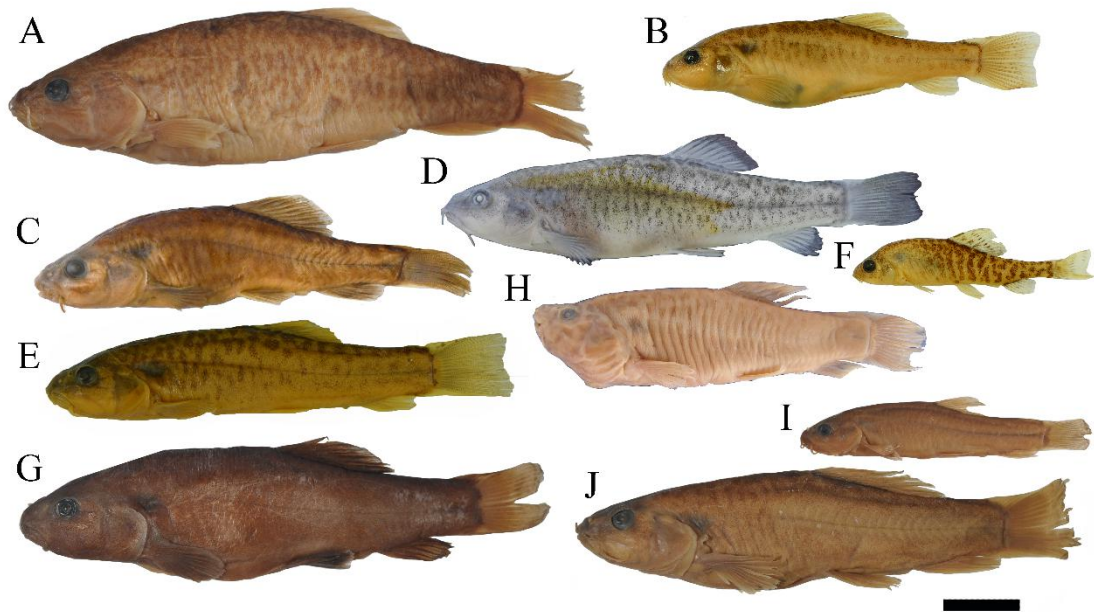
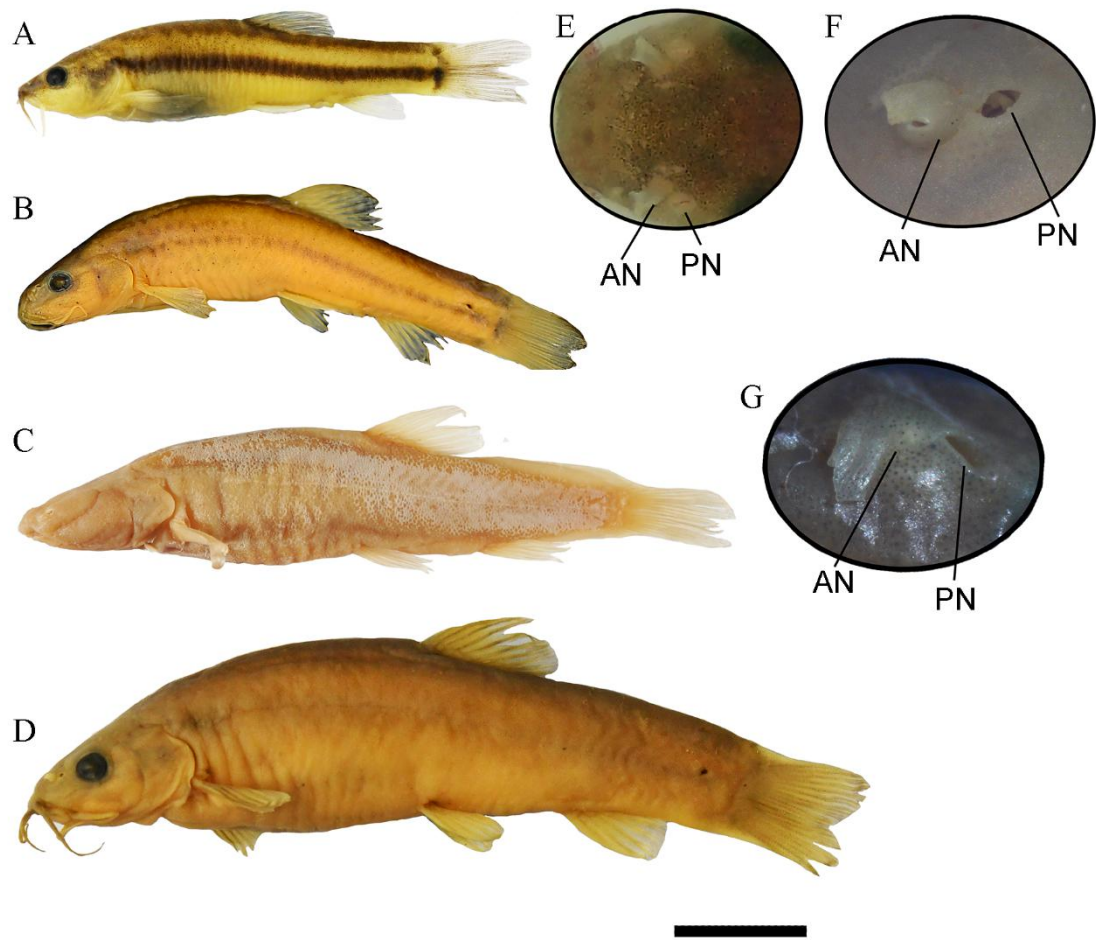


## Supplementary Materials



**Supplementary Figure S1.** Lateral views of species of *Eonemachilus*, A: *E. altus*, Holotype, KIZ1997001321; B: *E. bajiangensis*, uncatalogued 1<sup>st</sup>; C: *E. caohaiensis*, KIZ1996003125; D: *E. qujinensis*, Holotype, KIZ2013000639; E: *E. niulanensis*, Holotype, KIZ2006007730; F: *E. longidorsalis*, uncatalogued 1<sup>st</sup>; G: *E. niger*, Holotype, KIZ1980001275; H: *E. nigromaculatus*, KIZ0000001696; I: *E. obtusirostris*, Holotype, KIZ1987004000; J: *E. pachycephalus*, Holotype, KIZ1982002824. Scale = 1 cm.



**Supplementary Figure S2.** Lateral views and nostrils of species of

*Heminoemacheilus*, A, E: *H. bailianensis*, Holotype, NNNU201801, photo by JH Lan;

B, F: *H. zhengbaoshani*, KIZ1999002968; C: *H. hyalinus*, Holotype, KIZ1994000011;

D, G: *H. longibarbatus*, Paratype, KIZ2003006024, nostril photo by R. Min; AN =

anterior nostril, PN = posterior nostril. Scale = 1 cm.

