

Checklist and Nomenclatural Notes on the Chinese Pentatomidae (Heteroptera) I. Asopinae

David A. Rider¹, ZHENG Le-yi²

1. *Department of Entomology, Box 5346, University Station North Dakota State University, Fargo, North Dakota 58105, US A;*
2. *Department of Biology, Nankai University, Tianjin 300071, P. R. China)*

Abstract: A checklist of all known Chinese asopine pentatomid species is presented with synonymical, distributional, and nomenclatural notes.

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Introduction: The systematic work on the Oriental Pentatomidae can be divided into three periods of time. Prior to the 1930's, most of the work consisted of notable European heteropterists working over the various collections made during expeditions to China and surrounding countries. These resulted in many lists of species, and many new species descriptions, but very little in the way of real revisionary work. During the 1930's, several workers living in China began to systematically work on the Chinese fauna (Hoffmann, Yang). This work was supported by two catalogs of the Chinese fauna that were, ironically, published the same year (Hoffmann 1935, Tang, 1935), along with several supplements (Hoffmann 1948, 1950, 1954). Especially important are the works of Yang who through the 1930's published not only on the Pentatomidae, but he also produced several monographic studies on related families (Plataspidae, Scutelleridae, Tessaratomidae, Urostylidae) (see literature cited section for list of his papers). The work by Hoffmann was also very interesting because he concentrated on the bionomic aspects of many of the species, including much information on their life histories.

Systematic research on pentatomids slowed somewhat during the 1940's, and did not really increase again until the late 1970's when Hsiao & Cheng (1977) published the Pentatomidae portion of the Handbook on Chinese Heteroptera. The last 25 years has seen a proliferation of heteropteran workers in China. They have published the occasional generic revision, but there have been a multitude of faunal surveys with many new species descriptions. The result being that the two 1935 catalogs, although still quite useful, are now very out of date. Also, a number of nomenclatural problems have been discovered which have resulted in the wrong names being used for some species. The following checklist is an attempt to bring the nomenclature up to date for the subfamily Asopinae, and to summarize the known distributions of the included species. Similar checklists will be presented for the remaining pentatomid subfamilies (Pentatominae, Phyllocephalinae, Podopinae).

Checklist of Chinese Asopinae

Amyotea malabarica (Fabricius, 1775)

Synonyms: *Cimex mactans* Fabricius, 1781; *Cimex oculatus* Fabricius, 1798; *Lygaeus argus* Fabricius, 1803; *Amyotea dystercoides* Ellenrieder, 1862; *Amyotea nigripes* Ellenrieder, 1862; *Asopus malabaricus* var. *rubrocinctus* Breddin, 1899; *Asopus rufus* Azim & Shafee, 1982.

Distribution: Fujian, Guizhou, Hainan, Jiangxi, Taiwan, Xizang, Yunnan. Eastern India through southern China, southeast Asia to Taiwan, the Philippines, and Indonesia.

Note: *Amyotea nigripes* was synonymized under *malabarica* by Stål (1870); this was confirmed by Thomas (1994). Many oriental workers still refer to form *malabarica* and form *typica* (which should actually be referred to as form *malabarica*).

Andrallus spinidens (Fabricius, 1787)

Synonyms: *Asopus geometricus* Burmeister, 1835; *Pentatoma aliena* Westwood, 1837; *Acanthidium cinctum* Montrouzier, 1858; *Audinetia aculeata* Ellenrieder, 1862; *Apateticus ludovicianus* Stoner, 1917.

Distribution: Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangxi, Taiwan, Xizang. Cosmopolitan.

Arma chinensis Fallou, 1881

Synonyms: *Arma discors* Jakovlev, 1902a; *Auriga peipingensis* Yang, 1933.

Distribution: Beijing, Gansu, Guizhou, Hebei, Heilongjiang, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Liaoning, Nei Monggol, Shaanxi, Shandong, Shanxi, Sichuan, Xinjiang, Yunnan, Zhejiang. Also recorded from Mongolia and Korea.

Arma custos (Fabricius, 1794)

Synonyms: *Arma neocustos* Ahmad & Onder, 1990; *Arma neoinsperata* Ahmad & Onder, 1990.

