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## Checklist of Nemobiinae from China (Orthoptera: Trigonidiidae)

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**Abstract**

This study presents all known Chinese Nemobiinae from 1869 to 2015 as a summarized checklist that includes currently valid names and synonyms for the fauna with their distributions. A total of 35 species and 9 genera were to occur in Chinese fauna. Also, we correct a homonym, viz. *Pteronemobius (Pteronemobius) ruficeps* Liu & Shi, 2014, the proposed replacement name is *P. (P.) jianfenglingensis* Liu & Shi, nom. nov.

**Keywords:** Orthoptera, Nemobiidae, Checklist, nom. nov., China

**1. Introduction**

First used as Nemobiinae by Hebard (1933) [24], priority for subfamily name based on *Nemobius* dates from Nemobiites Saussure, 1877. Up until now, it includes 54 valid genera and 326 valid species, and mostly distributed in tropics and subtropics (Eades, Otte, Cigliano & Braun, 2016) [18]. Yin & Liu (1995) [61] published a comprehensive study "Synopsis on the Classification of Grylloidea and Gryllotalpoidea from China", included 3 genera and 18 species of Chinese Nemobiinae.

This paper provides a specific checklist of Chinese Nemobiinae, which includes 35 species from 9 genera. New datas on distribution of some species of this subfamily in China are reported. *Pteronemobius (Pteronemobius) ruficeps* Liu & Shi, 2014, a homonym, priority for specific name based on *Pteronemobius ruficeps* from Chopard (1962) [14], the proposed replacement name is *P. (P.) jianfenglingensis* Liu & Shi, nom. nov.

**2. Materials and Methods**

The "Orthoptera Species File" (Version 5.0/5.0), an online catalog system was accessed to obtain an overall outline of this checklist (Eades, Otte, Cigliano & Braun, 2016) [18]. On the basis of Yin & Liu (1995) [61], we collected the references of Nemobiinae (1869-2015) [41]. Examined specimens are deposited in the Museum of Hebei University, Baoding, China (MHBUS).

**3. List of the Species****Subfamily Nemobiinae Saussure, 1877**

Nemobiites Saussure, 1877: 65.

Nemobiinae Saussure: Hebard, 1933: 63. Type genus: *Nemobius* Serville, 1838.

**Tribe Marinemobiini Gorochoy, 1985**

Marinemobiini Gorochoy, 1985: 98. Type genus: *Marinemobius* Gorochoy, 1985.

**Genus *Caconemobius* Kirby, 1906**

*Caconemobius* Kirby, 1906: 13. Type species: *Paranemobius schauinslandi* Alfken, 1901.

*Paranemobius* Alfken, 1901: 145. Synonymised by Kirby 1906: 13.

*Parapteronemobius* Furukawa, 1970: 59. Synonymised by Ichikawa, 1999: 113.

**3.1. *Caconemobius dibrachiatus* Ma & Zhang, 2015**

*Caconemobius dibrachiatus* Ma & Zhang: In Ma, Zhang & Qi, 2015: 587.

Distribution. China (Guangdong).

**Genus *Marinemobius* Gorochoy, 1985**

*Marinemobius* Gorochoy, 1985: 98. Type species: *Apteronomobius asahinai* Yamasaki, 1979.

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**3.2. *Marinemobius asahinai* (Yamasaki, 1979)**

*Marinemobius asahinai* Yamasaki, 1979: 81.  
*Marinemobius asahinai*: Gorochov, 1985: 98; Otte, 1994: 29; Yin & Liu, 1995: 18.  
 Distribution. China (Hainan). – Japan.

**Tribe Nemobiini Saussure, 1877**

Nemobiites Saussure, 1877: 65.  
 Nemobiini Saussure: Vickery, 1973: 419. Type genus: *Nemobius* Serville, 1838.

**Genus *Speonemobius* Chopard, 1924**

*Speonemobius* Chopard, 1924: 84. Type species: *Speonemobius decoloratus* Chopard, 1924.

