

An annotated checklist of the Polish Pentatomoidea (Hemiptera: Heteroptera)

JERZY A. LIS

Center for Biodiversity Studies, Department of Biosystematics, Opole University
45-052 Opole, Oleska 22
e-mail: cydnus@uni.opole.pl

Abstract. An annotated checklist of 78 species of the Polish Pentatomoidea (Hemiptera: Heteroptera) is presented.

Key words: Hemiptera, Heteroptera, Pentatomoidea, Acanthosomatidae, Cydnidae, Pentatomidae, Plataspidae, Scutelleridae, Thyreocoridae, checklist, Poland.

Introduction

The Polish fauna of the superfamily Pentatomoidea includes at present 78 species representing six families, i.e., Acanthosomatidae, Cydnidae, Pentatomidae, Plataspidae, Scutelleridae, and Thyreocoridae. Distribution of these species in Poland was summarized in three monographs (Lis 1989, 1990; Lis et al. 2012).

Classification of the presented checklist follows the "Catalogue of the Heteroptera of the Palaearctic Region": Davidová-Vilímová 2006 (*Plataspidae*); Gölner-Scheiding 2006a (*Acanthosomatidae*), 2006b (*Scutelleridae*); Lis 2006a (*Cydnidae*), 2006b (*Thyreocoridae*), Rider, 2006 (*Pentatomidae*). Synonyms listed in the checklist are only those provided in the literature relating to the Polish fauna.

Checklist of species

Pentatomoidea Leach, 1815

Family: **Acanthosomatidae** Signoret, 1864

Subfamily: **Acanthosomatinae** Signoret, 1864

Acanthosoma Curtis, 1824

1. *Acanthosoma haemorrhoidale* (Linnaeus, 1758)

Cyphostethus Fieber, 1860

2. *Cyphostethus tristriatus* (Fabricius, 1787)

Elasmostethus Fieber, 1860

3. *Elasmostethus interstinctus* (Linnaeus, 1758)
Cimex dentatus De Geer, 1773
Cimex haemagaster Schrank, 1781
4. *Elasmostethus minor* Horváth, 1899

Elasmucha Stål, 1864

Clinocoris Hahn, 1834

5. *Elasmucha ferrugata* (Fabricius, 1787)
Cimex bispinus Panzer, 1795
6. *Elasmucha fieberi* (Jakovlev, 1865)
7. *Elasmucha grisea* (Linnaeus, 1758)
Cimex betulae De Geer, 1773
Cimex agathinus Fabricius, 1794
Clinocoris antennatus Reuter, 1885

Family: **Cydnidae** Billberg, 1820

Subfamily: **Cydninae** Billberg, 1820

Tribe: **Cydnini** Billberg, 1820

Cydnus Fabricius, 1803

Brachypelta Amyot et Serville, 1843

8. *Cydnus aterrimus* (Forster, 1771)
Cimex tristis Fabricius, 1775

Tribe: **Geotomini** s. lato

Byrsinus Fieber, 1860

9. *Byrsinus flavicornis* (Fabricius, 1794)

Microporus Uhler, 1872

10. *Microporus nigrita* (Fabricius, 1794)

Subfamily: **Sehirinae** Amyot et Serville, 1843

Adomerus Mulsant et Rey, 1866.

11. *Adomerus biguttatus* (Linnaeus, 1758)
Sehirus biguttatus var. *concolor* Nickerl, 1892

Canthophorus Mulsant et Rey, 1866

12. *Canthophorus dubius* (Scopoli, 1763)
Cimex albomarginatus Schrank, 1776
Cimex albomarginellus Fabricius, 1794
13. *Canthophorus impressus* (Horváth, 1880)

Legnotus Schiødte, 1848*Gnathoconus* Fieber, 1860

14. *Legnotus limbosus* (Geoffroy, 1785)
Cimex albomarginatus Goeze, 1778
Pentatoma (Cydnus) notatum Schilling, 1844
15. *Legnotus picipes* (Fallén, 1807)
Gnathoconus costalis Fieber, 1861

