegeri</i>	华北蝮	<i>Gloydius stejnegeri</i>	
中介蝮长岛亚种	<i>Gloydius intermedius changdaoensis</i>	长岛蝮	<i>Gloydius changdaoensis</i>	
云南半叶趾虎独山亚种	<i>Hemiphyllodactylus yunnanensis dushanensis</i>	独山半叶趾虎	<i>Hemiphyllodactylus dushanensis</i>	Grismer et al, 2013
云南半叶趾虎金平亚种	<i>Hemiphyllodactylus yunnanensis jinpingensis</i>	金平半叶趾虎	<i>Hemiphyllodactylus jinpingensis</i>	
云南半叶趾虎龙陵亚种	<i>Hemiphyllodactylus yunnanensis longlingensis</i>	龙陵半叶趾虎	<i>Hemiphyllodactylus longlingensis</i>	
中华石龙子白斑亚种	<i>Plestiodon chinensis leucostictus</i>	白斑石龙子	<i>Plestiodon leucostictus</i>	Kurita et al, 2017b

**表9 2015–2019年间中国爬行动物新纪录及其分布。“原中文名”指蔡波等(2015)或其他中文文献中曾经使用的中文名。“—”表示无其他曾用中文名或同物异名。**

Table 9 New country records of recognized species of reptiles and their distribution in China between 2015 and 2019. The former Chinese common names are the ones used in the previous reptilian checklist by Cai et al (2015) and other Chinese literature. “—” indicates no previously used Chinese common names or junior synonyms.

采纳中文名 Revised Chinese common name	采纳学名 Current scientific name	原中文名 Previous Chinese common name	同物异名 Junior synonym	我国分布地 Distribution in China	文献 Reference
马来环蛇	<i>Bungarus candidus</i>	—	<i>Coluber candidus</i> , <i>Bungarus semifasciatus</i>	云南、广西、广东 Yunnan, Guangxi, and Guangdong	Xie et al, 2018
银山过树蛇	<i>Dendrelaphis ngansonensis</i>	—	<i>Dendrelaphis bioga boiga</i>	海南、云南 Hainan and Yunnan	Pope, 1935; Nicodemo & Bain, 2007
沙坝龙蜥	<i>Diploderma chapaense</i>	—	<i>Japalura chapaensis</i>	云南绿春 Yunnan (Lüchun)	Wang K et al, 2018b
横纹龙蜥	<i>Diploderma fasciatum</i>	四川龙蜥	<i>Japalura fasciata</i> , <i>Japalura szechwanensis</i>	云南、四川、江西、广东、 湖南 Yunnan Sichuan, Jiangxi, Guangdong, and Hunan	Ota, 2000; 王剀等, 2019b
沙坝腹链蛇	<i>Hebius chapaensis</i>	沙坝异纹蛇	<i>Pararhabdophis chapaensis</i>	云南屏边 Yunnan (Pingbian)	Ren et al, 2018
克氏腹链蛇	<i>Hebius clerki</i>	—	<i>Amphiesma clerki</i>	云南盈江 Yunan (Yingjiang)	David et al, 2015
红脊扁头蛇	<i>Platyceps rhodorachis</i>	简氏红鞭蛇	<i>Coluber rhodorachis</i>	西藏阿里 Tibet (Ali)	郭克疾等, 2018
坡普竹叶青蛇	<i>Popeia popeorum</i>	坡普蝮	<i>Trimeresurus popeiorum</i> , <i>Popeia popeorum</i>	云南西双版纳 Yunnan (Xishuangbanna)	Guo P et al, 2015
混鳞蜥	<i>Pseudocalotes austeniana</i>	—	<i>Mictopholis austeniana</i>	西藏墨脱 Tibet (Medog)	Annandale, 1908; Athreya, 2006; Wang K et al, 2019b
耿氏泥蛇	<i>Trachischium guentheri</i>	—	—	西藏聂拉木 Tibet (Nielamu)	Wang K et al, 2019c
暗影巨蜥	<i>Varanus nebulosus</i>	越南巨蜥	<i>Varanus vietnamensis</i>	云南河口 Yunnan (Hekou)	饶定齐和杨大同, 1996; Böhme & Ziegler, 1997; Böhme, 2003