**3.3. *Speonemobius sinensis* Li, He & Liu, 2010**

*Speonemobius sinensis* Li, He & Liu, 2010: 60.  
 Distribution. China (Zhejiang).

**Tribe Pteronemobiini Otte & Alexander, 1983**

Pteronemobiini Otte & Alexander, 1983: 164. Type genus: *Pteronemobius* Jacobson, 1904.

**Genus *Dianemobius* Vickery, 1973**

*Dianemobius* Vickery, 1973: 421. Type species: *Eneoptera fascipes* Walker, 1869.

**3.4. *Dianemobius chibae* (Shiraki, 1911)**

*Nemobius chibae* Shiraki, 1911: 82.  
*Pteronemobius chibae*: Chopard, 1967: 171.  
*Dianemobius (Dianemobius) chibae*: Otte, 1994: 31; Yin & Liu, 1995: 20.  
*Dianemobius chibae*, Liu, Yang, Mok & Yang, 1998: 75; Ichikawa, Murai & Honda, 2000: 291.  
*Cyrtoxipha sononae* Shiraki, 1911: 116. Synonymised by Chopard, 1967: 171.  
 Distribution. China (Taiwan, Beijing, Fujian). – Japan.

**3.5. *Dianemobius chinensis* Gorochov, 1984**

*Dianemobius chinensis* Gorochov, 1984: 246.  
*Dianemobius (Dianemobius) chinensis*: Otte, 1994: 31; Yin & Liu, 1995: 20.  
 Material Examined. Guizhou Province: Libo, 24.VIII 2000, 1♀, Fuming Shi leg.; Libo, 21.VIII 2000, 1♀, Fuming Shi leg.  
 Distribution. China (Fujian, Guizhou).  
 Notes. Here this species is firstly recorded from Guizhou Province.

**3.6. *Dianemobius csikii* (Bolívar, 1901)**

*Nemobius csikii* Bolívar, 1901: 243.  
*Pteronemobius csikii*: Chopard, 1925: 507.  
*Dianemobius csikii*: Gorochov, 1981: 24; Ichikawa, Murai & Honda, 2000: 291; Storozhenko, 2004: 224; Storozhenko & Paik, 2007: 107.  
*Dianemobius (Dianemobius) csikii*: Gorochov, 1983: 46; Otte, 1994: 31; Yin & Liu, 1995: 20.  
*Nemobius ambiguus* Shiraki, 1936: 12. Synonymised by Gorochov, 1985: 97.  
 Material Examined. Yunnan Province: Jiping county: Adebo, 19.VII 2006, 1♂2♀, Haoyu Liu leg.  
 Distribution. China (Beijing, Hebei, Inner Mongolia, Sichuan, Hainan, Yunnan, Taiwan). – Japan, Korea, Russian (Far East), Nepal, India, Sri Lanka.  
 Notes. Here this species is firstly recorded from Yunnan Province.

**3.7. *Dianemobius fascipes fascipes* (Walker, 1869)**

*Eneoptera fascipes* Walker, 1869: 67.  
*Cyrtoxipha fascipes*: Kirby, 1906: 81.  
*Pteronemobius fascipes*: Chopard, 1932: 1.  
*Dianemobius fascipes*: Vickery, 1973: 420; Liu, Yang, Mok & Yang, 1998: 67; Ichikawa, Murai & Honda, 2000: 290.  
*Dianemobius (Dianemobius) fascipes*: Otte, 1994: 31; Yin & Liu, 1995: 20.  
*Dianemobius fascipes fascipes*: Gorochov, 1983: 46; Liu & Shi, 2014a: 349; Kim & Pham, 2014: 62.  
*Eneoptera alboatra* Walker, 1871: 11. Synonymised by Chopard, 1967: 169.  
*Nemobius histrio* Saussure, 1877: 35. Synonymised by Chopard, 1967: 169.  
*Nemobius nigrosignatus* Brunner von Wattenwyl, 1893: 196. Synonymised by Chopard, 1967: 170.  
 Material Examined. Hunan Province: Sangzhi County: Xishaping, Jiangxiping, 12.X 2014, 2♂3♀, Jianhuan Huang leg.  
 Distribution. China (Shanghai, Zhejiang, Hubei, Hunan, Fujian, Jiangxi, Guangdong, Hainan, Yunnan, Taiwan). – Myanmar, Vietnam, Japan, Singapore, India, Sri Lanka, Indonesia.  
 Notes. Here this species is firstly recorded from Hunan Province.