Ochetostethus Fieber, 1860

16. *Ochetostethus opacus* (Scholtz, 1847)

Sehirus Amyot et Serville, 1843

17. *Sehirus luctuosus* Mulsant et Rey, 1866
18. *Sehirus morio* (Linnaeus, 1761)
Cydnus affinis Herrich-Schaeffer, 1830

Tritomegas Amyot et Serville, 1843

19. *Tritomegas bicolor* (Linnaeus, 1758)
20. *Tritomegas sexmaculatus* (Rambur, 1839)

Family: **Pentatomidae** Leach, 1815Subfamily: **Asopinae** Amyot et Serville, 1843*Amyoteinae* Schouteden, 1907**Arma** Hahn, 1832

21. *Arma custos* (Fabricius, 1794)

Jalla Hahn, 1832

22. *Jalla dumosa* (Linnaeus, 1758)

Picromerus Amyot et Serville, 1843

23. *Picromerus bidens* (Linnaeus, 1758)

Pinthaeus Stål, 1868

24. *Pinthaeus sanguinipes* (Fabricius, 1781)

Rhacognathus Fieber, 1860

25. *Rhacognathus punctatus* (Linnaeus, 1758)

Troilus Stål, 1868

26. *Troilus luridus* (Fabricius, 1775)

Zicrona Amyot et Serville, 1843

27. *Zicrona caerulea* (Linnaeus, 1758)

Subfamily: **Pentatominae** Leach, 1815Tribe: **Aeliini** Douglas et Scott, 1865**Aelia** Fabricius, 1803

28. *Aelia acuminata* (Linnaeus, 1758)
Aelia pallida Küster, 1852
29. *Aelia klugii* Hahn, 1833
30. *Aelia rostrata* Boheman, 1852
Aelia rostrata var. *glebana* FERRARI, 1874

Neottiglossa W. Kirby, 1837*Platysolen* Fieber, 1860

31. *Neottiglossa leporina* (Herrich-Schaeffer, 1830)
32. *Neottiglossa pusilla* (Gmelin, 1789)
Cydnus inflexus Wolff, 1811

Tribe: **Carpocorini** Mulsant et Rey, 1866**Anthemina** Mulsant et Rey, 1866

33. *Anthemina lunulata* (Goeze, 1778)
Cimex lynx Fabricius, 1794

Carpocoris Kolenati, 1846

34. *Carpocoris fuscispinus* (Boheman, 1851)
35. *Carpocoris melanocerus* (Mulsant et Rey, 1852)
Note: The species is known only by a single specimen collected almost 30 years ago in the Polish Carpathians (Lis 1986). Its occurrence in Poland needs confirmation.
36. *Carpocoris purpureipennis* (DeGeer, 1773)
Cimex nigricornis Fabricius, 1775

Chlorochroa Stål, 1872*Pitedia* Reuter, 1888

37. *Chlorochroa juniperina* (Linnaeus, 1758)
38. *Chlorochroa pinicola* (Mulsant et Rey, 1852)
Pentatoma juniperinus var. *longirostris* Flor, 1856

Dolycoris Mulsant et Rey, 1866

39. *Dolycoris baccarum* (Linnaeus, 1758)
Cimex verbasci De Geer, 1773

Holcostethus Fieber, 1860

40. *Holcostethus sphaelatus* (Fabricius, 1794)

Palomena Mulsant et Rey, 1866

41. *Palomena prasina* (Linnaeus, 1761)
Cimex dissimilis Fabricius, 1781
42. *Palomena viridissima* (Poda, 1761)

Peribalus Mulsant et Rey, 1866

43. *Peribalus strictus* (Fabricius, 1803)
Cimex vernalis WOLFF, 1804
Note: The generic status of this species was clarified recently by Belousova (2007) and Ribes et al. (2008), and was accepted also in the CPH (Aukema et al. 2013).

