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## 【Research report】

### 中國黽椿科昆蟲名錄 (半翅目) 【研究報告】

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## Abstract

### 摘要

黽椿型昆蟲屬於半水生半翅目昆蟲，生活於各種水體的表層，並常出沒於潮濕的岸邊。迄今全世界已記錄約1300多種，中國黽椿型昆蟲種類約占全句界種類的6.5%，計有科31屬93種。

### Key words:

**關鍵詞:** 半翅目、黽椿型、中國。

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# A Checklist of Gerromorpha from China (Hemiptera)

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## ABSTRACT

A checklist and distributional records for the Gerromorpha (Hemiptera) of China is provided. The list comprises 93 species in 31 genera and 5 families.

**Key words:** Hemiptera, Gerromorpha, China.

## 中國黽蟾科昆蟲名錄(半翅目)

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## 摘 要

黽蟾型昆蟲屬於半水生半翅目昆蟲，生活於各種水體的表層，並常出沒於潮濕的岸邊。迄今全世界已記錄約 1300 多種，中國黽蟾型昆蟲種類約占全世界種類的 6.5%，計有 5 科 31 屬 93 種。

**關鍵詞：**半翅目，黽蟾型，中國。

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## Introduction

In 1933, W. E. Hoffmann published his "Preliminary list of the aquatic and semi-aquatic Hemiptera of China, Korea and Indo-China" which was followed up in 1941 by his "Catalogue of aquatic Hemiptera" from the same geographical areas. Hoffmann (1941) recorded 32 species (in 16 genera) of Gerridae, 3 (2) of Hebridae, 5 (1) of Hydrometridae, 2 (1) of Mesoveliidae, and 3 species (in 2 genera) of Veliidae from China, including Hong Kong and Taiwan. Since then, several species have been added to the Chinese fauna by T. Esaki, O. Lundblad, H. B. Hungerford, S. Miyamoto, and the authors, but no comprehensive list has been published since Hoffmann's catalogue.

The present checklist of the semi-aquatic bugs (infraorder Gerromorpha) of China is based upon our own examination of the collections deposited in the Department of Biology, Nankai University, the Natural History Museum, Tianjin, and the Institute of Zoology, Academia Sinica, Beijing. A number of new records have been extracted from materials on loan to one of us (NMA), belonging to several institutions in Europe and North America. Finally, the check-list also includes records from the literature which we consider reliable. For each species, the distributional data are given as provincial names in alphabetical order.

The purpose of the following check-list is to offer a basic knowledge of the fauna of gerromorphan bugs of China and to stimulate further work in this field. According to the list, a total 61 species (in 17 genera) of Gerridae, 10 (3) of Hebridae, 7 (1) of Hydrometridae, 2 (1) of Mesoveliidae, and 13 species (in 9 genera) of Veliidae have so far been recorded from China. This means that 93 species or about 6.5% of the world fauna of Gerromorpha are known from China. Further studies and field work will probably increase the number of species, in par-

ticular in the family Veliidae and in some taxonomically difficult genera of Gerridae.

## The List of Gerromorpha from China

### Family Gerridae 黽蝽科

#### Subfamily Eotrechinae 始黽蝽亞科

1. *Amemboa esakii* Polhemus & Andersen, 1984 江崎氏東方黽蝽  
Distribution: Taiwan.
2. *Amemboa fumi* Esaki, 1925 臺灣東方黽蝽  
Distribution: Taiwan.
3. *Eotrechus brevipes* Andersen, 1982 短足始黽蝽  
Distribution: Fujian.
4. *Eotrechus sinensis* Andersen, 1982 中華始黽蝽  
Distribution: Fujian.
5. *Onychotrechus esakii* Andersen, 1980 淡色瘦黽蝽  
Distribution: Guangxi, Hong Kong.

