

Notes on nomenclature and distribution of some Palaearctic Pentatomidae (Heteroptera)

I.M. Kerzhner

Kerzhner, I.M. 2005. Notes on nomenclature and distribution of some Palaearctic Pentatomidae (Heteroptera). *Zoosystematica Rossica*, **14**(1): 73-75.

Eurydema dominulus montana Kerzhner, 1972 is considered a separate species (stat. n.). Two tentative synonymies are proposed: *Sciocoris macrocephalus* Fieber, 1851 = ? *S. europaeus* Amyot & Serville, 1843; *Staria lunata* (Hahn, 1835) = ? *Cimex impressus* Gravenhorst, 1807. Some nomenclatural problems are discussed and some new records of species are included.

I.M. Kerzhner, Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, St.Petersburg 199034, Russia. E-mail: kim@ik3599.spb.edu

The paper includes new records, new synonymies and discussion of some nomenclatural problems. All the material examined is kept at the Zoological Institute in St.Petersburg.

Subfamily **PODOPINAE**

Crypsinus jakowleffi Schouteden, 1905. *Lectotype* (present designation): ♂, Sarp. [= Sarepta]. *Paralectotypes*: 1 ♂, Sarp.; 1 ♂, 2 ♀, *Sarp.; 1 ♀, Bogdo; 1 ♀, *Bogdo; 1 ♀, R. Pesk. [= Ryn Peski]; 1 ♀, Astrachan [printed]. The asterisks mark inscriptions in Cyrillic characters. All the specimens have two additional labels: "k. V. Yakovleva" [B. Jakovlev's collection] and "*Crypsinus angustatus* Bär. Oshanin det.". – The name was given to specimens described by Jakovlev (1884) from the lower Volga area as *C. angustatus* (Baerensprung) under a wrong assumption that Jakovlev misidentified the species. Junior synonym of *C. angustatus* (Baerensprung, 1859).

Putonia asiatica Jakovlev, 1885. **Kazakhstan** (first record for European part): 2 ♀, railway station Saikhin, 30.VI.1961 (Emeljanov & Kerzhner).

Tholagmus Stål, 1860 and **Vilpianus** Stål, 1860. The two genera were described almost simultaneously by Stål (1860) and (as *Stiraspis* and *Acroplax*, respectively) by Fieber (1860). Fieber's work was published in November (Kirkaldy, 1909: xix); as the exact date is unknown, November 31 is deemed to be the date of publication. For Stål's paper, Kirkaldy (1909: xxxvii) stated: "the part of the Berl. E. Z. with the descriptions of the clashing Stålian genera, was not issued till at least very late in 1860, and Mr. Dames tells me that he thinks it did not appear till 1861. I have therefore given preference to genera of Fieber". However, the receipt of "Berliner entomologische Zeitschrift. 1860. 2-4tes Vierteljahrsheft" is announced at the meeting of the Moscow Naturalists' Society on 17 November 1860 [old style; = 29 November] (Bull. Soc. Natur. Mosc. 1860, Séances, p. 70). Apparently, the issue was published in late October or early November. This gives grounds to recognize the priority of Stål, as accepted almost universally.

Vilpianus galii (Wolff, 1802). **Iran** (new record): 69 spcm., Astrabad [= Gorgan], 20.IV-21.V.1914 (Kiritshenko).

Ventocoris halophilus (Jakovlev, 1874). **Russia** (first record for Siberia): 1 ♀, Omsk, 25.VI.1922 (Bezrukov). **China** (new record): 1 ♀, *Xinjiang*, lower Kunges [= Künes], late June (Przewalski).

V. obesus (Stål, 1865). **Israel** (new record): 3 ♂, 2 ♀, Eilat, on *Capparis* sp., 15-16.VI.1999 (Kerzhner).

Subfamily **PENTATOMINAE**

Neolodosocoris chinensis Memon & Ahmad, 2002. The new genus and species were described from a specimen "with tags, *H. sulcata* Thunberg, USNM, Poh ho Dist. May 12, 1937, TSZ Har Coll. For E. Tinkham and China". I was unable to locate "Poh ho Dist.", but according to Tinkham (1940: 278, 279, 292, 342), Tsz Hai (sic!) collected on 5-18.V.1937 in Loh Fau Shan [= Luofushan] Mountains, Guangdong.