Rubiconia Dohrn, 1860*Apariphe* Fieber, 1860

44. *Rubiconia intermedia* (Wolff, 1811)

Staria Dohrn, 1860*Rhacostethus* Fieber, 1860

45. *Staria lunata* (Hahn, 1835)

Tribe: **Eysarcorini** Mulsant et Rey, 1866**Eysarcoris** Hahn, 1834*Stollia* Ellenrieder, 1862

46. *Eysarcoris aeneus* (Scopoli, 1763)
Cimex perlatus Fabricius, 1794
Eysarcoris perlatus var. *spinicollis* Puton, 1881
47. *Eysarcoris ventralis* (Westwood, 1837)
Pentatoma inconspicuum Herrich-Schaeffer, 1844
Note: Its first Polish record (Lis 1987) was based on a specimen collected in southern Poland in 1937. Then, this record was regarded as a case of introduction (Lis 1990), and wasn't included in the list of the Polish Heteroptera (Gorczyca 2004). Recently (Taszkowski 2012), its occurrence in Poland was confirmed (a single specimen of this species was collected in the Eastern Beskid Mountains in a mountain meadow).
48. *Eysarcoris venustissimus* (Schrank, 1776)
Cimex melanocephalus Fabricius, 1775
Eysarcoris fabricii Kirkaldy, 1904

Stagonomus Gorski, 1852

49. *Stagonomus amoenus* (Brullé, 1832)
Note: The occurrence of this species in Poland is doubtful (Lis 1990).

50. *Stagonomus bipunctatus* (Linnaeus, 1758)
Pentatoma pusillum Herrich-Schaeffer, 1833
Note: *S. pusillum* regarded for a long time a good species was recently synonymized with *S. bipunctatus* (Derzhansky & Péricart 2005).

Tribe: **Pentatomini** Leach, 1815

- Pentatoma** Olivier, 1789
Tropicoris Hahn, 1834
 51. *Pentatoma rufipes* (Linnaeus, 1758)

- Rhaphigaster** Laporte, 1833
 52. *Rhaphigaster nebulosa* (Poda, 1761)

Tribe: **Piezodorini** Atkinson, 1888

- Piezodorus** Fieber, 1860
 53. *Piezodorus lituratus* (Fabricius, 1794)
Pentatoma incarnatum Germar, 1822
Pentatoma alliaceum Germar, 1824
Pentatoma purpuripennis Hahn, 1834
Piezodorus degeeri Fieber, 1861

Tribe: **Sciocorini** Amyot et Serville, 1843

- Menaccarus** Amyot et Serville, 1843
 54. *Menaccarus arenicola* (Scholtz, 1847)

- Sciocoris** Fallén, 1829
 55. *Sciocoris cursitans* (Fabricius, 1794)
Cimex terreus Schrank, 1801
 56. *Sciocoris distinctus* Fieber, 1851
 57. *Sciocoris homalonotus* Fieber, 1851
 58. *Sciocoris macrocephalus* Fieber, 1851
 59. *Sciocoris microphthalmus* Flor, 1860
 60. *Sciocoris umbrinus* (Wolff, 1804)
Sciocoris brevicollis Fieber, 1851
Sciocoris rotermundi Schumacher, 1912
Sciocoris rotermundi f. *subglabra* Schumacher, 1912

Tribe: **Strachiini** Mulsant et Rey, 1866

- Eurydema** Laporte, 1833
 61. *Eurydema dominulus* (Scopoli, 1763)
 62. *Eurydema fieberi* Fieber, 1837
 63. *Eurydema oleracea* (Linnaeus, 1758)
 64. *Eurydema ornata* (Linnaeus, 1758)
Cimex festivus Linnaeus, 1767
Pentatoma decoratum Herrich-Schaeffer, 1833
Pentatoma pictum Herrich-Schaeffer, 1833
Cimex fallax Scholtz, 1847
 65. *Eurydema rotundicollis* (Dohrn, 1860)

Subfamily: **Podopinae** Amyot et Serville, 1843

- Graphosoma** Laporte, 1833
 66. *Graphosoma lineatum* (Linnaeus, 1758)
Cimex italicus O. F. Müller, 1766
Cimex nigrolineatus Fabricius, 1781