#### Subfamily Gerrinae 黽蝽亞科

6. *Aquarius adelaidis* (Dohrn, 1860) 銳臀大黽蝽  
Distribution: Hainan.
7. *Aquarius elongatus* (Uhler, 1896) 長翅大黽蝽  
Distribution: Fujian, Hainan, Henan, Hubei, Jiangsu, Jiangxi, Shandong, Sichuan, Taiwan, Zhejiang.
8. *Aquarius paludum* (Fabricius, 1794) 圓臀大黽蝽  
Distribution: all provinces of China.
9. *Gerris angulatus* Lundblad, 1934 角腹黽蝽  
Distribution: Gansu, Inner Mongolia.
10. *Gerris babai* Miyamoto, 1958 黑黽蝽  
Distribution: Heilongjiang, Sichuan, Tianjin.
11. *Gerris sahlbergi* Distant, 1879 顯脈黽蝽

- Distribution: ? Fujian, Hebei, Inner Mongolia
12. *Gerris cui* Esaki, 1925 臺灣黾蝽  
Distribution: Taiwan.
  13. *Gerris gracilicornis* (Horváth, 1879)  
細角黾蝽  
Distribution: Fujian, Guangdong, Guangxi, Guizhou, Hebei, Ningxia, Shaanxi, Sichuan, Taiwan, Tianjin, Yunnan
  14. *Gerris issikii* Miyamoto, 1961  
一色氏黾蝽  
Distribution: Taiwan.
  15. *Gerris lacustris* (L., 1758)  
北方黾蝽  
Distribution: Heilongjiang, Inner Mongolia, Xinjiang.
  16. *Gerris latiabdominis* Miyamoto, 1958 扁腹黾蝽  
Distribution: Fujian, Guizhou, Heilongjiang, Hubei, Inner Mongolia, Jilin, Shaanxi, Sichuan, Taiwan.
  17. *Gerris lobatus* Andersen & Chen, 1993 尾突黾蝽  
Distribution: Tibet, Yunnan.
  18. *Gerris lundbladi* Andersen & Chen, 1993 倫氏黾蝽  
Distribution: Sichuan.
  19. *Gerris nepalensis* Distant, 1910  
蠍黾蝽  
Distribution: Beijing, Guangdong, Hebei, Henan, Heilongjiang, Jiangsu, Shaanxi, Shanghai, Taiwan, Tianjin, Zhejiang.
  20. *Gerris odontogaster* (Zetterstedt, 1828) 齒腹黾蝽  
Distribution: Heilongjiang, Inner Mongolia, Jiangsu, Zhejiang, Sichuan, Xinjiang.
  21. *Gerris tigrinus* Brown, 1949  
毛胸黾蝽  
Distribution: Tibet, Yunnan.
  22. *Gerris yezoensis* Miyamoto, 1958  
東北黾蝽  
Distribution: NE China.
  23. *Gigantometra gigas* (China, 1925)  
海南巨大黾蝽  
Distribution: Hainan.
  24. *Limnogonus fossarum* (Fabricius, 1775) 暗條澤背黾蝽  
Distribution: Fujian, Guangdong, Guangxi, Hainan, Hong Kong, Macao, Taiwan, Yunnan.
  25. *Limnogonus hungerfordi* Andersen, 1975 臺灣澤背黾蝽  
Distribution: Taiwan.
  26. *Limnogonus nitidus* (Mayr, 1865)  
小澤背黾蝽  
Distribution: Guangdong, Hainan, Hong Kong, Tibet.
  27. *Limnporus esakii* (Miyamoto, 1958) 東亞褐黾蝽  
Distribution: Heilongjiang, Jiangsu, Tianjin.
  28. *Limnporus rufuscutellatus* (Latreille, 1807) 北方褐黾蝽  
Distribution: Heilongjiang, Inner Mongolia, Jilin, Xinjiang.
  29. *Neogerris parvulus* (Stal, 1859)  
小緣背黾蝽  
Distribution: Fujian, Guangdong, Guangxi, Hainan, Hong Kong, Yunnan.
  30. *Tenagogonus kuiterti* Hungerford & Matsuda, 1958 側突淡背黾蝽  
Distribution: Yunnan.
  31. *Tenagogonus matsudai* Miyamoto, 1965 松田氏淡背黾蝽  
Distribution: Yunnan.