**3.8. *Dianemobius fascipes nigrofasciatus* (Matsumura, 1904)**

*Nemobius nigrofasciatus* Matsumura, 1904: 138.  
*Pteronemobius nigrofasciatus*: Hsu, 1928: 33; Shiraki, 1930: 192.  
*Dianemobius nigrofasciatus*: Kwon, 1994: 50; Ichikawa, Murai & Honda, 2000: 291; Storozhenko, Kim & Jeon, 2015: 130.  
*Dianemobius (Dianemobius) nigrofasciatus*: Otte, 1994: 31.  
*Dianemobius fascipes nigrofasciatus*: Gorochov, 1983: 46; Storozhenko, 2004: 221; Storozhenko & Paik, 2007: 106; Liu, 2013: 73; Storozhenko, Kim & Jeon, 2015: 130.  
 Distribution. China (Beijing, Hubei, Inner Mongolia, Jilin, Shandong). – Korea, Japan, Russian (Far East, Siberia).

**3.9. *Dianemobius furumagiensis* (Ohmachi & Furukawa, 1929)**

*Nemobius furumagiensis* Ohmachi & Furukawa, 1929: 374.  
*Pteronemobius furumagiensis*: Chopard, 1967: 171.  
*Dianemobius (Dianemobius) furumagiensis*: Gorochov, 1985: 97; Otte, 1994: 31; Yin & Liu, 1995: 20.  
*Dianemobius furumagiensis*: Gorochov, 1983: 46; Liu, Yang, Mok & Yang, 1998: 96; Ichikawa, Murai & Honda, 2000: 291; Storozhenko, 2004: 223; Storozhenko & Paik, 2007: 107; Storozhenko, Kim & Jeon, 2015: 131.  
*Nemobius albobasalis* Shiraki, 1936: 12. Synonymised by Gorochov, 1985: 97.  
 Material Examined. Hebei Province: Shunping County: Gaoyupu, 21.IX 1998, 1♀, Jianhuan Huang leg.  
 Distribution. China (Inner Mongolia, Hebei, Zhejiang, Shandong, Guangxi, Sichuan, Taiwan). – Korea, Japan, Russian (Far East, Siberia), Afghanistan.  
 Notes. Here this species is firstly recorded from Hebei Province.

**3.10. *Dianemobius jucundus* Liu & Yang, 1998**

*Dianemobius jucundus* Liu & Yang: In Liu, Yang, Mok & Yang, 1998: 103.  
 Distribution. China (Taiwan).

**3.11. *Dianemobius kimurae* (Shiraki, 1911)**

*Nemobius kimurae* Shiraki, 1911: 79.  
*Dianemobius (Dianemobius) kimurae*: Yin & Liu, 1995: 21.  
*Dianemobius kimurae*: Liu, Yang, Mok & Yang, 1998: 80.  
 Distribution. China (Taiwan).

**3.12. *Dianemobius protransversus* Liu & Yang, 1998**

*Dianemobius protransversus* Liu & Yang: In Liu, Yang, Mok & Yang, 1998: 109.  
 Distribution. China (Taiwan).

**3.13. *Dianemobius wulaius* Liu & Yang, 1998**

*Dianemobius wulaius* Liu & Yang: In Liu, Yang, Mok & Yang, 1998: 116.  
 Distribution. China (Taiwan).