- Podops** Laporte, 1833
 67. *Podops inunctus* (Fabricius, 1775)

Family: **Plataspidae** Dallas, 1851
Brachyplatidae Leston, 1952

- Coptosoma** Laporte, 1833
Globocoris Hahn, 1834

68. *Coptosoma scutellatum* (Geoffroy, 1785)
Cimex globus Fabricius, 1794

Family: **Scutelleridae** Leach, 1815

Subfamily: **Eurygastrinae** Amyot et Serville, 1843

- Eurygaster** Laporte, 1833
 69. *Eurygaster austriaca* (Schrank, 1776)
Cimex frischii Goeze, 1778
Cimex nigrocucullatus Goeze, 1778
Tetyra nigra Fabricius, 1803
 70. *Eurygaster maura* (Linnaeus, 1758)
Tetyra picta Fabricius, 1803
Eurygaster maurus f. *aequalis* Wagner, 1938
 71. *Eurygaster testudinaria* (Geoffroy, 1785)
Eurygaster maura var. *grisescens* Rey, 1888
Eurygaster testudinaria f. *obscuratus* Wagner, 1938
Eurygaster testudinaria f. *triguttatus* Wagner, 1938

Psacasta Germar, 1839

72. *Psacasta exanthematica* (Scopoli, 1763)
Cimex cerinthe Fabricius, 1787

Subfamily: **Odontoscelinae** Amyot et Serville, 1843

- Odontoscelis** Laporte, 1833
 73. *Odontoscelis fuliginosa* (Linnaeus, 1761)
Tetyra carbonaria Zetterstedt, 1819
 74. *Odontoscelis lineola* Rambur, 1839

Subfamily: **Odontotarsinae** Mulsant et Rey, 1866

- Phimodera** Germar, 1839.
 75. *Phimodera flori* Fieber, 1863
 76. *Phimodera humeralis* (Dalman, 1823)
Podops nodicollis Burmeister, 1835
Podops galgulinus Herrich-Schaeffer, 1837
Scutellera sellata Schilling, 1843
Phimodera galgulina var. *pallida* Reuter, 1906
Phimodera galgulina f. *denigrata* Schumacher, 1912
 77. *Phimodera lapponica* (Zetterstedt, 1828)

Family: **Thyreocoridae** Amyot et Serville, 1843

Subfamily: **Thyreocorinae** Amyot et Serville, 1843

- Thyreocoris** Schrank, 1801.
 78. *Thyreocoris scarabaeoides* (Linnaeus, 1758)

Remarks

Two additional species of Pentatomidae, i.e., *Codophila varia* (Fabricius, 1787) and *Vilpianus gali* (Wolff, 1802) were listed for Poland in the "Catalogue of the Heteroptera of the Palaearctic Region, volume 5" (Ridder 2006) in spite of the fact they were excluded from a list of the Polish fauna long ago (Lis 1990). These two errors in CPH were recently corrected in the supplementary volume to the catalogue (Aukema et al. 2013).

References

Aukema B., Rieger Ch., Rabitsch W. (eds.) 2013.
Catalogue of the Heteroptera of the Palaearctic Re-