Distribution: Heilongjiang, Xinjiang. Widespread Palearctic species.

Note: *Arma custos* has been recorded from Xinjiang Province, and there are two specimens in the Zoological Institute, Russian Academy of Sciences, St. Petersburg, that were collected from Heilongjiang Province (Kerzhner, personal communication); all other records from China should be referred to the closely related *Arma chinensis*.

Arma ferruginea (Hsiao & Cheng, 1977)

Distribution: Guizhou, Hubei, Sichuan, Xizang, Yunnan.

Arma koreana Josifov & Kerzhner, 1978

Distribution: Guizhou, Liaoning, Korea.

Arma maculata Zheng, 1980

Distribution: Sichuan, Yunnan.

Arma tubercula (Yang, 1935)

Distribution: Hubei, Sichuan, Yunnan.

Blachia ducalis Walker, 1867

Synonyms: *Cazira coccinelloides* Vollenhoven, 1868; *Sesha manifesta* Distant, 1887.

Distribution: Yunnan. Also recorded from India, Myanmar, and Thailand.

Cantheconidea humeralis (Distant, 1908)

Distribution: Guangxi, Yunnan. Also recorded from India and Myanmar.

Cazira breddini Schouteden, 1907

Distribution: Sichuan, Xizang, Yunnan. Also known from Bhutan and India.

Cazira concinna Hsiao & Cheng, 1977

Distribution: Hainan, Zhejiang.

Cazira emeia Zhang & Lin, 1982

Distribution: Fujian, Hunan, Sichuan, Yunnan.

Cazira flava Yang, 1935

Distribution: Guizhou, Yunnan.

Cazira frivaldszkyi Horváth, 1889

Synonym: *Cazira bhoutanica* Schouteden, 1907.

Distribution: Anhui, Fujian, Guizhou, Hunan, Jiangsu, Jiangxi, Zhejiang. Also recorded from Bhutan and India.

Note: Horváth (1909) first placed *C. bhoutanica* as a junior synonym of *C. frivaldszkyi*. This was not followed by most workers, but this synonymy has now been confirmed by Zhang *et al.* (1992) and Thomas (1994). All previous records of *C. bhoutanica* should be referred to *C. frivaldszkyi*.

Cazira horvathi Breddin, 1903

Synonym: *Aciczira gibbosa* Hsiao & Cheng, 1977.

Distribution: Hubei, Hunan. Originally described from Vietnam.

Note: Hoffmann (1948) indicated that *C. horvathi* probably did not occur in China. This probably led to Hsiao & Cheng's (1977) description of *A. gibbosa*. Zheng & Liu (1987) placed *A. gibbosa* as a junior synonym of *C. horvathi*.

Cazira inerma Yang, 1935

Distribution: Fujian, Guizhou, Hunan, Shaanxi, Sichuan, Zhejiang.

Cazira membrania Zhang & Lin, 1982

Distribution: Guizhou, Hubei, Hunan, Zhejiang.

Cazira montandoni Breddin, 1903

Distribution: Yunnan. Originally described from Vietnam.

Cazira sichuana Zhang & Lin, 1986

Distribution: Sichuan.

Cazira tibetensis Schouteden, 1907

Distribution: Sichuan, Yunnan.

Cazira vegeta Kirkaldy, 1909

Distribution: Yunnan. Also recorded from Japan, India, and Thailand.

Note: Kirkaldy (1909) determined that Herrich-Schäffer (1839) has misidentified *Asopus ulceratus* Burmeister (1835). Both Burmeister (1835) and Herrich-Schäffer (1839) had attributed this name to Klug. Kirkaldy proposed *C. vegeta* as a replacement name for *A. ulceratus*; Herrich-Schäffer (1839). *Cazira ulceratus* (Burmeister) is known only from Indonesia (Java, Sumatra); all references to *C. ulceratus* from China, India, and southeast Asia should be referred to *C. vegeta*.

Cazira verrucosa (Westwood, 1835)

Synonym: *Asopus verrucifer* Burmeister, 1835.

Distribution: Fujian, Guangxi, Hainan, Hunan, Qinghai, Taiwan, Xizang, Yunnan. India through southeast Asia to Japan and the Philippines.

