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A Namelist of Leptopodomorpha from China (Hemiptera) 【Research report】

中國細腳椿象群昆蟲名錄 (半翅目) 【研究報告】

Ping-Ping Chen, Per Lindskog
陳萍萍、P. Lindskog

*通訊作者E-mail :

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Abstract

A namelist and distributional records for the Leptopodomorpha (Hemiptera) of China is provided. The list includes 41 species in 10 genera of Saldidae, and 3 species in 3 genera of Leptopodidae.

摘要

本文記錄中國產之半翅目細腳椿象群，其中包括水際椿象科 (亦稱跳椿科) 十屬四十一種及細腳椿象科三屬三種並附其產地。

Key words: Namelist, Leptopodomorpha, Hemiptera, China.

關鍵詞: 名錄、細腳椿象群、半翅目、中國。

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A Namelist of Leptopodomorpha from China (Hemiptera)

Ping-Ping Chen Institute of Plant & Environmental Protection, Beijing Academy of Agriculture & Forestry Sciences, P.O. Box 2449-19, Beijing 100081, China

Per Lindskog Department of Entomology, Swedish Museum of Natural History, S-104 05 Stockholm, Sweden

ABSTRACT

A namelist and distributional records for the Leptopodomorpha (Hemiptera) of China is provided. The list includes 41 species in 10 genera of Saldidae, and 3 species in 3 genera of Leptopodidae.

Key words: Namelist, Leptopodomorpha, Hemiptera, China.

中國細腳椿象群昆蟲名錄(半翅目)

陳萍萍 北京市農林科學院植物保護環境保護研究所 2449 信箱 19 分箱, 北京 100081

P. Lindskog 瑞典皇家自然博物館昆蟲部 S-104 05 斯德哥爾摩, 瑞典

摘 要

本文記錄中國產之半翅目細腳椿象群, 其中包括水際椿象科(亦稱跳蟻科)十屬四十一種及細腳椿象科三屬三種並附其產地。

關鍵詞: 名錄、細腳椿象群、半翅目、中國。

Introduction

The Saldidae or shore bugs, the predatory semiaquatic group, recently known in about 280 species, are recorded from all continents (excepting Antarctic) and many remote islands (Schuh *et al.*, 1987). The knowledge of the saldid fauna of vast China is a key area in Holarctic and global biogeography. Kiritschenko (1912) described 3 new species based on the materials collected from SW China. In 1933, 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 recorded 8 species in 2 genera. Wu (1935) reported 6 species in 2 genera in his "Catalogus insectorum Sinensium" on literature basis. Drake and Maa (1954) reported 6 genera and 14 species including one new species from Fujian (*Saldula fukiensis*). Apart from the work mentioned above, the Chinese Saldidae fauna were poorly known, even the very important "Catalog and bibliography of Leptodomorpha (Heteroptera)" by Schuh *et al.* (1987) only included 2 species in 2 genera of Leptopodidae and 10 species in 6 genera of Saldidae. In the same year, Chen and Zheng reported 19 species of Saldidae as new to China and 1 new species from SW area. A revisional result of Chinese Saldidae made by first author has been published (Chen and Zheng, 1987) which brought Chinese Saldidae into a taxa composed by more than 30 species in 9 genera. Along with the very primitive and interesting new saldid creature have been found in Mt. Er Mei and Jin Yun Hill, Sichuan (Lindskog and Chen, on *Metasalda*, in press), the Chinese saldid fauna has shown its special significance to reveal the studies in Holarctic biogeography and the evolution of the cold-adapted biota. But so far no comprehensive list has been published.

Among the approximately 150 species of Saldidae known from the Holarctic region, a major part is composed by cold-adapted and cold-adapted species groups confined to boreoarctic and moderate to high altitude montane regions, e.g. the Tibetan-Qinghai high altitude species groups of *Chiloxanthus* and *Calacanthia*, both with congenetic relatives on the circumpolar tundra.