点, 将岩栖蝮(*Gloydius saxatilis*)定为中介蝮(*G. intermedius*)的次定同物异名(史静耸等, 2016); 支持原Mahony (2010)提出的观点, 将独龙江攀蜥定为西藏拟树蜥巴坡亚种的次定同物异名(Wang K et al, 2019a)。此外, 结合线粒体片段及简化基因组数据的分子系统学研究, 支持Jin等(2014)的观点, 将不成单系的贵南沙蜥(*Phrynocephalus guinanensis*)视为贵德沙蜥(*P. putjatai*)的次定同物异名(Jin & Brown, 2019) (表6)。

## 2.2.2 2015年前分类变动的增补

爬行动物高级分类阶元增补属级新纪录3个, 分别是树栖锦蛇属(*Gonyosoma*)、副后棱蛇属(*Paratapinophis*)及细趾虎属(*Tenuidactylus*)。Chen等(2014)依据多基因片段构建蛇类系统发育关系, 表明绿蛇属(*Rhadinophis*)和尖喙蛇属(*Rhynchophis*)均嵌于树栖锦蛇属(*Gonyosoma*)内, 因此将绿蛇属和尖喙蛇属定为树栖锦蛇属的次定同物异名, 而分布于我国的绿锦蛇(*Rhadinophis prasinus*)、灰腹绿锦蛇(*R. frenatus*)和尖喙蛇(*R. boulengeri*)因此均划入树栖锦蛇属内。蔡波等(2015)认为Chen等(2014)未结合

形态学数据, 未采纳这一观点。本文基于分类单系性原则, 同时考虑到Chen等(2014)在分类厘定后确实提供了树栖锦蛇属的形态鉴别特征(包括体型纤细、头狭长区别于颈、眼较大且瞳孔圆形、体中短背鳞光滑或微弱起棱等), 因此接受Chen等(2014)的分类观点, 而所涉及物种则恢复其惯用中文名称(详见下文)。Bauer等(2013)依据多基因片段构建了广义弯脚虎(*Cyrtopodion sensu lato*)的系统演化关系, 同时结合形态学数据, 将该类群物种的属级分类进行了厘定, 将长弯脚虎(*Cyrtopodion elongatum*)和大墩弯脚虎(*C. dadunense*)划入细趾虎属(*Tenuidactylus*), 本文采纳此观点, 所涉及物种学名的种加词也因此在词性上做出相应改变(表1)。Murphy等(2008)认为老挝后棱蛇(*Opisthotropis praemaxillaris*)与后棱蛇属(*Opisthotropis*)其余物种在形态上存在明显差异, 包括头部形状和背鳞质感, 因此恢复了老挝后棱蛇所代表的属级次定同物异名副后棱蛇属(*Paratapinophis*)的有效性, 而老挝后棱蛇随之改隶至副后棱蛇属, 即老挝副后棱蛇(*Paratapinophis praemaxillaris*) (表2), 但蔡波等

(2015)未予引用或讨论。Ren等(2019)依据形态学证据,认为副后棱蛇属与环游蛇属*Trimerodrytes*无法区分,提出其可能为后者的次定同物异名。鉴于对于副后棱蛇属仍缺乏系统学研究,故目前暂采纳Murphy等(2008)的观点,承认其有效性。