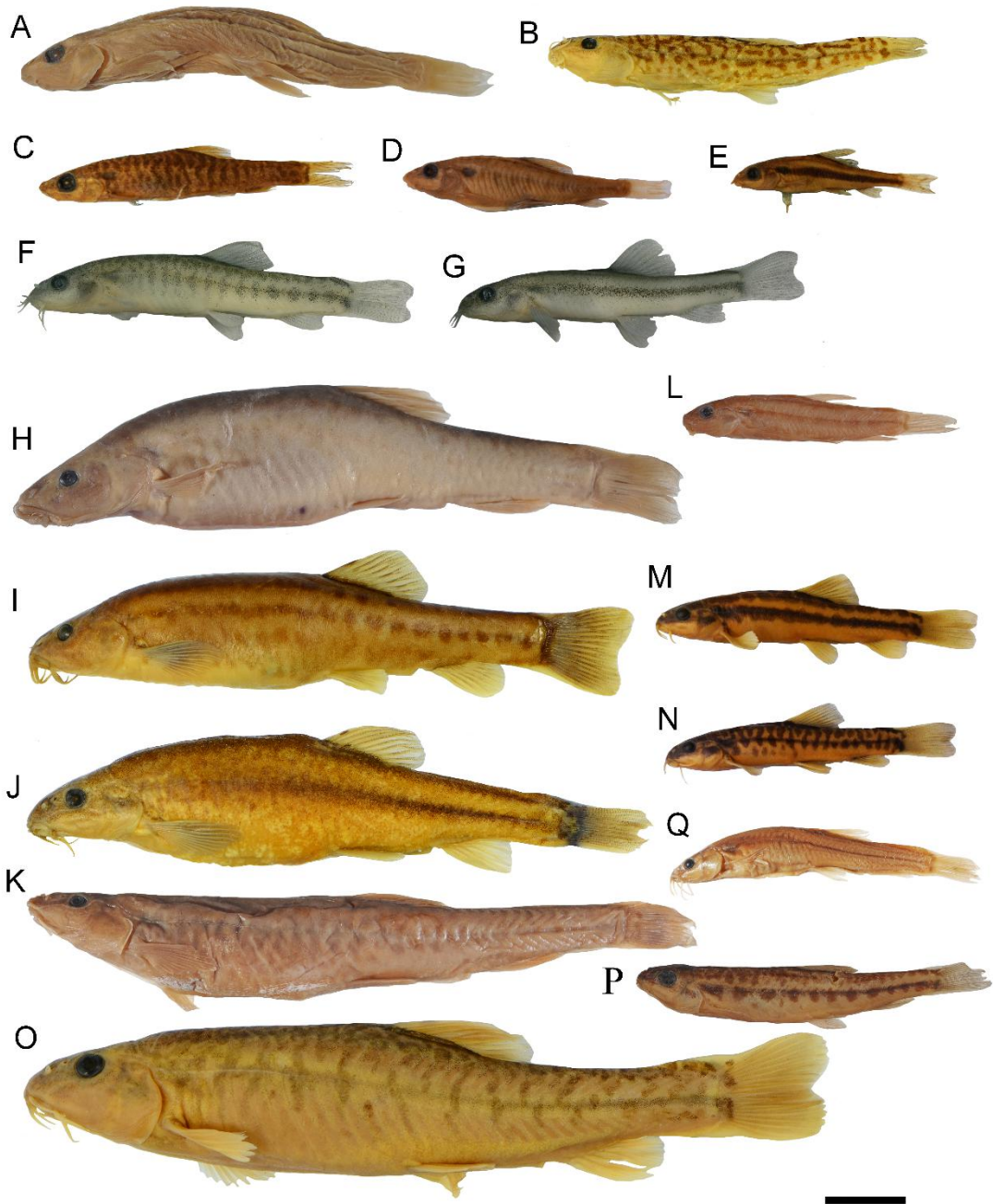


**Supplementary Figure S3.** Lateral view of species *Micronemacheilus pulcherrimus*,

KIZ1999001786. Scale = 1 cm.



**Supplementary Figure S4.** Lateral views of species of *Paranemachilus*, A: *P. jinxiensis*, Holotype, KIZ2008008627; B: *P. pingguoensis*, GXNU20111003; C: *P. genilepis*, GXNU201908004.



**Supplementary Figure S5.** Lateral views of species of *Yunnanilus*. A: *Y. analis*, Holotype, KIZ1960000625; B: *Y. beipanjiangensis* uncatalogued; C: *Y. chui*, Paratype, KIZ1989001596; D: *Y. discoloris*, Paratype, KIZ1983000938, female; E: *Y. discoloris*, Paratype, KIZ1983000943, male; F: *Y. jiuchiensis*, Holotype, KIZ2018000002, female; G: *Y. jiuchiensis*, Paratype, KIZ2018000009, male; H: *Y. macrogaster*, Holotype, KIZ1980004273; I: *Y. macrolepis*, uncatalogued; J: *Y. nanpanjiangensis*,

FACQR9191129; K: *Y. paludosus*, Paratype, KIZ1987001276; L: *Y. parvus*, Holotype, KIZ1984001244; M: *Y. pleurotaenia*, KIZ2006002675, female; N: *Y. pleurotaenia*, KIZ2006002672, male; O: *Y. spanisbripes*, HRAS199504007; P: *Y. longibulla*, Holotype, KIZ1981002383; Q: *Y. retrodorsalis*, Holotype, KIZ1991003951. Scale = 1 cm.

**Appendix I.** The Chinese loaches of Nemacheilidae.

<b>Valid</b>	<b>Distribution</b>	<b>Reference</b>	<b>Synonym</b>
<i>Aborichthys kempfi</i> Chaudhuri 1913	Xizang	Zhang & Zhao, 2016	–
<i>Barbatula altayensis</i> Zhu 1992	Xijiang	Zhu, 1995	–
<i>Barbatula emuensis</i> Chen, Zhang, Chen & Freyhof 2019	Heilongjiang	Chen et al., 2019	–
<i>Barbatula gibba</i> Cao, Causse & Zhang 2012	Inner Mongolia	Cao et al., 2012	–
<i>Barbatula liaoyangensis</i> Chen, Zhang, Chen & Freyhof 2019	Liaoning	Chen et al., 2019	–
<i>Barbatula linjiangensis</i> Chen, Zhang, Chen & Freyhof 2019	Jilin	Chen et al., 2019	–
<i>Barbatula nuda</i> (Bleeker 1864)	Hebei, Inner Mongolia, Liaoning, Jilin, Heilongjiang, Xinjiang	Kim, 1997	<i>Nemacheilus nudus</i> ; <i>Barbatula barbatula nuda</i> ; <i>Orthrias nudus</i>
<i>Barbatula potaninorum</i> (Prokofiev 2007)	Inner Mongolia	Cao et al., 2012	–
<i>Barbatula toni</i> (Dybowski 1869)	Heilongjiang	Kottelat, 2001	<i>Cobitis toni</i> ; <i>Barbatula toni toni</i> ; <i>Nemachilus peciliensis</i> Fowler, 1899; <i>Nemacheilus sibiricus</i> Gratzianov, 1907;

*Barbatula toni fowleri*

Nichols, 1925; *Barbatula toni*

*kiriensis* Tchang, 1932;

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<i>Barbatula zhangwuensis</i>	Liaoning	Chen et al., 2019	—
Chen, Zhang, Chen & Freyhof 2019			
<i>Eonemachilus bajiangensis</i>	Yunnan	Li, 2004	<i>Yunnanilus bajiangensis</i>
Li 2004			
<i>Eonemachilus altus</i>	Yunnan	Kottelat and Chu, 1988	<i>Yunnanilus altus</i>
(Kottelat & Chu 1988)			
<i>Eonemachilus caohaiensis</i>	Guizhou,	Ding, 1992; Chen, Yang and	<i>Yunnanilus caohaiensis</i> ; <i>Y.</i>
(Ding 1992)	Yunnan	Yang, 2012; Du et al., 2015	<i>niulanensis</i> ; <i>Y. qujinensis</i>
<i>Eonemachilus longidorsalis</i>	Yunnan	Li et al., 2000	<i>Yunnanilus longidorsalis</i>
(Li, Tao & Lu 2000)			
<i>Eonemachilus niger</i>	Yunnan	Kottelat and Chu, 1988	<i>Yunnanilus niger</i>
(Kottelat & Chu 1988)			
<i>Eonemachilus nigromaculatus</i> (Regan	Yunnan	Kottelat and Chu, 1988	<i>Nemachilus nigromaculatus</i> ;
1904)			<i>Yunnanilus nigromaculatus</i>
<i>Eonemachilus obtusirostris</i>	Yunnan	Yang and Chen, 1995	<i>Yunnanilus obtusirostris</i>
(Yang 1995)			
<i>Eonemachilus pachycephalus</i> (Kottelat &	Yunnan	Kottelat and Chu, 1988	<i>Yunnanilus pachycephalus</i>
Chu 1988)			
<i>Eonemachilus yangzonghaiensis</i> Cao &	Yunnan	Zhu, 1995	<i>Yunnanilus nigromaculatus</i>
Zhu 1989			<i>yangzonghaiensis</i>
<i>Hedinichthys grummorum</i>	China	Prokofiev, 2010	—
Prokofiev 2010			