**3.14. *Dianemobius zhengi* Chen, 1994**

*Dianemobius zhengi* Chen, 1994: 66.  
 Distribution. China (Sichuan).

**Genus *Polionemobius* Gorochov, 1983**

*Dianemobius (Polionemobius)* Gorochov, 1983: 44.  
*Polionemobius*: Gorochov, 1986: 18. Type species:  
*Trigonidium taprobanense* Walker, 1869

**3.15. *Polionemobius annulicornis* Li, He & Liu, 2010**

*Polionemobius annulicornis* Li, He & Liu, 2010: 61.  
 Distribution. China (Yunnan).

**3.16. *Polionemobius flavoantennalis* (Shiraki, 1911)**

*Nemobius flavoantennalis* Shiraki, 1911: 84.  
*Pteronemobius flavoantennalis*: Chopard, 1936: 9.  
*Dianemobius (Polionemobius) flavoantennalis*: Gorochov, 1985: 98; Yin & Liu, 1995: 20.  
*Polionemobius flavoantennalis*: Ichikawa, Murai & Honda, 2000: 292; Storozhenko & Paik, 2007: 108; Liu & Shi, 2014a: 351; Storozhenko, Kim & Jeon, 2015: 133.  
 Distribution. China (Shanghai, Jiangsu, Zhejiang, Shandong, Jiangxi, Guizhou, Taiwan). – Korea, Japan.

**3.17. *Polionemobius taprobanensis* (Walker, 1869)**

*Trigonidium taprobanense* Walker, 1869: 102.  
*Nemobius taprobanensis*: Saussure, 1877: 87.  
*Pteronemobius taprobanensis*: Uvarov, 1926: 288.  
*Dianemobius taprobanensis*: Gorochov, 1981: 24.  
*Dianemobius (Polionemobius) taprobanensis*: Gorochov, 1983: 43; Yin & Liu, 1995: 20.  
*Polionemobius taprobanensis*: Ichikawa, Murai & Honda, 2000: 292; Storozhenko & Paik, 2007: 108; Liu & Shi, 2014a: 351.  
*Nemobius infernalis* Saussure, 1877: 168. Synonymised by Chopard, 1967: 168.  
*Nemobius javanus* Saussure, 1877: 85. Synonymised by Chopard, 1967: 169.  
*Eneoptera lateralis* Walker, 1871: 11. Synonymised by Chopard, 1967: 169.  
*Nemobius mikado* Shiraki, 1911: 81. Synonymised by Storozhenko, Kim & Jeon, 2015: 133.  
 Distribution. China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Beijing, Hebei, Henan, Shandong, Jiangsu, Shanghai, Zhejiang, Jiangxi, Hubei, Fujian, Hainan, Guangxi, Sichuan, Guizhou, Yunnan). –India, Pakistan, Sri Lanka, Malaysia, Myanmar, Indonesia, Japan, Korea, Maldives, Bangladesh.

**3.18. *Polionemobius yunnanus* Liu & Shi, 2014**

*Polionemobius yunnanus* Liu & Shi, 2014b: 3.  
 Distribution. China (Yunnan).

**Genus *Pteronemobius* Jacobson, 1904**

*Pteronemobius* Jacobson, 1904: 450. Type species: *Nemobius tartarus* Saussure, 1874.

**3.19. *Pteronemobius (Pteronemobius) caudatus* (Shiraki, 1911)**

*Nemobius caudatus* Shiraki, 1911: 91.  
*Pteronemobius caudatus*: Chopard, 1937: 140; Yin & Liu, 1995: 23; Liu, Yang, Mok & Yang, 1998: 59.  
 Distribution. China (Taiwan).