在种级分类方面,依据当前的研究结果,本文暂否定2种爬行动物有效性,即越南巨蜥(*Varanus vietnamensis*)和四川龙蜥(*Diploderma szechwanense*) (表9)。杨大同和刘万兆(1994)依据文献中暗影巨蜥(*Varanus nebulosus*)的形态特征,认为云南河口的巨蜥个体与其存在形态差异,故描述一新种,即越南巨蜥,而该分类观点被后续作者所采纳(饶定齐和杨大同, 1996)。随后,Böhme和Ziegler (1997)指出越南巨蜥与暗影巨蜥在色斑上无法区分,故将越南巨蜥视为暗影巨蜥的次定同物异名。后期主要爬行动物名录均未收录越南巨蜥(赵尔宓等, 1999; 杨大同和饶定齐, 2008),而近期蔡波等(2015)对二者均未予收录或讨论。基于Böhme和Ziegler (1997)的研究结果以及赵尔宓等(1999)和杨大同和饶定齐(2008)的观点,本文暂将越南巨蜥视为暗影巨蜥的次定同物异名。Ota (2000)通过对四川龙蜥(原*Japalura szechwanensis*)与横纹龙蜥(*Diploderma fasciatum*) (原*Japalura fasciata*)的模式标本,认为二者在所检视的形态特征上一致,包括缺乏横向喉褶及鳞片特征,因此将命名较晚的四川龙蜥定为横纹龙蜥的次定同物异名,而该观点也被后续研究所采纳(Manthey, 2010; Wang K et al, 2019a; 王剀等, 2019b)。尽管部分学者未采纳Ota (2000)的分类建议(赵尔宓, 2004; 杨大同和饶定齐, 2008; 蔡波等, 2015),但他们均未提供另外更新的数据对Ota (2000)的观点进行讨论或反驳。因此,在没有新数据证明四川龙蜥有效性的情况下,本文暂采纳Ota (2000)的分类观点,将四川龙蜥定为横纹龙蜥的次定同物异名。由于暗影巨蜥及横纹龙蜥未被前期研究收录(蔡波等, 2015),因此这两物种也成为我国爬行动物的增补纪录。此外,依据正式报道记录于我国的实体标本,增补前期名录中遗漏的银山过树蛇(*Dendrelaphis ngansonensis*) (Pope, 1935; Nicodemo & Bain, 2007) (表9)。

Grismer等(2013)依据线粒体片段的分子系统学研究,考虑到单系性原则及较大的分子遗传距离,将云南半叶趾虎(*Hemiphyllodactylus yunnanensis*)的

3个亚种云南半叶趾虎金平亚种(*H. y. jinpingensis*)、龙陵亚种(*H. y. longlingensis*)及独山亚种(*H. y. dushanensis*)分别提升至有效种,即金平半叶趾虎(*H. jinpingensis*)、龙陵半叶趾虎(*H. longlingensis*)和独山半叶趾虎(*H. dushanensis*),本文采纳其观点(表9)。

乌拉尔沙蜥在我国原记录有3个亚种,即指名亚种(*P. g. guttatus*)、黑腹亚种(*P. g. melanurus*)和伊犁亚种(*P. g. alpherakii*) (赵尔宓等, 1999)。随后研究确定我国无指名亚种分布(Melville et al, 2009),而其余两个确有记录的亚种均已被提升为有效种(即伊犁沙蜥*P. alpherakii*和黑腹沙蜥*P. melanurus*; 蔡波等, 2015),因此我国已无乌拉尔沙蜥分布,故在此将其移除。

综上,截至2019年12月31日,我国共记录现生本土两栖动物3目13科64属515种,爬行动物3目35科135属511种(附录1, 2)。

## 2.3 爬行动物名称修改

### 2.3.1 学名订正

参照国际动物命名法中对于科名建立和属名词性的相关规定, Savage (2015)依据闪皮蛇科(Xenodermatidae)与钝头蛇科(Pareatidae)模式属的学名词性,对其科名提出了订正意见,分别将其修订为Xenodermidae与Pareidae,本文采纳其意见(附录2)。此外,依据国际动物命名法中的相同条款,本文对先前名录中4属49种物种的学名或命名人格式也进行了订正(附录1, 2)。

### 2.3.2 中文名修改建议

对蛇类新描述或提升的科与亚科,其中文名沿用相应类群的惯用中文名或依据科名/亚科名词源中的属名进行拟定,即瘦蛇亚科(Ahaetuliinae),两头蛇科(Calamariidae)、食螺蛇科(Dipsadidae)、水游蛇科(Natricidae)、斜鳞蛇科(Pseudoxenodontidae)与剑蛇科(Sibynophiidae) (赵尔宓等, 1993; 附录2)。

对已知物种及分类阶元的中文名,为避免学术著作间的混乱(赵尔宓等, 1993; 戴鑫等, 2001; 赵尔宓, 2006; 李建, 2007; 胡晓林, 2007; 杨大同和饶定齐, 2008; 郭宪光等, 2010; 蔡波等, 2015),同时遵循中文资料中的惯用情况,在蔡波等(2015)的基础上,对部分爬行动物中文名提出了修改建议。其中,本文建议将Pythonidae中文名由“蚺科”修改为“蟒科”, Python中文名由“蚺属”修改为“蟒属”,其属下物种中文名不变,保留“蟒”(Python bivittatus); 将