The present nomenclature of the semiaquatic bugs (infraorder Leptodomorpha) of China is based upon our own collecting and examination of the collections deposited in the Department of Biology, Nankai University, the Institute of Zoology, Academia Sinica, Natural History Museum, Tianjin, and Swedish Museum of Natural History. For each species, the distributional data are given as provincial names in alphabetical order. Finally, according to the list, a total of 41 species (in 10 genera) of Saldidae, 3 species (in 3 genera) of Leptopodidae have so far been recorded from China. This means that 43 species which about 15% of the world fauna of Leptodomorpha are known from China. Further field work will probably increase the number of the species, especially in the family Saldidae from SW China.

The List of Leptodomorpha from China

Family Saldidae 水際椿象科

Subfamily Chiloxanthinae 毛邊水際椿象亞科

1. *Chiloxanthus corporaali* Lindberg, 1935 黑毛邊水際椿象
Distribution: Tibet (西藏).
2. *Chiloxanthus kozlovi* Kiritschenko, 1912 褐毛邊水際椿象
Distribution: Qinghai (青海), Tibet (西藏), Xinjiang (新疆).
3. *Chiloxanthus lama* Kiritschenko, 1912 西藏毛邊水際椿象
Distribution: Tibet (西藏).

4. *Chiloxanthus pilosus* (Fallen, 1807)
多毛毛邊水際椿象
Distribution: Inner Mongolia(內蒙古).
5. *Pentacora malayensis* (Dover, 1929)
馬來五室水際椿象
Distribution: Taiwan(台灣).
- Subfamily Saldinae 跳椿象亞科**
6. *Salda kiritshenkoi* Cobben, 1985
基氏黑水際椿象
Distribution: Heilongjiang(黑龍江).
7. *Salda littoralis* (Linnaeus, 1758)
澤黑水際椿象
Distribution: Sichuan(四川).
8. *Salda morio* Zetterstedt, 1838
亮黑水際椿象
Distribution: Heilongjiang(黑龍江).
9. *Salda sahlbergi* Reuter, 1875
暗條黑水際椿象
Distribution: Heilongjiang(黑龍江).
10. *Teloleuca kusnezovi* Lindberg, 1934
卵圓細角水際椿象
Distribution: Heilongjiang(黑龍江).
11. *Teloleuca pellicea* (Fabricius, 1779)
西北細角水際椿象
Distribution: Gansu(甘肅).
12. *Calacanthia angulosa* (Kiritschenko, 1912)
寬角水際椿象
Distribution: Qinghai(青海), Sichuan(四川), Tibet(西藏), Xinjiang(新疆).
13. *Calacanthia grandis* Cobben, 1985
大寬角水際椿象
Distribution: Sichuan(四川).
14. *Calacanthia sichuanicus* Chen et Zheng, 1987
四川完盾水際椿象
Distribution: Sichuan(四川).
15. *Calacanthia tibetana* Drake, 1954
西藏寬角水際椿象
Distribution: Tibet(西藏).
16. *Halosalda lateralis* (Fallen, 1870)
側邊鹽水際椿象
Distribution: Hebei(河北), Xinjiang(新疆).
17. *Macrosaldula jakowleffi* (Reuter, 1891), rec. nov.
毛肩大水際椿象
Distribution: Xinjiang(新疆).
18. *Macrosaldula miyamotoi* Cobben, 1985, rec. nov.
宮本氏大水際椿象
Distribution: Jilin(吉林).
19. *Macrosaldula oblonga* (Stål, 1858), rec. nov.
長圓大水際椿象
Distribution: Ningxia(寧夏), Shanxi(山西).
20. *Macrosaldula roborowskii* (Jakovlev, 1889)
羅氏大水際椿象
Distribution: Xinjiang(新疆).
21. *Micracanthia bergrothi* (Jakovlev, 1893)
北氏小水際椿象
Distribution: Inner Mongolia(內蒙古).
22. *Micracanthia ornatula* Reuter, 1891
雅小水際椿象
Distribution: Fujian(福建), Hainan(海南), Taiwan(台灣), Yunnan(雲南).
23. *Micracanthia* sp.(未定種)
Distribution: Qinghai(青海), Sichuan(四川).
24. *Saldoida armata* Horvath, 1911
蟻狀突胸水際椿象
Distribution: Taiwan(台灣), Tianjin(天津).
25. *Saldula arenicola* (Scholtz, 1847)
沙水際椿象
Distribution: Shanxi(山西), Xinjiang(新疆).
26. *Saldula arsenjevi* Vinokurov, 1981
分明水際椿象
Distribution: Hebei(河北), Heilongjiang(黑龍江), Hubei(湖北), Hunan(湖南), Qinghai(青海), Sichuan(四川), Yunnan(雲南).
27. *Saldula burmanica* Lindskog, 1975
緬甸水際椿象
Distribution: Shaanxi(陝西), Sichuan(四川), Tibet(西藏), Yunnan(雲南).
28. *Saldula fucicola* (Sahlberg, 1871)
地衣水際椿象
Distribution: Xinjiang(新疆).
29. *Saldula fukiensis* Drake et Maa, 1954
福建水際椿象
Distribution: Fujian(福建), Sichuan(四川), Guizhou(貴州).
30. *Saldula hasegawai* Cobben, 1985
黃邊水際椿象
Distribution: Shandong(山東).
31. *Saldula melanoscela* (Fieber, 1859)
灰暗水際椿象