Sciocoris macrocephalus Fieber, 1851 = ? *S. europaeus* Amyot & Serville, 1843, **syn. n.** *S. europaeus* was described from a female from Marseille and a male from Paris. The types are not located. The species was overlooked in catalogues of Heteroptera. According to the original description, the body is greyish, 5-6 mm long, and the lateral margin of head is with a deep incision before eye. The latter character fits three species occurring in France: *S. homalonotus* Fieber, *S. microphthalmus* Flor, and *S. macrocephalus* Fieber. However, *S. homalonotus* is larger than given in the original description and *S. microphthalmus* is usually brownish and probably does not occur in Marseille. The identity with *S. macrocephalus* seems the most probable and agrees with descriptive notes by Signoret (1862) for a specimen from Corsica.

Sciocoris consobrinus Kiritshenko, 1952 (V. Derzhansky det.). **Kazakhstan** (new record): *Dzhambul Prov.*: 4 ♂, 2 ♀, Alexander Range [= Kirgiz Alatau Mts], Makbal Pass, 8-11.VI.1910 (Kiritshenko); 1 ♀, Aulie-Ata [= Dzhambul], Ulkun-burun-tau Range, 30.VI.1930 (Bianchi); *Chimkent Prov.*: 2 ♂, Klyuchi near Turkestan, VI-VII.1909 (Trizna). **Turkmenistan** (new record): 1 ♂, 1 ♀, Kugitangtau, 22.V.1976 (G. Medvedev).

Sciocoris maculatus Fieber, 1851 (V. Derzhansky det.). **Russia** (new record): 1 ♀, Dagestan, former Avarskiy Distr., Arakany [SE of Untsukul], 1930 (Omarov).

Sciocoris ogivus Jakovlev, 1894 (V. Derzhansky det.). **Iran** (new record): 2 ♂, 2 ♀, Tajrish [now suburb of Teheran], 25-30.VI.1928 (Siyazov); 1 ♀, island Kojun, lake Urmia, "Mus. Caucas. 100-16, Exp. Urmiana". **Turkey** (new record): 1 ♂, Anatolia, Dikmen-dagh, IV.1934 (anonymous collector of Jenjouriste); 1 ♀, Asia Minor, Tireh, 20.VIII.1931 (B.P. Uvarov).

Tisia gracilis Hoberlandt, 1993 (V. Derzhansky det.). **Mongolia** (new record): *Hovd Aimag*: 2 ♂, locality Elsen-Davseg, 25 km SSW of Uench, 28.VI.1980 (G. Medvedev and Kerzhner); 1 ♂, 25 km NNW of Bulgan, 2.VII.1980 (G. Medvedev); *Bayan-Hongor Aimag*: 2 ♂, 2 ♀, Uldziin Gol and Dzun Mod, 70 km S of Shine Dzhist, 18.VII and 1.VIII.1981 (Korotyayev). I have also examined a specimen from the collection of the Zoological Museum in Berlin labelled "Mittelgobi Aimak, Sanddünen 56 km NW vom Camp, 1.VI.1983, leg. J. Schulze". – The species was collected in quicksand. Its behaviour was very precisely described by Hoberlandt (1993).

Phaeocoris ellipticus (Herrich-Schaeffer, 1840). **Kyrgyzstan** (new record): 1 ♀, Teploklyuchenskoe SW of Przhval'sk, 6.X.1944 (Leibishchev).

Stagonomus devius Seydenstücker, 1965. **Turkmenistan** (new record): 1 ♂, ravine Igdedzhik, 6 km from Kara-Kala, 9.VI.1964 (Loginova).