Boidae中文名由“蟒科”修改为“蚺科”，*Eryx*中文名由“沙蟒属”修改为“沙蚺属”，其属下物种中文名也对应变更为“红沙蚺”(*Eryx miliaris*)及“东方沙蚺”(*E. tataricus*) (表10)。

依据拉丁文词源，并接受王剀等(2019a)的建议，将红鞭蛇属*Platyceps* (郭克疾等, 2018)中文名修改为“扁头蛇属”，而*Platyceps rhodorachis*中文名由“简氏红鞭蛇”修改为“红脊扁头蛇”。接受郭鹏等(2008)的建议，将*Thermophis baileyi*中文名由“温泉蛇”修改为“西藏温泉蛇”。由于近期名录中Lamprophiidae的中文名“鳗形蛇科”既与拉丁文词源不符(Lampr-为希腊语，意为“发光的”)、同时也未遵从以往中文资料中的习惯用法(模式属*Lamprophis*为“屋蛇属”；赵尔宓等, 1993)，在此将Lamprophiidae的中文名由“鳗形蛇科”修改为“屋蛇科”。依据拉丁文词源，本文将*Coelognathus*中文名由“三索蛇属”修改为“颌腔蛇属”，而其属下物种中文名恢复为先前惯用的“三索锦蛇”(*Coelognathus radiatus*) (表10)。

依据以往中文资料的习惯用法，建议将原蔡波等(2015)名录中修改的以下中文名统一恢复为修改前的惯用中文名称：*Xenochrophis*的中文名由“异色蛇属”恢复为“渔游蛇属”，其属下物种中文名相应恢复为“渔游蛇”(*Xenochrophis piscator*)和“黄斑渔游蛇”(*X. flavipunctatus*)；将*Lycodon*的中文名称由“链蛇属”恢复为“白环蛇属”，而其属内物种原隶属于*Dinodon*属、已有惯用中文名、且蔡波等(2015)未进行变动的，则保留其中文名称，包括“黄链蛇”(*L. flavozonatus*)、“南方链蛇”(*L. meridionalis*)、“粉链蛇”(*L. rosazonatus*)、“赤链蛇”(*L. rufozonatus*)和“白链蛇”(*L. septentrionalis*)，而对于蔡波等(2015)改动的，则恢复其先前惯用名称，即将*L. aulicus*由“白环链蛇”恢复为“白环蛇”、*L. fasciatus*由“双全链蛇”恢复为“双全白环蛇”、*L. laoensis*由“老挝链蛇”恢复为“老挝白环蛇”、*L. ruhstrati*由“黑背链蛇”恢复为“黑背白环蛇”、*L. septentrionalis*由“北链蛇”恢复为“白链蛇”、*L. subcinctus*由“细白链蛇”恢复为“细白环蛇”；将原广义锦蛇属(*Elaphe sensu lato*)物种的中文名恢复为原惯用名，即将*E. moellendorffi*中文名由“百花晨蛇”恢复为“百花锦蛇”、*E. taeniurus*由“黑眉晨蛇”恢复为“黑眉锦蛇”、*E. hodgsonii*由“南峰晨蛇”恢复为“南峰锦蛇”、*E. cantoris*由“坎氏晨蛇”恢复为“坎氏锦蛇”，*Gonyosoma prasinum*由“绿

**表10** 与蔡波等(2015)名录相比，本文名录中分类未发生变动、仅中文名发生变化的部分爬行动物科、属及物种。“原中文名”指蔡波等(2015)或相关文献使用的中文名。

Table 10 Proposed changes for the Chinese common names for some of the reptilian species of China. The former Chinese common names refer to the ones used in the previous reptilian checklist by Cai et al (2015)