**3.20. *Pteronemobius (Pteronemobius) heydenii concolor* (Walker, 1871)**

*Eneoptera concolor* Walker, 1871: 10.  
*Cyrtoxipha concolor*: Kirby, 1906: 81.  
*Pteronemobius concolor*: Chopard, 1967: 13; Yin & Liu, 1995: 24.  
*Pteronemobius heydenii concolor*: Uvarov, 1926: 163; Gorochov, 1985: 96; Ingrisich, 2001: 154.  
*Pteronemobius (Pteronemobius) heydenii concolor*: Kim & Pham, 2014: 62.  
*Nemobius ceylonicus* Saussure, 1877: 86. Synonymised by Chopard, 1967: 161.  
*Pteronemobius gravelyi* Chopard, 1924: 183. Synonymised by Uvarov, 1926: 163.  
*Nemobius heydeni rhenanus* Krauss, 1909: 1. Synonymised by Chopard, 1967: 162.  
*Nemobius saussurei* Burr, 1898: 52. Synonymised by Chopard, 1967: 161.  
*Nemobius tartarus schelkovnikovi* Stshelkanovtzev, 1917: 59. Synonymised by Chopard, 1967: 162.  
*Pteronemobius vittenei* Berland & Chopard, 1922: 235. Synonymised by Uvarov, 1926: 163.  
 Distribution. China (Jilin, Inner Mongolia, Hainan, Yunnan, Xizang, Xinjiang). –Vietnam, Nepal, India, Sri Lanka, Macedonia, Turkmenistan, Romania, Austria.

**3.21. *Pteronemobius (Pteronemobius) indicus* (Walker, 1869)**

*Nemobius indicus* Walker, 1869: 58.  
*Pteronemobius indicus*: Chopard, 1967: 167; Chopard, 1969: 159; Yin & Liu, 1995: 24.  
*Pteronemobius (Pteronemobius) indicus*: Kim & Pham, 2014: 62.  
*Nemobius vagus* Walker, 1871: 10. Synonymised by Chopard, 1967: 168.  
 Distribution. China (Hubei, Guangxi, Hainan, Yunnan). – Vietnam, India, Sri Lanka, Myanmar, Malaysia, Indonesia.

**3.22. *Pteronemobius (Pteronemobius) jianfenglingensis* Liu & Shi, nom. nov.**

*Pteronemobius ruficeps* Chopard, 1962: 38.  
*Pteronemobius (Pteronemobius) ruficeps* Liu & Shi, 2014c: 19.  
 Notes. The specific name *P. ruficeps* involves two species, the latter is a homonym and needs a new name. Thus, we rename it *P. (P.) jianfenglingensis*, the new name is derived from type locality, Jianfengling, Hainan, China.  
 Distribution. China (Hainan).

**3.23. *Pteronemobius (Pteronemobius) kangdingensis* Liu & Shi, 2014**

*Pteronemobius (Pteronemobius) kangdingensis* Liu & Shi, 2014c: 21.

Distribution. China (Sichuan).

**3.24. *Pteronemobius (Pteronemobius) kinuræ* (Shiraki, 1911)**

*Nemobius kinuræ* Shiraki, 1911: 79.

*Pteronemobius kinuræ*: Chopard, 1967: 171.

Distribution. China (Taiwan).

**3.25. *Pteronemobius (Pteronemobius) neimongolensis* Kang & Mao, 1990**

*Pteronemobius neimongolensis*, Kang & Mao, 1990: 201; Yin & Liu, 1995: 25.

Distribution. China (Jilin, Inner Mongolia).

**3.26. *Pteronemobius (Pteronemobius) nigriscens* (Shiraki, 1911)**

*Nemobius nigriscens* Shiraki, 1911: 87.

*Pteronemobius nigriscens*: Chopard, 1967: 172; Ichikawa, Murai & Honda, 2000: 292.

Distribution. China (Taiwan). –Japan.

**3.27. *Pteronemobius (Pteronemobius) nitidus* (Bolívar, 1901)**

*Nemobius nitidus* Bolívar, 1901: 242.

*Pteronemobius nitidus*: Chopard, 1933: 2; Gorochov, 1983: 43; Gorochov, 1985: 131; Yin & Liu, 1995: 25; Storozhenko & Paik, 2007: 108; Liu & Shi, 2014a: 352.