- gion. Volume 6 (Supplement)*. The Netherland Entomological Society, Amsterdam i-xxiv, 629 pp.
- Belousova E. N. 2007. Revision of the shield-bug genera *Holcostethus* Fieber and *Peribalus* Mulsant et Rey (Heteroptera, Pentatomidae) of the Palaearctic Region. *Entomological Review* **87**: 701-739.
- Davidová-Vilímová J. 2006. Family Plataspidae Dallas, 1851. [in:] Aukema B., Rieger Ch. (eds.) *Catalogue of the Heteroptera of the Palaearctic Region. Volume 5 (Pentatomomorpha II)*. The Netherland Entomological Society, Amsterdam i-xiii, 550 pp.
- Derzhansky [as Derjanschi] V., Péricart J. 2005. Hémiptères Pentatomoidea Euro-Méditerranéens. 1. Généralités. Systématique: Première Partie. *Faune de France* **90**: 1-494.
- Gorczyca J. 2004. Pluskwiaki różnoskrzydłe (Heteroptera). [in:] Bogdanowicz W., Chudzicka E., Pilipiuk I., Skibińska E. (eds.) *Fauna of Poland. Characteristics and checklist of species. Volume I*. Muzeum i Instytut Zoologii PAN, Warszawa, 509 pp.
- Göllner-Scheiding U. 2006a. Family Acanthosomatidae Signoret, 1864. [in:] Aukema B., Rieger Ch. (eds.) *Catalogue of the Heteroptera of the Palaearctic Region. Volume 5 (Pentatomomorpha II)*. The Netherland Entomological Society, Amsterdam i-xiii, 550 pp.
- Göllner-Scheiding U. 2006b. Family Scutelleridae Leach, 1815 – shield bugs. [in:] Aukema B., Rieger Ch. (eds.) *Catalogue of the Heteroptera of the Palaearctic Region. Volume 5 (Pentatomomorpha II)*. The Netherland Entomological Society, Amsterdam i-xiii, 550 pp.
- Lis J.A. 1986. *Carpocoris melanocerus* (Mulsant et Rey, 1852) (Heteroptera, Pentatomidae) - a new species for the Polish fauna. *Polskie Pismo Entomologiczne* **56**: 221-222. [in Polish].
- Lis J.A. 1987. Rare and new true-bugs (Heteroptera, Pentatomomorpha) for the Polish fauna. *Przegląd Zoologiczny* **31**: 327-330. [in Polish].
- Lis J.A. 1989. Shield-bugs of Poland (Heteroptera, Pentatomoidea) – a faunistic review. I. Plataspidae, Thyreocoridae, Cydnidae, Scutelleridae and Acanthosomatidae. *Polskie Pismo Entomologiczne* **59**: 27-83.
- Lis J. A. 1990. Shield-bugs of Poland (Heteroptera, Pentatomoidea) - a faunistic review. Pentatomidae. *Annals of the Upper Silesian Museum, Entomology* **1**: 5-102.
- Lis J. A. 2006a. Family Thyreocoridae Amyot & Serville, 1843 – negro-bugs. [in:] Aukema B., Rieger Ch. (eds.) *Catalogue of the Heteroptera of the Palaearctic Region. Volume 5 (Pentatomomorpha II)*. The Netherland Entomological Society, Amsterdam i-xiii, 550 pp.
- Lis J. A. 2006b. Family Cydnidae Billberg, 1820 – burrowing bugs (burrower bugs). [in:] Aukema B., Rieger Ch. (eds.) *Catalogue of the Heteroptera of the Palaearctic Region. Volume 5 (Pentatomomorpha II)*. The Netherland Entomological Society, Amsterdam i-xiii, 550 pp.
- Lis J. A., Lis B., Ziaja D. J. 2012. *Heteroptera Poloniae 2. Pentatomoidea część I. Plataspidae, Thyreocoridae, Cydnidae, Acanthosomatidae, Scutelleridae*. Centrum Studiów nad Bioróżnorodnością, Katedra Biosystematyki, Uniwersytet Opolski, Opole, 144 pp.
- Ribes J., Pagola-Carte S., Zabalegui I. 2008. On some Palaearctic Carpocorini (Hemiptera: Pentatomidae: Pentatominae). *Heteropterus Revista de Entomología* **8**: 155-169.
- Rider D. A. 2006. Pentatomidae Leach, 1815. [in:] Aukema B., Rieger Ch. (eds.) *Catalogue of the Heteroptera of the Palaearctic Region. Volume 5 (Pentatomomorpha II)*. The Netherland Entomological Society, Amsterdam i-xiii, 550 pp.
- Taszakowski A. 2012. The occurrence of *Eysarcoris ventralis* (Westwood, 1837) (Hemiptera: Pentatomidae) in Poland. *Acta entomologica silesiana* **20**: 33-35. [in Polish].