学名 Scientific name	原中文名 Previous Chinese common name	建议修改的中文名 Revised Chinese common name
<b>科 Family</b>		
Boidae	蟒科	蚺科
Lamprophiidae	鳗形蛇科	屋蛇科
Pythonidae	蚺科	蟒科
<b>属 Genus</b>		
<i>Coelognathus</i>	三索蛇属	颌腔蛇属
<i>Cyrtodactylus</i>	弯脚虎属	裸趾虎属
<i>Eryx</i>	沙蟒属	沙蚺属
<i>Lycodon</i>	链蛇属	白环蛇属
<i>Platyceps</i>	红鞭蛇属	扁头蛇属
<i>Python</i>	蚺属	蟒属
<i>Xenochrophis</i>	异色蛇属	渔游蛇属
<b>种 Species</b>		
<i>Coelognathus radiatus</i>	三索蛇	三索锦蛇
<i>Elaphe cantoris</i>	坎氏晨蛇	坎氏锦蛇
<i>Elaphe hodgsonii</i>	南峰晨蛇	南峰锦蛇
<i>Elaphe moellendorffi</i>	百花晨蛇	百花锦蛇
<i>Elaphe taeniura</i>	黑眉晨蛇	黑眉锦蛇
<i>Eremias quadrifrons</i>	方额麻蜥	四额鳞麻蜥
<i>Eryx miliaris</i>	红沙蚺	红沙蚺
<i>Eryx tataricus</i>	东方沙蟒	东方沙蚺
<i>Euprepiophis mandarinus</i>	玉斑蛇	玉斑锦蛇
<i>Euprepiophis perlaceus</i>	横斑玉斑蛇	横斑锦蛇
<i>Hemorrhois ravergieri</i>	密纹蛇	花脊游蛇
<i>Himalayophis tibetanus</i>	西藏喜山蝮	西藏竹叶青蛇
<i>Hypsiscopus plumbea</i>	铅色蛇	铅色水蛇
<i>Lycodon fasciatus</i>	双全链蛇	双全白环蛇
<i>Lycodon futsingensis</i>	福清链蛇	福清白环蛇
<i>Lycodon gongshan</i>	贡山链蛇	贡山白环蛇
<i>Lycodon laoensis</i>	老挝链蛇	老挝白环蛇
<i>Lycodon liuchengchaoi</i>	刘氏链蛇	刘氏白环蛇
<i>Lycodon multizonatus</i>	横纹链蛇	横纹白环蛇
<i>Lycodon ruhstrati</i>	黑背链蛇	黑背白环蛇
<i>Lycodon septentrionalis</i>	北链蛇	白链蛇
<i>Lycodon subcinctus</i>	细白链蛇	细白环蛇
<i>Lycodon synaptor</i>	东川链蛇	东川白环蛇
<i>Myrrophis bennettii</i>	黑斑沼蛇	黑斑水蛇
<i>Myrrophis chinensis</i>	中国沼蛇	中国水蛇
<i>Oreocryptophis porphyraceus</i>	紫灰蛇	紫灰锦蛇
<i>Orientocoluber spinalis</i>	黄脊东方蛇	黄脊游蛇
<i>Platyceps rhodorachis</i>	简氏红鞭蛇	红脊扁头蛇
<i>Popeia popeorum</i>	坡普蝮	坡普竹叶青蛇
<i>Subsessor bocourti</i>	腹斑蛇	腹斑水蛇
<i>Thermophis baileyi</i>	温泉蛇	西藏温泉蛇
<i>Viridovipera gumprechtii</i>	冈氏绿蝮	冈氏竹叶青蛇
<i>Viridovipera medoensis</i>	墨脱绿蝮	墨脱竹叶青蛇
<i>Viridovipera stejnegeri</i>	福建绿蝮	福建竹叶青蛇
<i>Viridovipera yunnanensis</i>	云南绿蝮	云南竹叶青蛇
<i>Xenochrophis flavipunctatus</i>	黄斑异色蛇	黄斑渔游蛇
<i>Xenochrophis piscator</i>	异色蛇	渔游蛇