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<i>Hedinichthys macropterus</i> (Herzenstein 1888)	Gansu	Prokofiev, 2010	<i>Nemachilus yarkandensis macropterus</i> ; <i>Triplophysa yarkandensis macroptera</i> ; <i>Nemacheilus yarkandensis nordkansuensis</i> Li & Chang, 1974
<i>Hedinichthys yarkandensis</i> (Day 1877)	Xinjiang	Prokofiev, 2010	<i>Nemacheilus yarkandensis</i> ; <i>Barbatus yarkandensis</i> ; <i>Triplophysa yarkandensis</i> ; <i>Nemachilus tarimensis</i> Kessler, 1879; <i>Nemachilus yarkandensis longibarbus</i> Herzenstein, 1888; <i>Nemachilus yarkandensis brevibarbus</i> Herzenstein, 1888
<i>Heminoemacheilus bailianensis</i> (Yang 2013)	Guangxi	Lan et al., 2013	<i>Yunnanilus bailianensis</i>
<i>Heminoemacheilus hyalinus</i> Lan, Yang & Chen 1996	Guangxi	Lan et al., 2013	—
<i>Heminoemacheilus longibarbus</i> (Gan, Chen & Yang 2007)	Guangxi	Gan et al., 2007	<i>Yunnanilus longibarbus</i>
<i>Heminoemacheilus zhengbaoshani</i> Zhu & Cao 1987	Guangxi	Lan et al., 2013	—
<i>Homatula acuticephala</i> (Zhou & He 1993)	Yunnan	Zhou and He, 1993	<i>Paracobitis acuticephala</i>
<i>Homatula anguillioides</i> (Zhu & Wang 1985)	Yunnan	Hu and Zhang, 2010	<i>Paracobitis anguillioides</i>



<i>Homatula anteridorsalis</i> Li, Che & Zhou 2019	Yunnan	Li et al., 2019	–
<i>Homatula change</i> Endruweit 2015	Yunnan	Endruweit, 2015	–
<i>Homatula coccinocola</i> Endruweit, Min & Yang 2018	Yunnan	Endruweit et al., 2018	–
<i>Homatula cryptoclathrata</i> Li, Che & Zhou 2019	Yunnan	Li et al., 2019	–
<i>Homatula disparizona</i> Min, Yang & Chen 2013	Yunnan	Min et al., 2013	–
<i>Homatula erhaiensis</i> (Zhu & Cao, 1988)	Yunnan	Zhu, 1989	<i>Paracobitis erhaiensis</i>
<i>Homatula laxiclathra</i> Gu & Zhang 2012	Shaanxi	Gu and Zhang, 2012	–
<i>Homatula longidorsalis</i> (Yang, Chen & Kottelat 1994)	Yunnan	Yang et al., 1994	<i>Paracobitis variagatus</i> <i>longidorsalis</i>
<i>Homatula nanpanjiangensis</i> (Min, Chen & Yang 2010)	Yunnan	Min et al., 2010	<i>Paracobitis nanpanjiangensis</i>
<i>Homatula nigra</i> Li, Che & Zhou 2019	Yunnan	Li et al., 2019	–
<i>Homatula oligolepis</i> (Cao & Zhu 1989)	Yunnan	Zheng, 1989.	<i>Paracobitis variegatus</i> <i>oligolepis</i>
<i>Homatula potanini</i> (Günther 1896)	Sichuan	Wu and Wu, 1992	<i>Nemachilus potanini</i> ; <i>Barbatula potanini</i> ; <i>Nemacheilus potanini</i> ; <i>Paracobitis potanini</i>
<i>Homatula pycnolepis</i> Hu &	Yunnan	Hu and Zhang, 2010	–

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Zhang 2010			
<i>Homatula variegata</i> (Dabry de Thiersant 1874)	Weihe, Yangtze River, Nanpanjiang River	Wu and Wu, 1992	<i>Nemachilus variegatus</i> ; <i>Paracobitis variegatus</i>
<i>Homatula wenshanensis</i> Li, Yang, Li & Liu 2017	Yunnan	Yang et al., 2017	–
<i>Homatula wujiangensis</i> (Ding & Deng 1990)	Sichuan	Ding and Deng, 1990	<i>Paracobitis wujiangensis</i>
<i>Homatula wuliangensis</i> Min, Yang & Chen 2012	Yunnan	Min et al., 2012	–
<i>Lefua costata</i> (Kessler 1876)	Heilongjiang, Jilin, Liaoning, Inner Mongolian, Shanxi, Hebei, Shandong	Zhang and Zhao, 2016	<i>Diplophysa costata</i>
<i>Micronemacheilus pulcherrimus</i> (Yang, Chen & Lan 2004)	Guangxi	Yang, Chen & Lan, 2004	<i>Yunnanilus pulcherrimus</i>
<i>Neonemacheilus mengdingensis</i> Zhu & Guo 1989	Yunnan	Zhang and Zhao, 2016	<i>Neonemacheilus labeosus</i> (non Kottelat)
<i>Oreonectes anophthalmus</i> Zheng 1981	Guangxi, Guizhou	Du et al., 2008	–
<i>Oreonectes donglanensis</i>	Guangxi	Du et al., 2008	–

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Wu 2013

*Oreonectes duanensis* Lan Guangxi Lan et al., 2013 —

2013

*Oreonectes guananensis* Guangxi Lan et al., 2013 —

Yang, Wei, Lan & Yang

2011

*Oreonectes guilinensis* Guangxi Huang et al., 2020 —

Huang, Yang, Wu & Zhao

2020

*Oreonectes luochengensis* Guangxi Lan et al., 2013 —

Yang, Wu, Wei & Yang

2011

*Oreonectes platycephalus* Guangxi, Lan et al., 2013 —

Günther 1868  
Guangdong,  
Hongkong

*Oreonectes polystigmus* Du, Guangxi Du et al., 2008 —

Chen & Yang 2008

*Paracanthocobitis botia* Yunnan Zhang and Zhao, 2016 *Cobitis botia* Hamilton, 1822,  
(Hamilton, 1822) *Acanthocobitis botia*  
(Hamilton, 1822)

*Paranemachilus genilepis* Guangxi Zhu, 1983 —

Zhu 1983

*Paranemachilus jinxiensis* Guangxi Zhu et al., 2009 *Yunnanilus jinxiensis*

(Zhu, Du & Chen 2009)

*Paranemachilus* Guangxi Lan et al., 2013 —

*pingguoensis* Gan 2013

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*Physoschistura absumbra* Yunnan Endruweit, 2017a —

Endruweit 2017

*Physoschistura* Yunnan Chen, 2013; Zhang and Zhao, *Noemacheilus*

<i>shuangjiangensis</i> (Zhu & Wang 1985)		2016	<i>shuangjiangensis</i> ; <i>Schistura shuangjiangensis</i>
<i>Protonemacheilus longipectoralis</i> Yang & Chu 1990	Yunnan	Yang and Chu, 1990	–
<i>Pteronemacheilus meridionalis</i> (Zhu 1982)	Yunnan	Chen, 2013	<i>Nemacheilus meridionalis</i> ; <i>Schistura meridionalis</i> ; <i>Physoschistura meridionalis</i>
<i>Schistura albirostris</i> Chen & Neely 2012	Yunnan	Chen and Neely, 2012	–
<i>Schistura alboguttata</i> Cao & Zhang 2018	Guangxi	Cao and Zhang, 2018	–
<i>Schistura amplizona</i> Kottelat 2000	Yunnan	Kottelat, 2000	–
<i>Schistura bannaensis</i> Chen, Yang & Qi 2005	Yunnan	Chen X.M. et al., 2005	–
<i>Schistura breviceps</i> (Smith 1945)	Yunnan	Kottelat, 2013	–
<i>Schistura bucculenta</i> (Smith 1945)	Yunnan	Zhu, 1989; Kottelat, 2012	<i>Noemacheilus bucculentus</i>
<i>Schistura callichroma</i> (Zhu & Wang 1985)	Yunnan	Zhu, 1989; Kottelat, 2012	<i>Noemacheilus callichromus</i>
<i>Schistura caudofurca</i> (Mai 1978)	Yunnan	Kottelat, 2012	<i>Barbatula caudofurca</i> ; <i>Noemacheilus laterivittatus</i>
<i>Schistura conirostris</i> (Zhu 1982)	Yunnan	Kottelat, 2012	<i>Nemacheilus conirostris</i>
<i>Schistura cryptofasciata</i> Chen, Kong & Yang 2005	Yunnan	Chen X.Y. et al., 2005	–
<i>Schistura dabryi</i> (Sauvage)	Yangtze River	Zhu, 1989; Kottelat, 2012;	<i>Oreias dabryi</i> ; <i>Schistura</i>