*Pteronemobius (Pteronemobius) nitidus*: Storozhenko, Kim & Jeon, 2015: 130.

*Nemobius filchneræ* Karny, 1908: 23. Synonymised by Chopard, 1967: 170.

Distribution. China (Beijing, Hebei, Jiangsu, Zhejiang, Fujian, Shandong, Hunan, Guangdong, Guangxi, Sichuan, Yunnan, Ningxia). –Korea, Japan, Russian (Far East).

**3.28. *Pteronemobius (Pteronemobius) pilicornis* Chopard, 1969**

*Pteronemobius pilicornis* Chopard, 1969: 167; Wang, Zheng & Woo, 1999: 112.

Distribution. China (Fujian). –Myanmar.

**3.29. *Pteronemobius (Pteronemobius) qinghaiensis* Yin, 1998**

*Pteronemobius qinghaiensis* Yin, 1998: 29.

Distribution. China (Qinghai).

**3.30. *Pteronemobius (Pteronemobius) taibaiensis* Xu & Deng, 2006**

*Pteronemobius taibaiensis* Xu & Deng, 2006: 127.

Distribution. China (Shaanxi).

**3.31. *Pteronemobius yunnanicus* Li, He & Liu, 2010**

*Pteronemobius yunnanicus* Li, He & Liu, 2010: 62.

Distribution. China (Yunnan).

**Genus *Stenonemobius* Gorochov, 1981**

*Stenonemobius* Gorochov, 1981: 21. Type species: *Nemobius gracilis* Jakovlev, 1871.

**3.32. *Stenonemobius (Ocellonemobius) bicolor bicolor* (Saussure, 1877)**

*Nemobius bicolor* Saussure, 1877: 98.

*Pteronemobius bicolor*: Chopard, 1935: 285; Yin & Liu, 1998: 23.

*Stenonemobius (Ocellonemobius) bicolor*: Gorochov, 1984: 622.

*Stenonemobius (Ocellonemobius) bicolor bicolor*: Kim & Pham, 2014: 62.

Distribution. China (Hainan). –India, Vietnam.

**3.33. *Stenonemobius sinensis* Li, He & Liu, 2010**

*Stenonemobius sinensis* Li, He & Liu, 2010: 60.

Distribution. China (Zhejiang).

**Uncertain status (not belong to any tribe)****Genus *Homonemobius* Chopard, 1935**

*Homonemobius* Chopard, 1935: 285. Type species: *Nemobius monomorphus* Bolívar, 1900.

**3.34. *Homonemobius nigrus* Li, He & Liu, 2010**

*Homonemobius nigrus* Li, He & Liu, 2010: 59.

Distribution. China (Yunnan).

**Genus *Taiwanemobius* Yang & Chang, 1996**

*Taiwanemobius* Yang & Chang, 1996: 61. Type species: *Taiwanemobius formosanus* Yang & Chang, 1996

**3.35. *Taiwanemobius formosanus* Yang & Chang, 1996**

*Taiwanemobius formosanus* Yang & Chang, 1996: 61.

Distribution. China (Taiwan).

**4. Discussion**

We checked all known Chinese Nemobiinae based on the online catalog system (OSF online) and prior references, and 35 species (included subspecies) from 9 genera were listed. This is more than the current result of 27 species as suggested in OSF online, also significantly more than 18 species in Yin & Liu (1995). The number of the genera in Nemobiinae as the followings: *Pteronemobius* Jacobson (13) > *Dianemobius* Vickery (11) > *Polionemobius* Gorochov (4) > *Stenonemobius* Gorochov (2), and *Caconemobius* Kirby, *Marinemobius* Gorochov, *Speonemobius* Chopard, *Homonemobius* Chopard and *Taiwanemobius* Yang & Chang have 1 species respectively.

The MHBUS has accumulated diverse Grylloidea collections, which much more datas on taxonomy and biogeography. Once this material is fully identified, an increase in the Chinese known Nemobiinae diversity will be expected.

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