蛇”恢复为“绿锦蛇”、*G. frenatum*由“灰腹绿蛇”恢复为“灰腹绿锦蛇”，*Euprepiophis mandarinus*由“玉斑蛇”恢复为“玉斑锦蛇”、*Euprepiophis perlaceus*由“横纹玉斑蛇”恢复为“横斑锦蛇”，*Oreocryptophis porphyraceus*由“紫灰蛇”恢复为“紫灰锦蛇”，而对于蔡波等(2015)名录中收录的广义锦蛇属中剩余有效属的中文名称，则在此保留，即“紫灰蛇属”*Oreocryptophis*和“玉斑蛇属”*Euprepiophis*；将*Hemorrhois ravergieri*中文名由“秘纹蛇”恢复为“花脊游蛇”；将*Orientocoluber spinalis*中文名由“黄脊东方蛇”恢复为“黄脊游蛇”；在保留蔡波等(2015)使用的属中文名的情况下，将原广义竹叶青属*Trimeresurus sensu lato*物种统一恢复为原惯用中文名，即将*Viridovipera medoensis*中文名由“墨脱绿蝮”恢复为“墨脱竹叶青蛇”，由*V. yunnanensis*由“云南绿蝮”恢复为“云南竹叶青蛇”、*V. stejnegeri*由“福建绿蝮”恢复为“福建竹叶青蛇”、*Himalayophis tibetanus*由“西藏喜山蝮”恢复为“西藏竹叶青蛇”；将*Myrrophis chinensis*由“中国沼蛇”恢复为“中国水蛇”、*M. bennettii*由“黑斑沼蛇”恢复为“黑斑水蛇”、*Hypsiscopus plumbea*由“铅色蛇”恢复为“铅色水蛇”、*Subsessor bocourti*由“腹斑蛇”恢复为“腹斑水蛇”；将*Eremias quadrifrons*的中文名恢复为先前文献中惯用的“四额鳞麻蜥”(表10)。

对于白环蛇属近期发现或恢复有效性的物种、由于*Lycodon multizonatus*的原惯用中文名“横纹小头蛇”与现小头蛇属(*Oligodon*)物种易发生混淆，故建议修改为“横纹白环蛇”；而剩余未有惯用中文名的物种，为保持该属中文名最大程度一致性，建议对其中文名做出修改，即将*Lycodon futsingensis*由“福清链蛇”修改为“福清白环蛇”、*Lycodon gongshan*中文名由“贡山链蛇”修改为“贡山白环蛇”、*Lycodon liuchengchaoi*由“刘氏链蛇”修改为“刘氏白环蛇”、*Lycodon synaptor*由“东川链蛇”修改为“东川白环蛇”。类似地，对于广义竹叶青属中先前中文文献中未做记载的*Viridovipera gumprechti*和*Popeia popeorum*，中文名则分别由“冈氏绿蝮”和“坡普蝮”更改为“冈氏竹叶青蛇”和“坡普竹叶青蛇”；对于*Sinovipera sichuanensis*则遵从原文，保留其物种中文名，即“四川华蝮”(表5)。

对于近期高阶元分类变动的类群，对于以往文献中存在惯用名称的，采纳以往惯用名称：*Japalura*

中文名沿用“攀蜥属”，而主要分布于我国西南地区及台湾岛的*Diploderma*中文名则使用先前使用的“龙蜥属”(赵尔宓等，1999；赵尔宓，2004)；相应地，其属内对应物种的中文名也做出了改变；*Pseudoagkistrodon*的中文名沿用其次定同物异名*Macropisthodon*在中文文献中的名称“颈棱蛇属”(赵尔宓等，1998；赵尔宓，2004, 2006)，而*P. rudis*中文名亦保留“颈棱蛇”；新属*Smithophis*此前被误定为*Rhabdops*，故沿用后者的中文名，而*Rhabdops*的中文名在以往文献中不统一，或“杆蛇属”(赵尔宓等，1993)、或“黄腹杆蛇属”(赵尔宓等，1998；赵尔宓，2006；蔡波等，2015)，然而后者的“黄腹”一词既无语源学支持，又对该属的鉴别无特殊意义，故本文采纳前者，将*Smithophis*中文名修改为“杆蛇属”，而该类群在我国所涉及物种*Smithophis bicolor*的中文名保持不变，即“黄腹杆蛇”；对于新划入树蜥属的*Calotes paulus*，其中文名保持不变，即“异鳞蜥”。

对于分类变动时已明确给出中文名修改建议的，则采纳文献意见：*Trimerodites*中文名采用“环游蛇属”，其属内除模式种外的其他物种中文名保持不变，而其模式种*Trimerodites balteatus*中文名修改为“横纹环游蛇”(Ren et al, 2019)(表1, 2)。