1874)		Zhang and Zhao, 2016	<i>dabryi dabryi</i> ; <i>Schistura dabryi nanpanjiangensis</i> ; <i>Claea dabryi</i>
<i>Schistura dabryi microphthalmus</i> Liao & Wang, 1997	Guizhou	Zhang and Zhao, 2016	<i>Triplophysa microphthalma</i>
<i>Schistura disparizona</i> Zhou & Kottelat 2005	Yunnan	Zhou and Kottelat, 2005; Kottelat, 2012	—
<i>Schistura fasciolata</i> (Nichols & Pope 1927)	Guizhou, Yunnan, Guangxi, Hainan, Hongkong	Zhu, 1989; Chen, 2013; Kottelat, 2012; Zhang and Zhao, 2016	<i>Homaloptera fasciolata</i> ; <i>Nemacheilus fasciolatus</i> ; <i>Barbatula fasciolata</i>
<i>Schistura greenei</i> Endruweit 2017	Yunnan	Endruweit, 2017d	—
<i>Schistura hingi</i> (Herre 1934)	Hongkong	Freyhof and Serov, 2001	<i>Homaloptera hingi</i>
<i>Schistura huapingensis</i> (Wu & Wu 1992)	Sichuan	Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemacheilus obscurus huapingensis</i>
<i>Schistura kengtungensis</i> (Fowler 1936)	Yunnan	Kottelat, 1990; Chen, 2013; Zhang and Zhao, 2016	<i>Nemacheilus thai</i> (non Fowler); <i>Nemacheilus kengtungensis</i>
<i>Schistura kloetziae</i> Kottelat 2000	Yunnan	Kottelat, 2000	—
<i>Schistura latifasciata</i> (Zhu & Wang 1985)	Yunnan	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Noemacheilus latifasciatus</i>
<i>Schistura lingyunensis</i> (Liao, Wang & Luo 1997)	Guangxi	Kottelat, 2012; Lan et al., 2013; Zhang and Zhao, 2016	<i>Triplophysa lingyunensis</i>
<i>Schistura longa</i> (Zhu 1982)	Yunnan	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus longus</i>

<i>Schistura macrocephalus</i> Kottelat 2000	Yunnan	Kottelat, 2000	—
<i>Schistura macrotaenia</i> (Yang 1990)	Yunnan	Kottelat, 2012	<i>Nemacheilus macrotaenia</i>
<i>Schistura malaisei</i> Kottelat 1990	Yunnan	Kottelat, 1990	—
<i>Schistura megalodon</i> Endruweit 2014	Yunnan	Endruweit, 2014a	—
<i>Schistura nandingensis</i> (Zhu & Wang 1985)	Yunnan	Zhu, 1989; Kottelat, 2012	<i>Noemacheilus nandingensis</i>
<i>Schistura niulanjiangensis</i> Chen, Lu & Mao 2006	Yunnan	Chen et al., 2006; Kottelat, 2012; Zhang and Zhao, 2016	<i>Claea niulanjiangensis</i>
<i>Schistura notasileum</i> Endruweit, Yang & Liu 2016	Yunnan	Endruweit et al., 2016	—
<i>Schistura paraxena</i> Endruweit 2017	Guangxi	Endruweit, 2017c	—
<i>Schistura pertica</i> Kottelat 2000	Yunnan	Kottelat, 2000; Chen, 2013	—
<i>Schistura poculi</i> (Smith 1945)	Yunnan	Chen, 2013; Zhang and Zhao, 2016	<i>Noemacheilus poculi</i> ; <i>Nemacheilus poculi</i>
<i>Schistura polytaenia</i> (Zhu 1982)	Yunnan	Zhu, 1989; Kottelat, 2013; Chen, 2013	<i>Nemachilus polytaenia</i> ; <i>Nemacheilus polytaenia</i>
<i>Schistura prolixifasciata</i> Zheng, Yang & Chen 2012	Yunnan	Zheng et al., 2012b	—
<i>Schistura pseudofasciolata</i> Zhou & Cui 1993	Sichuan	Zhou and Cui, 1993	—
<i>Schistura rara</i> (Zhu & Cao 1987)	Guangdong	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Noemacheilus rarus</i> ; <i>Nemacheilus rarus</i>

<i>Schistura schultzi</i> (Smith 1945)	Yunnan	Kottelat, 2012; Zhang and Zhao, 2016	<i>Noemacheilus schultzi</i> ; <i>Nemacheilus schultzi</i>
<i>Schistura sexnubes</i> Endruweit 2014	Yunnan	Endruweit, 2014b	–
<i>Schistura sikmaiensis</i> (Hora 1921)	Yunnan	Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus sikmaiensis</i>
<i>Schistura stala</i> Endruweit 2017	Yunnan	Endruweit, 2017b	–
<i>Schistura vinciguerrae</i> (Hora 1935)	Yunnan	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus vinciguerrae</i> ; <i>Nemachilus putaoensis</i>
<i>Schistura waltoni</i> (Fowler 1937)	Yunnan	Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemacheilus waltoni</i> ; <i>Nemacheilus obscurus obscurus</i>
<i>Schistura yingjiangensis</i> (Zhu 1982)	Yunnan	Zhu, 1989; Kottelat, 2012	<i>Nemachilus yingjiangensis</i> ; <i>Noemacheilus yingjiangensis</i> ; <i>Nemacheilus yingjiangensis</i>
<i>Sectoria heterognathos</i> (Chen 1999)	Yunnan	Kottelat, 2012; Chen, 2013	<i>Schistura heterognathos</i> ; <i>Sectoria megastoma</i> Kottelat, 2000
<i>Sphaerophysa dianchiensis</i> Cao & Zhu 1988	Yunnan	Zhu, 1989; Chen, 2013; Zhang and Zhao, 2016	–
<i>Traccatichthys pulcher</i> (Nichols & Pope 1927)	Guangxi	Du et al., 2012; Kottelat, 2012	<i>Nemachilus pulcher</i> ; <i>Micronoemacheilus pulcher</i>
<i>Traccatichthys taeniatus</i> (Pellegrin & Chevey 1936)	Guangxi	Du et al., 2012; Kottelat, 2012	<i>Nemachilus pulcher taeniata</i> ; <i>Micronoemacheilus taeniatus</i>
<i>Traccatichthys tuberculum</i> Du, Zhang & Chan 2012	Guangdong	Du et al. 2012	–
<i>Traccatichthys zispi</i> Prokofiev 2004	Hainan	Zhang and Zhao, 2016; Du et al., 2012	<i>Micronemacheilus zipi</i>

<i>Triplophysa alexandrae</i> Prokofiev 2001	Sichuan	Prokofiev, 2001	–
<i>Triplophysa aliensis</i> (Wu & Zhu 1979)	Xizang	Wu and Zhu, 1979	<i>Nemacheilus aliensis</i>
<i>Triplophysa alticeps</i> (Herzenstein 1888)	Qinghai	Zhu, 1989; Zhang and Zhao, 2016	<i>Nemachilus alticeps</i>
<i>Triplophysa altipinnis</i> Prokofiev 2003	Qinghai	Prokofiev, 2003	–
<i>Triplophysa aluensis</i> Li & Zhu 2000	Yunnan	Kottelat, 2012; Zhang and Zhao, 2016	–
<i>Triplophysa angeli</i> (Fang 1941)	Sichuan	Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemacheilus angeli</i>
<i>Triplophysa anshuiensis</i> Wu, Wei, Lan & Du 2018	Guangxi	Wu T.J. et al., 2018	–
<i>Triplophysa anterodorsalis</i> Zhu & Cao 1989	Jinsha River basin	Zhu, 1989; Zhang and Zhao, 2016	–
<i>Triplophysa aquaeaeeruleae</i> Prokofiev 2001	Qinghai	Prokofiev, 2001	–
<i>Triplophysa baotianensis</i> Li, Li, Liu & Li 2018	Guizhou	Li et al., 2018	–
<i>Triplophysa bashanensis</i> Xu & Wang 2009	Shaanxi	Xu and Wang, 2009	–
<i>Triplophysa bellibarus</i> (Tchang, Yueh & Hwang 1963)	Xizang	Ye et al., 2015	<i>Nemacheilus bellibarus</i>
<i>Triplophysa bleekeri</i> (Sauvage & Dabry de Thiersant 1874)	Yangtze River	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus bleekeri</i>
<i>Triplophysa bombifrons</i>	Xinjiang	Wu and Wu, 1992; Zhang and	<i>Nemachilus bombifrons</i> ;