Carpocoris pudicus (Poda, 1761). The name *Cimex incarnatus* Goeze, 1778 was given to the species from Germany (Regensburg) figured by Schaeffer (1766: pl. 57, fig. 3). Tamanini (1958) was in doubt about the identity of *C. incarnatus* and placed it in synonymy with both *C. pudicus* and *C. purpureipennis* (De Geer, 1773). Schaeffer's figure does not contradict to synonymy with any of the two species. Schrank (1801) was the first to synonymize *C. incarnatus*, and as he synonymized it with *C. pudicus*, synonymy with this (and only this) species can be retained. On the other hand, Tamanini (1958) placed in synonymy with *C. pudicus* the names *Pentatoma wilkinsonii* Westwood, 1837 (terra typica: Egypt) and *P. pallida* Dallas, 1851 (terra typica: India). These synonymies are hardly correct, as *P. pudicus* does not occur in India or Pakistan, and its occurrence in Egypt, despite a record of one specimen from Cairo (Linnavuori, 1964), seems problematic. – *Note*. Schaeffer's work does not contain dates of publication on the title pages; its dating is a source of controversy. Vol. 1, pt. 1 (pls 1-50) is universally dated 1766, according to the date of preface. Vol. 1, pt. 2 (pls 51-100) was dated 1766, 1767 or 1768. It contains a dedication to Danish king Christian VII at occasion of his marriage with Carolina Mathilda, sister of British king Georg III, on 8 November 1766 (see for details the *Brockhaus Konversations Lexicon, neue revidierte Jubiläums Ausgabe*, vol. 4, 1901, p. 222; vol. 7, 1902, p. 732; vol. 10, 1902, p. 178). Undoubtedly, this part of Schaeffer's book was published soon after the above marriage, in late 1766 or early 1767. This explains numerous citations of this part by Linnaeus (1767). I accept the date 1766, as used by Dolling et al. (1999). Vol. 2 (published in two parts, pls 101-150 and 151-200, respectively) is always dated 1769. Vol. 3 (pls 201-280) is usually dated 1779, but according to Evenhuis (1997, p. 692), the volume was shown at the 1776 Leipzig Easter Book Fair. In addition, Goeze (1778) stated that he bought this volume and cited many figures from it. This gives ground to accept 1776 as the date of publication.

Staria lunata (Hahn, 1835) = ? *Cimex impressus* Gravenhorst, 1807 (junior primary homonym of *Cimex impressus* Coquebert, 1801), **syn. n.** Herrich-Schaeffer (1833: text to pl. 10) published a description and figure of this species under the heading "*Pentatoma impressum* Grav.?". Undoubtedly, he had in mind *Cimex impressus*

Gravenhorst, 1807. The original description of the latter (Gravenhorst, 1807, p. 348; translation from German) is as follows: "Yellow-brown but looking black-brown because of numerous punctures on dorsal and ventral side; only the outermost margin of pronotum and hemelytra [lateral view! – I.K.] yellow-brown. Relatively stockier than the preceding [*Cimex foetidus* Gravenhorst, nomen dubium]; body length almost 3 lines [about 7 mm]". This description does not contradict to *S. lunata* (dark specimens), but is too short for reliable conclusions; in particular, the pale spots at the base and apex of scutellum and the black bands on connexivum are not mentioned. Moreover, Gravenhorst did not indicate the type locality, and his collection included also non-European specimens, e.g. from South Africa. Some authors erroneously cited the name in synonymy with *S. lunata* as "*Pentatoma impressum* Herrich-Schaeffer, 1833".

Chlorochroa juniperina (Linnaeus, 1758). **Armenia** (new record): 1 ♀, Shurnukh, canyon of Vorotan River, 8.IX.1956 (Trjapitzin).

Chlorochroa pinicola (Mulsant & Rey, 1852). **Kazakhstan** (new record): 1 ♂, North Kazakhstan Prov., Borovoe, forestry college, 29.VI.1932 (V. Popov).

Eurydema montana Kerzhner, 1972, **stat. n.** = *E. dominulus montana* Kerzhner, 1972. **Kazakhstan** (new record): 1 ♂, 1 ♀, Kalbinski Range, 70 km SSE of Ust'-Kamenogorsk [= Öskemen], 800 m, light pine forest, 10.VIII.1978 (Kerzhner). – The wide distribution of this form and stability of its distinguishing characters allows me to consider it a separate species.

Eurydema gebleri Kolenati, 1846. **China, Xinjiang** (first record for the province): 1 ♀, valley of Ili W of Kulja [= Yinin], V-VI.1878 (Regel).

Subfamily ASOPINAE

Arma custos (Fabricius, 1794). **Azerbaijan** (new record): 1 ♀, Geok-Tapa [nr Khanlar, SW of Gandja] (Shelkovnikov).

Picromerus bidens (Linnaeus, 1758). **China, Xinjiang** (first record for the province): 1 ♀, Kash at Ili River (Regel); 1 ♂, upper Kunges [= Künes], early September (Przewalski).

P. lewisi Scott, 1874. The record from Ust'-Bukhtarminsk was given by Josifov & Kerzhner (1978) as referring to Siberia, but the locality is situated in Eastern Kazakhstan.

Rhacognathus punctatus (Linnaeus, 1758). **Turkey** (new record): 1 ♀, *Kars* ("Armen. Ross."), Medjingert [60 km W of Kagyzman] (collector not named).

Troilus luridus (Fabricius, 1775). **Turkey** (new record): 2 ♀, *Kars*, Kazikoporan, VI.1910 (Ksenčopolski).