#### Subfamily Halobatinae 海黾亞科

32. *Asclepios apicalis* (Esaki, 1924)  
臺灣黃斑黾  
Distribution: Taiwan.
33. *Asclepios shirazui coreanus* Esaki, 1930 朝鮮黃斑黾  
Distribution: Hong Kong.
34. *Halobates germanus* White, 1883

- 棘尾海龜  
Distribution: East & South China Sea.
35. *Halobates matsumurai* Esaki, 1924 松村氏海龜  
Distribution: East China Sea, Taiwan.
36. *Halobates micans* Eschscholtz, 1822 菱尾海龜  
Distribution: East China Sea.
37. *Halobates princeps* White, 1883 龜尾海龜  
Distribution: "East China Coast"
38. *Halobates sericeus* Eschscholtz, 1822 毛尾海龜  
Distribution: East China Sea.
39. *Metrocoris acutus* Chen & Nieser, 1993 尖齒澗龜  
Distribution: Yunnan.
40. *Metrocoris bilobatus* Den Boer, 1965 二葉澗龜  
Distribution: Yunnan.
41. *Metrocoris cantonensis* Chen & Nieser, 1993 廣東澗龜  
Distribution: Guangdong.
42. *Metrocoris constrictus* Chen & Nieser, 1993 綫縮澗龜  
Distribution: Jiangxi.
43. *Metrocoris dentifemoratus* Chen & Nieser, 1993 異足澗龜  
Distribution: Hainan.
44. *Metrocoris esakii* Chen & Nieser, 1993 臺灣澗龜  
Distribution: Taiwan.
45. *Metrocoris genitalis* Chen & Nieser, 1993 大尾澗龜  
Distribution: Yunnan.
46. *Metrocoris hirtus* Chen & Nieser, 1993 毛澗龜  
Distribution: Sichuan.
47. *Metrocoris lituralis* (Stal, 1854) 偽齒澗龜  
Distribution: Fujian, Hong Kong, Zhejiang.
48. *Metrocoris obscurus* Chen & Nieser, 1993 大黑澗龜  
Distribution: Yunnan.
49. *Metrocoris sichuanensis* Chen & Nieser, 1993 四川澗龜  
Distribution: Sichuan.
50. *Metrocoris stranguloides* Chen & Nieser, 1993 三齒澗龜  
Distribution: Hainan.
51. *Metrocoris tenuicornis* Esaki, 1926 細角澗龜  
Distribution: Guangdong, Hong Kong.
- Subfamily Ptilomerinae**  
毛足龜蟾亞科
52. *Potamometra brezowskii* Bianchi, 1896 布氏巨澗龜  
Distribution: Anhui, Guansu, Hebei, Hubei, Hunan, Shanxi, Shaanxi, Sichuan.
53. *Potamometra makrokosos* Drake & Hoberlandt, 1965 中南巨澗龜  
Distribution: Hubei.
54. *Potamometra montandoni* (Kirkaldy, 1899) 蒙氏巨澗龜  
Distribution: Anhui.
55. *Potamometra tibetensis* Esaki, 1927 西南巨澗龜  
Distribution: Sichuan.
56. *Ptilomera tigrina* Uhler, 1860 虎紋毛足澗龜  
Distribution: Guangdong, Hainan, Hong Kong, Yunnan.
57. *Rhyacobates chinensis* Hungerford & Matsuda, 1959 中華大澗龜  
Distribution: Inner Mongolia.
58. *Rhyacobates lundbladi* (Hungerford, 1957) 倫氏大澗龜  
Distribution: Zhejiang.
59. *Rhyacobates svenhedini* (Lundblad, 1934) 斯氏大澗龜  
Distribution: Sichuan.
60. *Rhyacobates takahashii* Esaki, 1923 高橋氏大澗龜  
Distribution: Taiwan.
- Subfamily Rhagadotarsinae**  
縊腹龜蟾亞科
61. *Rhagadotarsus kraepelini* Breddin, 1905 柯氏縊腹澗龜  
Distribution: Guangdong, Hong Kong, Taiwan.