(Herzenstein 1888)		Zhao, 2016	<i>Tarimichthys bombifrons</i>
<i>Triplophysa brachyptera</i>	Gansu	Prokofiev, 2007	<i>Nemachilus robustus</i>
(Herzenstein 1888)			<i>brachypterus</i>
<i>Triplophysa brevibarba</i>	Sichuan	Kottelat, 2012; Zhang and	–
Ding 1993		Zhao, 2016	
<i>Triplophysa brevicauda</i>	Qinghai,	Ding, 1994; Kottelat, 2012;	<i>Nemachilus stoliczkae</i>
(Herzenstein 1888)	Xizang,	Zhang and Zhao, 2016	<i>brevicauda</i>
	Xinjiang,		
	Gansu and		
	Sichuan		
<i>Triplophysa cakaensis</i> Cao	Qinghai	Zhu, 1989; Zhang and Zhao,	–
& Zhu 1988		2016	
<i>Triplophysa chondrostoma</i>	Xinjiang	Zhu, 1989; Kottelat, 2012;	<i>Nemachilus chondrostoma</i>
(Herzenstein 1888)		Zhang and Zhao, 2016	
<i>Triplophysa crassicauda</i>	Qinghai	Prokofiev, 2007	<i>Nemachilus stoliczkae</i>
(Herzenstein 1888)			<i>crassicauda</i>
<i>Triplophysa crassilabris</i>	Sichuan	Ding, 1994; Chen et al., 2004a	–
Ding 1994			
<i>Triplophysa cuneicephala</i>	Beijing	Zhu, 1989; Kottelat, 2012;	<i>Barbatula cuneicephalus</i>
(Shaw & Tchang 1931)		Zhang and Zhao, 2016	
<i>Triplophysa dalaica</i>	Inner	Zhu, 1989; Zhang and Zhao,	<i>Diplophysa dalaica</i>
(Kessler 1876)	Mongolia,	2016	
	Gansu		
<i>Triplophysa daochengensis</i>	Sichuan	Wu et al., 2016	–
Wu, Sun & Guo 2016			
<i>Triplophysa daqiaoensis</i>	Sichuan	Ding, 1994; Kottelat, 2012	–
Ding 1993			
<i>Triplophysa dongganensis</i>	Guangxi	Lan et al., 2013	–
Yang 2013			

<i>Triplophysa dorsalis</i> (Kessler 1872)	Xinjiang	Zhang and Zhao, 2016	<i>Cobitis dorsalis</i>
<i>Triplophysa edsinica</i> Prokofiev 2003	North China	Prokofiev, 2004	–
<i>Triplophysa erythraea</i> Liu & Huang 2019	Hunan	Huang et al., 2019	–
<i>Triplophysa eugeniae</i> Prokofiev 2002	Kam Valley	Prokofiev, 2002	–
<i>Triplophysa fengshanensis</i> Lan 2013	Guangxi	Lan et al., 2013	–
<i>Triplophysa flavicorpus</i> Yang, Chen & Lan 2004	Guangxi	Yang et al., 2004	–
<i>Triplophysa furva</i> Zhu 1992	Xinjiang	Zhang and Zhao, 2016	–
<i>Triplophysa fuxianensis</i> Yang & Chu 1990	Yunnan	Yang and Chu, 1990	–
<i>Triplophysa gejiuensis</i> (Chu & Chen 1979)	Yunnan	Zhu, 1989, Zhou and Cui, 1997; Kottelat, 2012; Zhang and Zhao, 2016	<i>Noemacheilus gejiuensis</i> ; <i>Schistura gejiuensis</i>
<i>Triplophysa gerzeensis</i> Cao & Zhu 1988	Xizang	Zhu, 1989; Zhang and Zhao, 2016	–
<i>Triplophysa grahami</i> (Regan 1906)	Yunnan	Yang and Chen, 1995; Chen, 2013	<i>Nemachilus grahami</i>
<i>Triplophysa guizhouensis</i> Wu, He, Yang & Du 2018	Guizhou	Wu et al., 2018	–
<i>Triplophysa hexiensis</i> (Zhao & Wang 1988)	Gansu	Prokofiev, 2010	<i>Nemachilus dorsonotatus</i> <i>hexiensis</i>
<i>Triplophysa heyangensis</i> Zhu 1992	Shaanxi	Kottelat, 2012; Zhang and Zhao, 2016	–
<i>Triplophysa hialmari</i>	Qinghai	Prokofiev, 2001	–

Prokofiev 2001

<i>Triplophysa hsutschouensis</i> (Rendahl 1933)	Gansu	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemacheilus hsutschouensis</i>
<i>Triplophysa huanglongensis</i> Gao 1992	Shaanxi	Kottelat, 2012	—
<i>Triplophysa huanjiangensis</i> Yang, Wu & Lan 2011	Guangxi	Yang et al., 2011	—
<i>Triplophysa huapingensis</i> Zheng, Yang & Chen 2012	Guangxi	Zheng et al., 2012a	—
<i>Triplophysa hutjertjuensis</i> (Rendahl 1933)	Gansu	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemacheilus hutjertjuensis</i>
<i>Triplophysa intermedia</i> (Kessler 1876)	Inner Mongolia	Eschmeyer, 2004	<i>Diplophysa intermedia</i>
<i>Triplophysa jianchuanensis</i> Zheng, Du, Chen & Yang 2010	Yunnan	Zheng et al., 2010	—
<i>Triplophysa jiarongensis</i> (Lin, Li & Song 2012)	Guizhou	Lin et al., 2012	—
<i>Triplophysa labiata</i> (Kessler 1874)	Xinjiang	Zhu, 1989; Zhang and Zhao, 2016	<i>Diplophysa labiate; Barbatula labiata</i>
<i>Triplophysa lacustris</i> Yang & Chu 1990	Yunnan	Yang and Chen, 1995	—
<i>Triplophysa langpingensis</i> Yang 2013	Guangxi	Lan et al., 2013	—
<i>Triplophysa laterimaculata</i> Li, Liu & Yang 2007	Xinjiang	Li et al., 2007	—
<i>Triplophysa laticeps</i> Zhou & Cui 1997	Yunnan	Zhou and Cui, 1997	—
<i>Triplophysa leptosoma</i>	Xizang,	Zhu, 1989; Kottelat, 2012;	<i>Nemachilus stoliczkae</i>

(Herzenstein 1888)	Qinghai, Gansu	Zhang and Zhao, 2016	<i>leptosoma</i> ; <i>Indotriphysa leptosoma</i>
<i>Triphysa lihuensis</i> Wu, Yang & Lan 2012	Guangxi	Wu et al., 2012	–
<i>Triphysa lixianensis</i> He, Song & Zhang 2008	Sichuan	He et al., 2008	–
<i>Triphysa longianguis</i> Wu & Wu 1984	Qinghai	Kottelat, 2012; Zhang and Zhao, 2016	–
<i>Triphysa longibarbus</i> (Chen, Yang, Sket & Aljancic 1998)	Guizhou	Chen et al., 1999; Du et al., 2008; Kottelat, 2012	<i>Paracobitis longibarbus</i> ; <i>Nemacheilus liboensis</i> Ran, 2000; <i>Paracobitis posterodorsalis</i> Li, Ran & Chen, 2006;
<i>Triphysa longipectoralis</i> Zheng, Du, Chen & Yang 2009	Guangxi	Zheng et al., 2009	–
<i>Triphysa longliensis</i> Ren, Yang & Chen 2012	Guizhou	Ren et al., 2012	–
<i>Triphysa luochengensis</i> Li, Lan, Chen & Du 2017	Guangxi	Li et al., 2017a	–
<i>Triphysa macrocephala</i> Yang, Wu & Yang 2012	Guangxi	Yang et al., 2012	–
<i>Triphysa macromaculata</i> Yang 1990	Yunnan	Yang, 1990	–
<i>Triphysa macrophthalma</i> Zhu & Guo 1985	Yunnan	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	–
<i>Triphysa markehenensis</i> (Zhu & Wu 1981)	Sichuan	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	–
<i>Triphysa microphthalma</i>	Xijiang	Zhu, 1989; Kottelat, 2012;	<i>Diplophysa microphthalma</i> ;