Cazira yunnanica (Zhang & Lin, 1982)

Distribution: Yunnan.

Note: This species was originally described in the genus *Breddiniella*. Thomas (1994) synonymized *Breddiniella* under *Cazira*, and transferred this species to the same genus.

Cecyrina platyrhinoides Walker, 1867

Distribution: Guangxi, Hunan, Sichuan, Xizang, Yunnan. Originally described from India, and also recorded from Bhutan.

Dinorhynchus dybowskyi Jakovlev, 1876

Synonym: *Neoglypsus viridicatus* Distant, 1881.

Distribution: Hebei, Heilongjiang, Jilin, Nei Monggol, Shandong. Also recorded from Japan, Korea, and eastern Russia.

Dinorhynchus opulentus (Distant, 1890)

Distribution: Hubei.

Eocanthecona binotata (Distant, 1879)

Distribution: Sichuan, Yunnan. Originally described from northeastern India.

Note: Oriental records of this species are all under the generic name *Cantheconidea*, but Thomas (1994) transferred this species to *Eocanthecona*.

Eocanthecona concinna (Walker, 1867)

Distribution: Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Jiangxi, Sichuan, Taiwan, Xizang, Yunnan. Also recorded from Macao.

Note: Thomas (1994) transferred this species from the genus *Cantheconidea* to *Eocanthecona*.

Eocanthecona formosa (Horváth, 1911)

Synonyms: *Cantheconidea furcata* [sic] var. *formosana* Shiraki, 1913; *Cantheconidea formosana* Sonan, 1927 (preoccupied).

Distribution: Taiwan.

Note: Once again, Thomas (1994) transferred this species to *Eocanthecona*.

Eocanthecona furcellata (Wolff, 1801)

Synonym: *Asopus armiger* Herrich-Schäffer, 1844.

Distribution: Guizhou, Guangdong, Hainan, Jiangxi, Sichuan, Taiwan, Xizang. Widespread species occurring from India and Sri Lanka through China and southeast Asia to Japan, the Philippines, and Indonesia.

Note: Thomas (1994) confirmed this species as a member of the genus *Eocanthecona*.

Eocanthecona parva (Distant, 1902)

Distribution: Xizang, Yunnan. Originally described from India.

Note: All records of this species from China are under the generic name *Cantheconidea*; Thomas (1994) transferred this species to *Eocanthecona*.

Eocanthecona thomsoni (Distant, 1911)

Distribution: Fujian, Guizhou, Hebei, Heilongjiang, Hubei, Hunan, Jiangxi, Sichuan, Zhejiang.

Note: Once again, all known records of this species come under the generic name *Cantheconidea*, but Thomas (1994) has transferred this species to *Eocanthecona*.

Jalla dumosa (Linnaeus, 1758)

Synonyms: *Jalla nigriventris* Fieber, 1861; *Jalla subdilatata* var. *vidua* Horváth, 1917.

Distribution: Heilongjiang, Jilin, Xinjiang. Widespread Palearctic species.

Jalla subcalcarata Jakovlev, 1885

Distribution: Hebei, Heilongjiang, Jilin, Nei Monggol, Sichuan, Xinjiang, Xizang. Iran, Kazakhstan, Mongolia, Russia, Turkey.

Martinina inexpectata (Schouteden, 1907)

Distribution: Sichuan, Yunnan.

Picromerus bidens (Linnaeus, 1758)

Synonyms: *Cimex bilobus* Schrank, 1781; *Picromerus fuscoannulatus* Stål, 1858; *Picromerus longicollis* Jakovlev, 1902b.

Distribution: Anhui, Hebei, Heilongjiang, Jilin, Nei Monggol. Widespread Palearctic species. Also, recently introduced into northeastern North America.

Picromerus fasciiceps Zheng & Liu, 1987

Distribution: Yunnan.

Picromerus griseus (Dallas, 1851)

Synonyms: *Picromerus obtusus* Walker, 1867; *Picromerus nigriivitta* Walker, 1867; *Picromerus sundanus* Breddin, 1902.

Distribution: Guangdong, Guangxi, Sichuan, Xizang, Yunnan. Also recorded from Pakistan, India, Myanmar, and Indonesia (Java).