## Family Hebridae 膜蟻科

### Subfamily Hebrinae 膜蟻亞科

1. *Hebrus bergrothi* Horváth, 1929  
白氏膜蟻  
Distribution: Taiwan.
2. *Hebrus hasegawai* Miyamoto, 1964 早瀨川氏膜蟻  
Distribution: Taiwan.
3. *Hebrus megacephalus* Miyamoto, 1965 大頭膜蟻  
Distribution: Taiwan.
4. *Hebrus nipponicus* Horváth, 1929  
日本膜蟻  
Distribution: Guangdong, Tianjin, Taiwan.
5. *Hebrus orientalis* Distant, 1904  
東方膜蟻  
Distribution: Guangdong.
6. *Timasius distanti* Miyamoto, 1965  
大麗膜蟻  
Distribution: Taiwan.
7. *Timasius lundbladi* Miyamoto, 1965 平腹麗膜蟻  
Distribution: Taiwan.
8. *Timasius minamikawai* Miyamoto, 1965 黑胸麗膜蟻  
Distribution: Taiwan.
9. *Timasius miyamotoi* Andersen, 1981 扁腹麗膜蟻  
Distribution: Hong Kong.

### Subfamily Hyrcaninae 灰膜蟻亞科

10. *Hyrcanus capitatus* Distant, 1910  
東南亞灰膜蟻  
Distribution: Guangdong.

## Family Hydrometridae 尺蟻科

1. *Hydrometra albolineata* (Scott, 1874) 白線尺蟻  
Distribution: Taiwan, Yunnan.
2. *Hydrometra annamana* Hungerford & Evans, 1934 淺帶尺蟻  
Distribution: Guangdong, Taiwan, Yunnan.
3. *Hydrometra gracilentia* Horváth, 1899 西北尺蟻  
Distribution: Xinjiang.
4. *Hydrometra greeni* Kirkaldy, 1898  
格氏尺蟻

Distribution: Jiangsu, Yunnan.

5. *Hydrometra lineata* Eschschlotz, 1822 毛腹尺蟻  
Distribution: Fujian, Guangdong, Guangxi, Hainan, Hebei, Hubei, Jiangsu, Sichuan, Zhejiang.
6. *Hydrometra procera* Horváth, 1905 雙齒尺蟻  
Distribution: Guangdong, Jiangsu, Sichuan, Taiwan, Yunnan.
7. *Hydrometra sjostedti* Lundblad, 1934 索氏尺蟻  
Distribution: Sichuan.

## Family Mesoveliidae 水蟻科

1. *Mesovelia japonica* Miyamoto, 1964 日本水蟻  
Distribution: Taiwan.
2. *Mesovelia vittigera* Horváth, 1895  
背條水蟻  
(= *M. orientalis* Kirkaldy, 1901)  
Distribution: Guangdong, Sichuan, Yunnan.

## Family Veliidae 寬肩蟻科

### Subfamily Haloveliinae

#### 礁寬肩蟻亞科

1. *Halovelia septentrionalis* Esaki, 1924 海洋礁寬肩蟻  
Distribution: Taiwan.
2. *Strongylovelia formosa* Esaki, 1924 臺灣壯寬肩蟻  
Distribution: Guangdong, Taiwan.