(Kessler 1879)		Zhang and Zhao, 2016	<i>Barbatula microphthalmia</i> ; <i>Labitophysa microphthalmia</i>
<i>Triplophysa microphysis</i> (Fang 1935)	Xijiang	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemacheilus (Deterophysa)</i> <i>microphysus</i>
<i>Triplophysa microps</i> (Steindachner 1866)	Xizang	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Cobitis microps</i>
<i>Triplophysa minuta</i> (Li 1966)	Xinjiang	Wu and Wu, 1992.	<i>Nemachilus minutus</i>
<i>Triplophysa minxianensis</i> (Wang & Zhu 1979)	Gansu	Zhu, 1989; Zhang and Zhao, 2016	<i>Nemachilus minxianensis</i>
<i>Triplophysa moquensis</i> Ding 1994	Sichuan	Ding, 1994	–
<i>Triplophysa nandanensis</i> Lan, Yang & Chen 1995	Guangxi	Lan et al., 1995	–
<i>Triplophysa nanpanjiangensis</i> (Zhu & Cao 1988)	Yunnan	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Oreias dabryi</i> <i>nanpanjiangensis</i> ; <i>Schistura</i> <i>dabryi nanpanjiangensis</i>
<i>Triplophysa nasobarbatula</i> Wang & Li 2001	Guizhou	Wang and Li, 2001	–
<i>Triplophysa ninglangensis</i> Wu & Wu 1988	Yunnan	Zhang and Zhao, 2016	–
<i>Triplophysa nujiangensa</i> Chen, Cui & Yang 2004	Yunnan	Chen XY. et al., 2004b	–
<i>Triplophysa obscura</i> Wang 1987	Shaanxi	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	–
<i>Triplophysa obtusirostra</i> Wu & Wu 1988	Qinghai	Kottelat, 2012; Zhang and Zhao, 2016	–
<i>Triplophysa orientalis</i> (Herzenstein 1888)	Gansu, Qinghai,	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus kungessanus</i> <i>orientalis</i> ; <i>Triplophysa</i>

	Sichuan, Xizang		<i>kungessanus orientalis</i>
<i>Triplophysa papillosolabiata</i> (Kessler 1879)	Xijiang, Gansu	Zhang and Zhao, 2016	<i>Diplophysa papilloso labiate;</i> <i>Nemachilus strauchii</i> <i>papillosolabiatus</i>
<i>Triplophysa pappenheimi</i> (Fang 1935)	Gansu	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemacheilus pappenheimi</i>
<i>Triplophysa parvus</i> Chen, Li & Yang 2009	Yunnan	Kottelat, 2012; Zhang and Zhao, 2016	—
<i>Triplophysa polyfasciata</i> Ding 1996	Sichuan	Ding et al., 1996; Zhang and Zhao, 2016	—
<i>Triplophysa pseudoscleroptera</i> (Zhu & Wu 1981)	Qinghai, Yunnan, Sichuan, Gansu	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus pseudoscleropterus</i>
<i>Triplophysa pseudostenura</i> He, Zhang & Song 2012	Sichuan	He et al., 2012	—
<i>Triplophysa qilianensis</i> Li, Chen & Hu 2015	Qinghai	Li et al., 2015	—
<i>Triplophysa qiubeiensis</i> Li & Yang 2008	Yunnan	Li et al., 2008; Kottelat, 2012; Zhang and Zhao, 2016	—
<i>Triplophysa robusta</i> (Kessler 1876)	Gansu, Shaanxi	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus robustus</i>
<i>Triplophysa rosa</i> Chen & Yang 2005	Chongqing	Chen and Yang, 2005; Kottelat, 2012; Chen, 2013; Zhang and Zhao, 2016	—
<i>Triplophysa rotundiventris</i> (Wu & Chen 1979)	Qinghai, Xizang	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus rotundiventris;</i> <i>Quighaichthys rotundiventris</i>
<i>Triplophysa sanduensis</i>	Guizhou	Chen and Peng, 2019	—

Chen & Peng 2019

<i>Triplophysa scapanognatha</i>	Qinghai	Prokofiev, 2007	–
Prokofiev 2007			
<i>Triplophysa scleroptera</i> (Herzenstein 1888)	Qinghai	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus scleropterus</i>
<i>Triplophysa sellaefer</i> (Nichols 1925)	Henan, Shanxi	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Barbatula yarkandensis</i> <i>sellaefer</i>
<i>Triplophysa shaanxiensis</i> Chen 1987	Shaanxi	Zhu, 1989; Zhang and Zhao, 2016	–
<i>Triplophysa shilinensis</i> Chen & Yang 1992	Yunnan	Chen et al., 1992	–
<i>Triplophysa shiyangensis</i> (Zhao & Wang 1983)	Gansu	Kottelat, 2012	<i>Nemachilus shiyangensis</i>
<i>Triplophysa siluroides</i> (Herzenstein 1888)	Gansu, Qinghai	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus siluroides</i>
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<i>Triplophysa stenura</i> (Herzenstein 1888)	Qinghai, Xizang, Sichuan	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus stenurus</i>
<i>Triplophysa stewarti</i> (Hora 1922)	Qinghai, Xizang	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Diplophysa stewartia</i> ; <i>Nemachilus longianalis</i> ; <i>Nemachilus longianalis</i> <i>tangtianhensis</i>
<i>Triplophysa stolickai</i> (Steindachner 1866)	Qinghai, Xizang, Xinjiang, Gansu, Sichuan, Ningxia, Inner Mongolia	Talwar and Jhingran, 1991	<i>Cobitis stolickai</i> ; <i>Nemacheilus</i> <i>stoliczkae</i> ; <i>Cobitis uranoscops</i> Kessler, 1872, <i>Cobitis elegans</i> Kessler, 1874, <i>Nemachilus</i> <i>drosonotatus</i> Kessler, 1879, <i>Nemachilus dorsonotatus</i> <i>retropinnis</i> Herzenstein, 1888,

			<i>Nemachilus fedtschenkoae</i> Nikolskii, 1903
<i>Triplophysa strauchii</i> (Kessler 1874)	Xinjiang	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Diplophysa strauchii</i>
<i>Triplophysa tanggulaensis</i> (Zhu 1982)	Qinghai	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus tanggulaensis</i>
<i>Triplophysa tenuicauda</i> (Steindachner 1866)	Xizang	Zhu, 1989; Zhang and Zhao, 2016	<i>Cobitis tenuicauda</i>
<i>Triplophysa tenuis</i> (Day 1877)	Xinjiang, Gansu	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemacheilus tenuis</i> ; <i>Indotriplophysa tenuis</i>
<i>Triplophysa tianeensis</i> Chen, Cui & Yang 2004	Guangxi	Chen XY et al., 2004a	—
<i>Triplophysa tianlinensis</i> Li, Li, Lan & Du 2017	Guangxi	Li et al., 2017b	—
<i>Triplophysa tianxingensis</i> Yang, Li & Chen 2016	Yunnan	Yang et al., 2016	—
<i>Triplophysa tibetana</i> (Regan 1905)	Xizang	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	<i>Nemachilus tibetanus</i>
<i>Triplophysa turpanensis</i> Wu & Wu 1992	Xinjiang	Wu and Wu, 1992; Kottelat, 2012; Zhang and Zhao, 2016	—
<i>Triplophysa venusta</i> Zhu & Cao 1988	Yunnan	Zhu, 1989; Kottelat, 2012; Zhang and Zhao, 2016	—
<i>Triplophysa waisihani</i> Cao & Zhang 2008	Xinjiang	Cao and Zhang, 2008; Kottelat, 2012; Zhang and Zhao, 2016	—
<i>Triplophysa weiheensis</i> Feng, Zhang, Tong, Zhou & Zhao 2020	Gansu	Feng et al., 2020	—
<i>Triplophysa wuweiensis</i> (Li	Gansu	Zhu, 1989; Kottelat, 2012;	<i>Nemachilus wuweiensis</i>