Note: Although Schouteden (1907) placed *P. obtusus* as a junior synonym of this species, with confirmation from Thomas (1994), there are still a number of references (especially from the Indo-Pakistan region) to this species as *P. obtusus*; these should be referred to *P. griseus*.

Picromerus lewisi Scott, 1874

Synonyms: *Picromerus angusticeps* Jakovlev, 1880; *Picromerus vicinus* Signoret, 1880; *Picromerus similis* Distant, 1883.

Distribution: Anhui, Fujian, Guangxi, Guizhou, Hainan, Hebei, Heilongjiang, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Liaoning, Shaanxi, Shandong, Shaanxi, Sichuan, Xizang, Yunnan, Zhejiang. Also known from eastern Russia, Korea, and Japan.

Picromerus viridipunctatus Yang, 1935

Distribution: Anhui, Guangdong, Guangxi, Guizhou, Hunan, Jiangxi, Sichuan, Zhejiang.

Pinthaeus humeralis Horváth, 1911

Distribution: Fujian, Guizhou, Hunan, Jiangxi, Jilin, Liaoning, Shanxi, Sichuan, Yunnan, Xizang. Also recorded from Japan.

Pinthaeus sanguinipes (Fabricius, 1781)

Synonym: *Asopus genei* Costa, 1841.

Distribution: Heilongjiang, Jilin. Widespread Palearctic species.

Platynopus melanoleucus (Westwood, 1837)

Synonyms: *Platynopus varius* Amyot & Serville, 1843; *Platynopus polygraphus* Walker, 1867.

Distribution: Taiwan. Also known from Malaysia, Indonesia, and the Philippines.

Rhacognathus corniger Hsiao & Cheng, 1977

Synonym: *Rhacognathus lamellifer* Josifov & Kerzhner, 1978.

Distribution: Hebei, Heilongjiang. Also recorded from eastern Russia and Korea.

Rhacognathus punctatus (Linnaeus, 1758)

Synonyms: *Cimex variegatus* Goeze, 1778; *Cimex annularis* Geoffroy, 1785; *Cimex avenicola* Gistel, 1857; *Rhacognathus distinctus* Schouteden, 1907.

Distribution: Hebei, Nei Monggol. Widespread Palearctic species.

Troilus luridus (Fabricius, 1775)

Synonyms: *Cimex serrulatus* Müller, 1776; *Cimex dentatus* Schrank, 1781; *Cimex beryllinus* Gmelin, 1790; *Cimex elector* Fabricius, 1794; *Cimex serratus* Hahn, 1826; *Pentatoma sublurida* Westwood, 1837; *Troilus luridus* var. *angusta* Reuter, 1881.

Distribution: Gansu, Guizhou, Hebei, Nei Monggol, Sichuan, Xizang, Yunnan. Widespread Palearctic species that has also been reported from India, Myanmar, and Indonesia (Java).

Troilus testaceus Zheng & Liu, 1987

Distribution: Xizang, Yunnan.

Zicrona caerulea (Linnaeus, 1758)

Synonyms: *Cimex chalybeus* Gmelin, 1790; *Pentatoma concinna* Westwood, 1837; *Pentatoma violacea* Westwood, 1837; *Zicrona illustris* Amyot & Serville, 1843; *Zicrona cuprea* Dallas, 1851.

Distribution: Beijing, Fujian, Gansu, Guangdong, Guangxi, Hainan, Hebei, Heilongjiang, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Liaoning, Nei Monggol, Shaanxi, Shandong, Shanxi, Sichuan, Taiwan, Xinjiang, Yunnan, Zhejiang. Cosmopolitan.

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中国蝽科名录与有关学名变动 I. 益蝽亚科

(半翅目: 异翅亚目)

David A. Rider¹, 郑乐怡²

1. 美国北达科他州立大学昆虫学系, Fargo, N. Dakota 58105, U. S. A. ;

2. 南开大学生物系, 天津 300071)

本文为中国蝽科(Pentatomidae)审核名录的第一部分, 包括全部已知中国分布的益蝽亚科(Asopinae)种类的学名、异名、分布(中国分布包括省级记录)、以及有关学名变动的简要说明。

关键词: 半翅目; 蝽科; 益蝽亚科; 名录; 中国