- Distribution: Sichuan(四川), Tianjin(天津), Tibet(西藏).
32. *Saldula niveolimbatata* (Reuter, 1990)
鮮明水際椿象
Distribution: Yunnan(雲南).
33. *Saldula nobilis* (Horvath, 1883)
顯赫水際椿象
Distribution: Hebei(河北), Heilongjiang(黑龍江), Inner Mongolia(內蒙古), Jilin(吉林), Shaanxi(陝西), Sichuan(四川), Tibet(西藏).
34. *Saldula opacula* (Zetterstedt, 1838)
影斑水際椿象
Distribution: Heilongjiang(黑龍江), Sichuan(四川), Xinjiang(新疆), Yunnan(雲南).
35. *Saldula orthochila* (Fieber, 1859)
直邊水際椿象
Distribution: Sichuan(四川).
36. *Saldula pallipes* (Fabricius, 1794)
廣水際椿象
Distribution: Hebei(河北), Heilongjiang(黑龍江), Gansu(甘肅), Inner Mongolia(內蒙古), Jilin(吉林), Liaoning(遼寧), Shandong(山東), Sichuan(四川), Tibet(西藏), Yunnan(雲南).
37. *Saldula palustris* (Douglas, 1874)
泛水際椿象
Distribution: Gansu(甘肅), Hebei(河北), Henan(河南), Heilongjiang(黑龍江), Inner Mongolia(內蒙古), Ningxia(寧夏), Qinghai(青海), Xinjiang(新疆), Shanxi(山西), Sichuan(四川), Tibet(西藏).
38. *Saldula pilosella* (Thomson, 1871)
毛頂水際椿象
Distribution: Hebei(河北), Heilongjiang(黑龍江), Inner Mongolia(內蒙古), Jiangsu(江蘇), Jilin(吉林), Liaoning(遼寧), Shandong(山東), Sichuan(四川), Yunnan(雲南), Tibet(西藏), Xinjiang(新疆).
39. *Saldula saltatoria* (Linnaeus, 1758)
黃頰水際椿象
Distribution: Xinjiang(新疆).
40. *Saldula taiwanensis* Cobben, 1985
台灣水際椿象
Distribution: Taiwan(台灣).

41. *Saldula xanthochila* (Fieber, 1859)
黃水際椿象
Distribution: Heilongjiang(黑龍江), Jilin(吉林), Liaoning(遼寧), Shanxi(山西), Tianjin(天津).

Family Leptopodidae 細腳椿象科
Subfamily Leptopodinae 細腳椿象亞科

1. *Leptopus riparius* Hsiao, 1964
淺褐細腳椿象
Distribution: Sichuan(四川).
2. *Patapius thaiensis* Cobben, 1968
泰國刺眼細腳椿象
Distribution: Yunnan(雲南).
3. *Valleriola buenoi* (Usinger), 1942
布氏大細腳椿象
Distribution: Hainan(海南).

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