& Chang 1974)		Zhang and Zhao, 2016	
<i>Triplophysa</i>	Yunnan	Li, 2004; Kottelat, 2012;	–
<i>xiangshuingsensis</i> Li 2004		Zhang and Zhao, 2016	
<i>Triplophysa xiangxiensis</i>	Hunan	Zhu, 1989; Kottelat, 2012;	<i>Noemacheilus xiangxiensis</i> ;
(Yang, Yuan & Liao 1986)		Zhang and Zhao, 2016	<i>Schistura xiangxiensis</i>
<i>Triplophysa xichangensis</i>	Sichuan	Zhu, 1989; Kottelat, 2012;	–
Zhu & Cao 1989		Zhang and Zhao, 2016	
<i>Triplophysa xichouensis</i>	Yunnan	Liu et al. , 2017	–
Liu, Pan, Yang & Chen			
2017			
<i>Triplophysa xingshanensis</i>	Hubei	Yang and Xie, 1983	<i>Nemachilus xingshanensis</i>
(Yang & Xie 1983)			
<i>Triplophysa xiqiensis</i> Ding	Sichuan	Kottelat, 2012	–
& Lai 1996			
<i>Triplophysa yajiangensis</i>	Sichuan	Yan et al., 2015	–
Yan, Sun & Guo 2015			
<i>Triplophysa yaopeizhii</i> Xu,	Xizang	Kottelat, 2012; Zhang and	–
Zhang & Cai 1995		Zhao, 2016	
<i>Triplophysa yarkandensis</i>	Xinjiang	Zhu, 1989; Kottelat, 2012;	<i>Nemacheilus yarkandensis</i> ;
(Day 1877)		Zhang and Zhao, 2016	<i>Nemachilus yarkandensis</i>
			<i>nordkansuensis</i> Li & Chang,
			1974; <i>Hedinichthys</i>
			<i>yarkandensis</i>
<i>Triplophysa yunnanensis</i>	Yunnan	Yang, 1990; Kottelat, 2012;	–
Yang 1990		Zhang and Zhao, 2016	
<i>Triplophysa zamegacephala</i>	Xinjiang	Wu and Wu, 1992; Kottelat,	<i>Nemachilus zamegacephalus</i> ;
(Zhao 1985)		2012; Zhang and Zhao, 2016	<i>Qinghaichthys</i>
			<i>zamegacephalus</i>
<i>Triplophysa zhaoi</i> Prokofiev	Xinjiang	Prokofiev, 2007; Kottelat,	–

2006			2012; Zhang and Zhao, 2016	
<i>Triplophysa zhenfengensis</i> Wang & Li 2001	Guizhou		Wang and Li, 2001; Zhang and Zhao, 2016	–
<i>Troglonectes acridorsalis</i> (Lan 2013)	Guangxi		Lan et al., 2013	<i>Oreonectes acridorsalis</i>
<i>Troglonectes barbatus</i> (Gan 2013)	Guangxi		Lan et al., 2013	<i>Oreonectes barbatus</i>
<i>Troglonectes daqikongensis</i> (Deng, Wen, Xiao & Zhou 2016)	Guizhou		Deng et al., 2016; Zhang and Zhao, 2016	<i>Oreonectes daqikongensis</i>
<i>Troglonectes elongatus</i> (Tang, Zhao & Zhang 2012)	Guangxi		Tang et al., 2012; Zhang and Zhao, 2016	<i>Oreonectes elongatus</i>
<i>Troglonectes furcicaudalis</i> (Zhu & Cao 1987)	Guangxi		Du et al., 2008; Zhang and Zhao, 2016	<i>Oreonectes furcicaudalis</i>
<i>Troglonectes macrolepis</i> (Huang, Du, Chen & Yang 2009)	Guangxi		Huang et al., 2009; Zhang and Zhao, 2016	<i>Oreonectes macrolepis</i>
<i>Troglonectes microphthalmus</i> (Du, Chen & Yang 2008)	Guangxi		Du et al., 2008; Zhang and Zhao, 2016	<i>Oreonectes microphthalmus</i>
<i>Troglonectes parva</i> (Zhu & Zhu, 2014)	Guangxi		Zhu and Zhu, 2014; Zhang and Zhao, 2016	<i>Heminoemacheilus parva</i>
<i>Troglonectes translucens</i> (Zhang, Zhao & Zhang 2006)	Guangxi		Zhang and Zhao, 2016	<i>Paracobitis maolanensis</i> Li, Ran et Chen, 2006; <i>Homatula maolanensis</i> (Li, Ran et Chen, 2006)
<i>Yunnanilus analis</i> Yang 1990	Yunnan		Yang, 1990	–
<i>Yunnanilus beipanjiangensis</i>	Yunnan		Li et al., 1994	–

Li, Mao & Sun 1994

<i>Yunnanilus chuanheensis</i>	Yunnan	Jiang et al., 2021	—
<i>Yunnanilus chui</i> Yang 1991	Yunnan	Yang, 1991	—
<i>Yunnanilus discoloris</i> Zhou & He 1989	Yunnan	Zhou and He, 1989	—
<i>Yunnanilus elakatis</i> Cao & Zhu 1989	Yunnan	Cao and Zhu, 1989	—
<i>Yunnanilus forkicaudalis</i> Li 1999	Yunnan	Li et al., 1999	—
<i>Yunnanilus jiuchiensis</i> Du, Hou, Chen & Yang, 2018	Sichuan	Du et al., 2018	—
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<i>Yunnanilus longibulla</i> Yang 1990	Yunnan	Yang, 1990	—
<i>Yunnanilus macrogaster</i> Kottelat & Chu 1988	Yunnan	Kottelat and Chu, 1988	—
<i>Yunnanilus macrolepis</i> Li, Tao & Mao 2000	Yunnan	Li et al., 2000	—
<i>Yunnanilus macrositanus</i> Li 1999	Yunnan	Li et al., 1999	—
<i>Yunnanilus</i> <i>nanpanjiangensis</i> Li, Mao & Lu 1994	Yunnan	Li et al., 1994	—
<i>Yunnanilus paludosus</i> Kottelat & Chu 1988	Yunnan	Kottelat and Chu, 1988	—
<i>Yunnanilus parvus</i> Kottelat & Chu 1988	Yunnan	Kottelat and Chu, 1988	—
<i>Yunnanilus pleurotaenia</i> (Regan 1904)	Yunnan	Kottelat and Chu, 1988	<i>Nemachilus pleurotaenia</i>
<i>Yunnanilus retrodorsalis</i>	Guangxi	Du et al., 2008, Kottelat, 2012;	<i>Oreonectes retrodorsalis</i>

(Lan, Yang & Chen 1995)		Zhang and Zhao, 2016	
<i>Yunnanilus sichuanensis</i>	Sichuan	Ding, 1995	–
Ding 1995			
<i>Yunnanilus spanisbripes</i> An,	Yunnan	An et al., 2009	–
Liu & Li 2009			

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**Appendix II.** Material used in this study with localities, specimen catalogue, numbers and preserved museum.