### Subfamily Microveliinae

#### 小寬肩蟻亞科

3. *Microvelia diluta* Distant, 1906  
淡色小寬肩蟻  
Distribution: Fujian, Hainan, Taiwan.
4. *Microvelia douglasi* Scott, 1874  
道氏小寬肩蟻  
Distribution: Fujian, Hong Kong, Hubei, Sichuan, Taiwan, Yunnan.
5. *Microvelia horvathi* Lundblad,

1933 荷氏小寬肩蟻

Distribution: Taiwan.

6. *Microvelia reticulata* (Burmeister, 1835) 網脈小寬肩蟻  
Distribution: Heilongjiang.
7. *Pseudovelia longitarsa* Andersen, 1983 長跗偽寬肩蟻  
Distribution: Fujian.
8. *Xiphovelia glauca* Esaki & Miyamoto, 1959 淡色劍寬肩蟻  
Distribution: Taiwan.

### Subfamily Rhagoveliinae

#### 裂寬肩蟻亞科

9. *Rhagovelia kawakamii* (Matsumura, 1913) 川上氏裂寬肩蟻  
Distribution: Taiwan.
10. *Rhagovelia sumatrensis* Lundblad, 1934 蘇門答臘裂寬肩蟻  
Distribution: Guangdong, Hong Kong.

### Subfamily Veliinae 寬肩蟻亞科

11. *Angilia orientalis* Andersen, 1981 東方龜紋寬肩蟻  
Distribution: Hong Kong.
12. *Angilovelia y-alba* (Paiva, 1918) 丫紋齒臀寬肩蟻  
Distribution: Hong Kong.
13. *Velia sinensis* Andersen, 1981 中華寬肩蟻  
Distribution: Sichuan.

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### References

- Andersen, N. M., and P. -P. Chen. 1993. A taxonomic review of the pondskater genus *Gerris* Fabricius in China, with two new species (Hemiptera, Gerridae). Ent. Scand. (in press).
- Chen, P. -P., and N. Nieser. 1993. A taxonomical revision of Oriental waterstrider genus *Metrocoris* Mayr (Hemiptera, Gerridae). Part. I-II. Steenstrupia, Zool. Mus. Univ. Copenhagen (in press).
- Chu, Y. I., and M. L. Hsiao. 1981. Checklist on the formosan veliid bug (Veliidae: Hemiptera). Phytopathologist & Entomologist, NTU. No.8 (1981): 31-35.
- Esaki, T. 1926. Verzeichnis der Hemiptera-Heteroptera der Insel Formosa. Ann. Mus. Nat. Hungarici XXIV: 136-141, 180-189.
- Hoffmann, W. E. 1933. A preliminary list of the aquatic and semiaquatic Hemiptera of China, Chosen (Korea), and Indo-China. Lingnan Sci. J. (Suppl). 12: 243-258.
- Hoffmann, W. E. 1941. Catalogue of aquatic Hemiptera of China, Indo-China, Formosa, and Korea. Lingnan Sci. J. 20: 1-78.
- Hungerford, H. B. 1957. A new Gerridae from China (Gerridae, Hemiptera). J. Kansas Ent. Soc., Manhattan 30: 30-36.
- Lundblad, O. 1933. Zur Kenntnis der aquatilen und semi-aquatilen Hemipteren von Sumatra, Java und Bali. Arch. Hydrobiol., Stuttgart Suppl. 12,

1933: 1-195.

**Miyamoto, S.** 1960. Aquatic and semi-aquatic Heteroptera from Shanxi Province, North China (Hemiptera). *Mushi Fukuoka* 33: 73-84.

**Miyamoto, S.** 1961. Water striders of the subgenus *Gerris* in Formosa. *Ent. Lab., Univ. Osaka Pref., No.6*: 5-9.

**Miyamoto, S.** 1965. Heteropteran insects of Formosa collected by Dr. Shirozu and others, 1961. *Spec. Bull. Lep. Soc. Jap.* 30. XII. pp. 227-238.

**Wu, C. F.** 1935. *Catalogus Insectorum Sinensium, II*. pp. 537-591.

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