Acknowledgements

The collection of ZIN is supported by the Russian Federal Agency for Science and Innovations (state contract no. 02.452.12.7111).

References

- Dolling, W.R., Rider, D.A. & Rolston, L.H. 1999. *Catalog of the names of Cimex Linnaeus, with comments on early works concerning the Heteroptera*: 1-154. Thomas Say Publications in Entomology, Monographs, Latham, Maryland: Entomological Society of America. 154 p.
- Evenhuis, N.L. 1997. *Litteratura taxonomica Diptero-rum (1758-1930)*. 2 vols. Leiden: Backhuys. 871 p.

- Fieber, F.X.** 1860-1861. *Die europäischen Hemiptera. Halbflügler. (Rhynchota Heteroptera.)*. Wien: Gerold's Sohn. vi, 444 pp. (1860: i-vi, 1-112; 1861: 113-444).
- Goeze, J.A.E.** 1778. *Entomologische Beyträge zu des Ritter Linné zwölften Ausgabe des Natursystems*, 2. Leipzig: Weidmanns Erben & Reich. lxxii + 352 p.
- Gravenhorst, J.L.C.** 1807. *Vergleichende Uebersicht des Linneischen und einiger neuern zoologischen Systeme ... nebst dem eingeschalteten Verzeichnisse der zoologischen Sammlung der Verfassers und der Beschreibungen neuer Thierarten, die in derselben vorhanden sind*. Göttingen: Dieterich. xx + 476 p.
- Herrich-Schaeffer, G.A.W.** 1833. *Faunae Insectorum Germanicae initia oder Deutschlands Insekten*, 115. Regensburg. 24 pls and text.
- Hoberlandt, L.** 1993. Results of the Czechoslovak-Iranian entomological expedition to Iran 1973. Heteroptera, Pentatomidae: new genus and species of Sciocorini. *Folia Heyrovskyana*, 1(2): 15-18.
- Jakovlev, V.E.** 1884. Hemiptera Heteroptera des Astrachanischen Gebietes. *Horae Soc. entomol. Ross.*, 18: 141-243. (In Russian and German).
- Josifov, M. & Kerzhner, I.M.** 1978. Heteroptera aus Korea. II. Teil (Aradidae, Berytidae, Lygaeidae, Pyrrhocoridae, Rhopalidae, Alydidae, Coreidae, Urostylidae, Acanthosomatidae, Scutelleridae, Pentatomidae, Cydnidae, Plataspididae). *Fragm. faun.* (Warszawa), 23: 137-196.
- Kirkaldy, G.W.** 1909. *Catalogue of the Hemiptera (Heteroptera). 1, Cimicidae*. Berlin: Dames. xl, 392 p.
- Linnaeus, C.** 1767. *Systema Naturae. Editio duodecima, reformata*, 1(2): 533-1327. Holmiae: Salvi.
- Linnavuori, R.** 1964. Hemiptera of Egypt, with remarks on some species of the adjacent Eremian region. *Ann. zool. Fenn.*, 30: 306-356.
- Schaeffer, J.C.** 1766-1776. *Icones Insectorum circa Ratisbonam indigenorum coloribus naturam referentibus expressae*. 3 vols, 280 pls. Regensburg: Zunkel. [See comments on the dates of publication under *Carpocoris pudicus*].
- Schrank, F. von P.** 1801. *Fauna Boica*, 2(1). Ingolstadt: Krüll. viii, 374 p.
- Signoret, V.** 1862. Espèces nouvelles ou peu connus d'hémiptères trouvés en Corse par M. Bellier de la Chavignerie. *Ann. Soc. entomol. France* (4), 2: 375-378.
- Stål, C.** 1860. Zwei neue europäische Cimiciden-Gattungen. *Berlin. entomol. Z.*, 4: 276-277.
- Stehlík, J.L.** 1955. Pří spevek k poznání druhu *Eurydema fieberi* Schumm. (Pentatomidae). *Acta Mus. Moraviae*, 40: 220-242.
- Tamanini, L.** 1958. Revisione del genere *Carpocoris* Klt. con speciale riguardo alle specie italiane (Hemiptera Heter., Pentatomidae). *Mem. Mus. civ. Stor. natur. Verona*, 6: 333-388.
- Tinkham, E.R.** 1940. Taxonomic and biological studies on the Cyrtacanthinae of South China. *Lingnan Sci. J.*, 19(3): 269-382.

Received 5 September 2005