Species	Locality	Specimen catalogue	Numbers	Preserved museum
<i>E. altus</i>	Zhanyi County, Yunnan	1987002427–2471, 1977001321–1378	85	KIZ
	Luoping County, Yunnan	1977000824–893	70	KIZ
	Luliang County, Yunnan	2004015112–15116	5	KIZ
<i>E. bajiangensis</i>	Heilongtan Reservoir, Shilin County, Yunnan	9504004, 8 uncat	9	L.W. Xian
<i>E. caohaiensis</i>	Caohai Lake, Guizhou	1990004187–4191, 1996003121–3128	13	KIZ
	Qujing City, Yunnan	2013005179–5194, 2013000636–637,639–659	39	KIZ
	Songming County, Yunnan	2006007679–7752	74	KIZ
<i>E. longidorsalis</i>	Agang Longtan, Luoping County, Yunnan	9506001–3, 5 uncat	8	L.W. Xian
<i>E. niger</i>	Luoping County, Yunnan	1980001275	1	KIZ
	Kunming Market, Yunnan	2014000095–96, 3238	3	KIZ
<i>E. nigromaculatus</i>	Luquan Town, Kunming City, Yunnan	2015003545–3612, 0000001694–1697, 2008006923–6924	74	KIZ



<i>E. obtusirostris</i>	Xingyun Lake, Jiangchuan County, Yunnan	0000000405–419	15	KIZ
	Fuxian Lake, Chengjiang County, Yunnan	1987004000–4003, 5735	5	KIZ
<i>E. pachycephalus</i>	Xuanwei County, Yunnan	1982002824–2900	77	KIZ
	Xundian County, Yunnan	1982001430–1431, 2006007753–7952	202	KIZ
<i>H. bailianensis</i>	Liuzhou City, Guangxi	CLJH12030088–90, 92, 94, 96, GXNUGXNU201801–4	10	GXNU, CLJH
<i>H. hyalinus</i>	Du'an County, Guangxi	KIZ19940011–16, GXNU202001–3	9	KIZ, GXNU
<i>H. longibarbatus</i>	Du'an County, Guangxi	2002009728–9781, 2003006013–25	67	KIZ
<i>H. zhengbaoshani</i>	Liuye Township, Dahua County, Guangxi	GXNU201805–8, KIZ2008007337–7338	5	GXNU, KIZ
<i>M. pulcherrimus</i>	Du'an County, Guangxi	1999003089–3093, 1999001786–1787, 2001003715–3724, 2002005673–5674	19	KIZ
<i>Oreonectes anophthalmus</i>	Wuming County, Guangxi	KIZ1994000038–42	5	KIZ
<i>O. guananensis</i>	Huanjiang County, Guangxi	KIZ2010003067–2072	6	KIZ
<i>O. luochengensis</i>	Luocheng County, Guangxi	KIZ2010003073–3077	5	KIZ
<i>O. platycephalus</i>	Jinxiu County,	KIZ1989001538–1554, KIZ2003007105–7121,	39	KIZ

	Guangxi	2005012075–12079		
<i>O. polystigmus</i>	Guilin City, Guangxi	KIZ2001004626–4634	9	KIZ
<i>Paranemachilus genilepis</i>	Fusui County, Guangxi	201908001–5	5	GXNU
<i>P. jinxiensis</i>	Jingxi County, Guangxi	2008008627–8631	5	KIZ
<i>P. pingguoensis</i>	Pingguo County, Guangxi	20111001–5	5	GXNU
<i>Protonemacheilus longipectoralis</i>	Luxi County, Yunnan	KIZ8310108	1	KIZ
<i>Traccaticthys pulcher</i>	Du'an County, Guangxi	KIZ1991000516–543, KIZ2002009993–9994	31	KIZ
	Lipu County, Guangxi	KIZ1997000449–520, 529–540, KIZ2002010086–10097, KIZ2011001947–1950, 2094–2097	104	KIZ
	Yangsuo County, Guangxi	KIZ1997000521–528	8	KIZ
	Rongjiang County, Guangxi	KIZ1999001173–1180	9	KIZ
	Jiulongjiang, Fujian	KIZ1999001181–1182	2	KIZ
	Jinxiu County, Guangxi	KIZ200013245–246, 13845–13866, KIZ2002004772–4818, KIZ2003000953–987, KIZ2005003156–3161, 3777–3780, 3854–3860, 3880–3921, 7689–7710, 8410–8414, 9270–9287, 9606–9611, 10236–10250, 13216–13218, 13245–13866	258	KIZ

	Shangen County, Guangxi	KIZ2009003921–3926, KIZ2002006862–6908	53	KIZ
	Liuzhou City, Guangxi	KIZ2011001585–1661	28	KIZ
	Mengshan County, Guangxi	KIZ2002010120–10134	15	KIZ
	Gongcheng County, Guangxi	KIZ2002009935, 2002010019	2	KIZ
	Baisha County, Hainan Island	KIZ2008003457–3482, KIZ2012003646, 3896–3901, 3739–3740, 3786–3791	31	
	Baoting City, Hainan Island	KIZ2008004278–4295	18	
	Wuzhishan City, Hainan Island	KIZ2008003530, 3556–3557, 6268–6271, 6329–6331	10	
<i>Troglonectes furcicaudalis</i>	Du'an County, Guangxi	KIZ1993001631–1635	5	KIZ
<i>T. macrolepis</i>	Huanjiang County, Guangxi	KIZ2008007294–7230, 7232–7234, 8131	13	KIZ
<i>T. microphthalmus</i>	Luocheng County, Guangxi	KIZ2003007094–7104	11	KIZ
		KIZ2004009394–9399	6	KIZ
<i>Yunnanilus analis</i>	Xingyun Lake, Jiangchuan County, Yunnan	1960000625–626	2	KIZ
<i>Y. beipanjiangensis</i>	Zhanyi County, Yunnan	FACQR9107016, 9107017, 9 uncat	11	L.W. Xian
<i>Y. chuanheensis</i>	Nanjian County, Yunnan	KIZ2016007379–90	12	KIZ

<i>Y. chui</i>	Fuxian Lake, Chengjiang County, Yunnan	1989001596	1	KIZ
<i>Y. discoloris</i>	Chenggong County, Kunming City, Yunnan	1006001997–1999, 1983000938–944, 2000001922–1931, 20080000013–15, 2006009470	24	KIZ
<i>Y. jiuchiensis</i>	Pengzhou City, Yunnan	KIZ2018000001–9, GXNU201810-13	13	KIZ, GXNU
<i>Y. longibulla</i>	Chenghai Lake, Yongsheng County, Yunnan	KIZ1981002779–3061, 1981002383–2393	294	KIZ
<i>Y. macrogaster</i>	Luoping County, Yunnan	KIZ1980004273–4274	2	KIZ
<i>Y. macrolepis</i>	Luoping County, Yunnan	HRAS9509001, 9509003, 9506997, 2 uncat.	5	L.W. Xian
<i>Y. nanpanjiangensis</i>	Agang Town, Luoping County, Yunnan	FACQR9191108, 13–14, 22, 29, 34	6	L.W. Xian
<i>Y. paludosus</i>	Zhanyi County, Yunnan	KIZ1977000818–823	6	KIZ
	Luoping County, Yunnan	KIZ1980001276–1281	6	KIZ
<i>Y. parvus</i>	Kaiyuan County, Yunnan	KIZ1984001244–120	17	KIZ

<i>Y. pleurotaenia</i>	Kunming City, Yunnan	KIZ1008000335–336, KIZ1987002860, KIZ1996003216–3225, KIZ2000001932–1958, KIZ2004012484, KIZ2004014783, KIZ2004015185, KIZ2006000051, 2466–2487, 2660–2685, 5912–5947, 9473, KIZ200700394, KIZ2008000009–12, KIZ2008005976– 5981, KIZ2012003148–3150, KIZ2015002809–2815, 2901–2904, 2929–2957, 3048–3070, 3137, 3141–3153, 3536, KIZ1978000853–864,	235	KIZ
	Fuxian Lake, Chengjiang County, Yunnan	KIZ1979001122–1132, KIZ1987002861–2883, KIZ1988003256–3259, KIZ1989000860–907, 910–984	168	KIZ
	Dali City, Yunnan	KIZ2004014278–14412, KIZ2016007355–7386 KIZ1987002884–2897,	166	KIZ
	Yiliang County, Yunnan	KIZ2008005911–5912, KIZ2009000189–193, 206–212	14	KIZ
<i>Y. retradorsalis</i>	Nandan County, Guangxi	KIZ1991003951–3957	7	KIZ
<i>Y. spanisbripes</i>	Qujing City, Yunnan	HRAS199504007, 9309023, 920703001–7, 200306011	9	L.W. Xian
<i>Y. sp.</i>	Qujing City, Yunnan	KIZ2006009148–9169	22	KIZ
Total			2494	