### 3 小结及展望

2015–2019年中国两栖、爬行动物累计新发现描述和恢复有效性的两栖动物共计74种、爬行动物42种。整体来看，新物种描述的数量随着新技术手段的运用及分类工作的系统开展呈逐年稳定增加的态势(王剀和蒋珂，2016；王剀和陈宏满，2017；王剀等，2018, 2019a)，提示我国两栖爬行动物多样性仍处于被低估的状态。

在此次名录整理过程中发现，以下四方面问题较为突出，值得关注：(1)部分“广布种”实际上由多个隐存物种组成，形态上较为保守而缺少研究，这一现象在部分类群中较为普遍，如角蟾属(Chen JM et al, 2017; Wang J et al, 2017, 2019c; Yang et al, 2018a; Wang L et al, 2019)、掌突蟾属(Yang et al, 2016b, 2018b; Chen JM et al, 2018; Yuan et al, 2017; Wang J et al, 2018a)、亚洲蝮属(史静耸等, 2016; Shi et al, 2017, 2018; Wang K et al, 2019e)和龙蜥属(Wang K et al, 2015, 2016, 2019d, 2019f; 王剀等, 2019b)等；(2)部分研究发现，同属物种同域分布的

现象也比较突出(Chen JM et al, 2017, 2018), 建议开展深入的整合研究, 包括基础生态学数据收集(鸣声数据、繁殖行为等)和DNA遗传学数据的整合分析, 以有助于加深对物种成种机制的理解; (3)鉴于我国西南边境省份或自治区(如云南、西藏及广西; 表5, 8)持续发现已知物种的新纪录, 建议加强我国边境地区的调查研究, 开展跨境、跨区域比较研究工作; (4)部分依据早期文献的物种纪录明显存疑, 但由于缺乏关注或存在客观困难(如模式产地或模式标本遗失或未知), 长期未得到确认与解决, 建议在后期工作中得到加强: 其中部分物种在以往及本名录中已有收录, 如记录于我国海南的长棘蜥(*Acanthosaura armata*) (赵尔宓等, 1999; 史海涛等, 2011)及记录于香港的侏蜥(*Lygosoma bowringii*) (赵尔宓等, 1999), 而另一部分物种仅在早期文献中有过记录, 但后期名录中长期未做收录或讨论(赵尔宓等, 1998, 1999; 赵尔宓, 2006; 蔡波等, 2015), 本名录也暂未收录, 如黄腹颈槽蛇(*Rhabdophis chrysargos*) (Boulenger, 1893; Pope, 1935)、敦煌沙蚺(*Eryx dunhuangensis*) (李胜忠和王国英, 1989)以及爪哇蝘蜓(*Lygosoma quadrupes*) (Smith, 1935; Geissler et al, 2011; Siler et al, 2018)。

除上述物种阶元的分类变动外, 整体上两栖爬行动物高级分类阶元的变动也较为频繁, 特别是部分科、属阶元的分类划分仍存在争议。随着研究的不断推进, 本文所总结整理的部分分类体系在将来也会面临进一步的变动。对于今后针对高阶元分类的研究, 我们建议: (1)充分考虑目前系统学研究进展, 在遵循分类单系性原则的基础上, 综合考虑形态鉴别及分类的可操作性; (2)在系统学研究中, 充分考虑我国物种在国外的近缘类群, 尤其是关键科、属、种的模式代表, 以形成对中国分布物种类群更全面、正确的系统演化关系的认识; (3)在系统发育关系未得到解决的情况下, 不建议对属级及以上的高阶元分类进行变动, 而以分子数据为基础进行系统发育关系构建时, 应结合核基因的多基因片段开展研究; (4)高阶元分类发生变动时, 各分类阶元中文名应最大程度保持稳定, 特别是物种中文名, 不建议跟随高阶元分类变动而发生频繁改变。

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## 附录 Supplementary Material

### 附录1 中国现生、原生两栖动物更新名录

Appendix 1 The updated checklist of extent, native amphibian species of China  
<http://www.biodiversity-science.net/fileup/PDF/2019238-1.pdf>

### 附录2 中国现生、原生爬行动物更新名录

Appendix 2 The updated checklist of extent, native reptile species of China  
<http://www.biodiversity-science.net/fileup/PDF/2019238-2.pdf>