# Notes on taxonomy and nomenclature of Palaearctic Miridae (Heteroptera)

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The paper includes new synonymies, new combinations, and some notes on nomenclature of Palaearctic Miridae.

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Specimens used in this study are kept in the Zoological Institute, St. Petersburg (ZISP).

# On some fixations of type species

Kerzhner (1993) stated that the type species of Pachypterna, Cyphodema, Xenocoris, Auchenocrepis and Macrotylus were fixed by subsequent monotypy. This statement is incorrect. According to the Art. 12b(6) of the International Code of Zoological Nomenclature, the names of respective type species became available simultaneously with the names of genera and hence these type species were fixed by monotypy.

### Subfamily BRYOCORINAE

Michailocoris josifovi Štys, 1985 = M. josifovi koreanus Stys, 1985, syn. n. The species was described from the extreme south of the Primorsk Territory, its subspecies from environs of Pyongyang. Judging from the extensive additional material collected later from the Primorsk Terr., the differences between these nominal taxa are within the individual variability.

Tupiocoris annulifer (Lindberg, 1927), comb. n. (Dicyphus). The species was transferred by Kerzhner (1988a, 1988b) to Neodicyphus McGavin, 1982, the latter synonymized with Tupiocoris China & Carvalho, 1952 by Cassis (1986).

### Subfamily DERAEOCORINAE

Stethoconus praefectus (Distant, 1909). Kerzhner (1970: fig. 11a, 11b) figured the male genitalia of a specimen from S China (Nanjing) as "Stethoconus Japonicus". The specimen belongs actually to S. praefectus.

Deraeocoris subg. Plexaris Kirkaldy, 1902, stat. n. = subg. Phaeocapsus Wagner, 1963, syn. n. Plexaris was described as a genus, then placed in synonymy with Camptobrochis, which in turn was reduced to subgenus of Deraeocoris. The type species of

Plexaris, P. saturnides Kirkaldy, 1902, is a junior synonym of Deraeocoris ostentans (Stål, 1855). Linnavuori (1975) placed the latter species in the subgenus Phaeocapsus. Accordingly, Plexaris should be restored as a valid subgeneric name and Phaeocapsus synonymized with it.

Deraeocoris ater (Jakovlev, 1889) = D. bicolor Miyamoto & al., 1994, syn. n. The name given by Miyamoto & al. (1994) is a junior primary homonym of D. ruber var. bicolor Knight, 1921. The colour form described by them is known as var. limbicollis Reuter, 1901.

Deraeocoris ventralis megophthalmus Josifov & Kerzhner, 1972 = D. (Knihtocapsus) izjaslavi Miyamoto & al., 1994, syn. n. The species does not belong to the subgenus Knightocapsus.

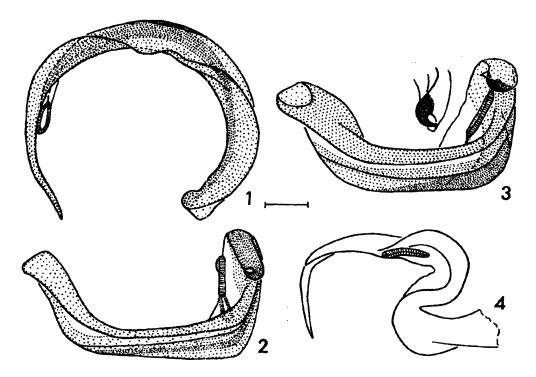
Deracocoris ribauti Wagner, 1943 = ? Capsus scutellaris var. marginiventris Rey, 1894, syn. n. Rey (1894) described var. marginiventris without indication of locality, as he usually made for specimens from France; it may be presumed that the 3 females in his collection (one not labelled and two from France) are the true types. Wagner (1955) indicated in error that the variety was described from Serbia and suspected (Wagner, 1953) its synonymy with Deracocoris ventralis Reuter. The latter is not found in France, thus synonymy with D. ribauti in which females have often red sides of abdomen seems more probable.

#### Subfamily MIRINAE

Myrmecoris gracilis (R.F. Sahlberg, 1848) = M. rubricatus Jakovlev, 1882, sym. n. Kerzhner (1962) downgraded M. rubricatus to subspecies of M. gracilis, but it is better to consider it as a pale variety.

### **Subfamily ORTHOTYLINAE**

Heterotoma Lepeletier & Serville, 1825 = Pachycera Billberg, 1820 (nomen oblitum), syn. n. The type species of Pachycera by monotypy is Cimex spissi-



Figs 1-4, vesica: 1, Psallus holomelas; 2, Orthonotus pallidipennis; 3, O. alpestris; 4, Phoenicocoris opacus. Scale: 0.1 mm.

cornis Fabricius, 1777 (= Cimex planicornis Pallas, 1772), thus this name is an objective synonym of Heterotoma. The name Pachycera was not used since its proposal; Heterotoma is used in many dozens of works.

# Subfamily PHYLINAE

Agraptocoris Reuter, 1903 = Tibetocoris Hutchinson, 1934, syn. n. The synonymy is based on comparison of the original description and figures of Tibetocoris with specimens of Agraptocoris.

Agraptocoris margaretae (Hutchinson, 1934), comb. n. (*Tibetocoris*). See the generic synonymy above.

Atomoscelis omusta (Fieber, 1861) = A. roubali Hoberlandt, 1961, syn. n. I examined 3 paratypes (2  $\sigma$ , 1  $\circ$ ) of A. roubali. They do not differ from A. onusta either in the external characters or in the structure of the male genitalia. Contrary to the original description, claws in paratypes of A. roubali have small pulvillae. The generic name A tomoscelis is of feminine gender.

Camptotylidea flavida (Nonnaizab & Yang, 1994), comb. n. (Atomophora). Atomophora was subdivided recently (Linnavuori, 1990) in Atomophora and Camptotylidea. A. flavidus Nonnaizab & Yang and A. punctulatus Nonnaizab & Yang belong to this latter genus.

Camptotylidea punctulata (Nonnaizab & Yang, 1994), comb. n. (Atomophora). See comments under C. flavida.

Chlamydatus (Euattus) pallidipes (Reuter, 1906), comb. n. (Sthenarus). Lectotype of S. pallidipes (designated here): σ', labelled "Sych., r. Syaochzhinkho, Yoza – Pan'shamyr, Potan., 26.VII.93" [in Russian], "Sthenarus pallidipes Reut. n. sp. Typ." [in Reuter's handwriting], (ZISP); in addition, 1 σ' and 1 γ paralectotypes are examined. The species is very similar to Ch. drymophilus Vinokurov, but differs in having the sides of head below eyes yellow and the theca with a low carina. The specimen described by Reuter as var. β is a male of Ch. pullus Reut.

Glaucopterum Wagner, 1963 = Putshkoviattus Josifov, 1993, syn. n. The type species of Putshkoviattus, P. muminovi Josifov, 1993, differs from other species of Glaucopterum in the completely black coloration, but in the structure of vesica it is closely related to G. albonigrum Kerzh. and G. maculipenne Kerzh. living, like P. muminovi, on Atraphaxis and having partly black body.

Glaucopterum muminovi (Josifov, 1993), comb. n. (Putshkoviattus). See the generic synonymy above.

Glaucopterum atraphaxidis (V. Putshkov, 1979), comb. n. (Chlamydatus). The species was placed in Chlamydatus with some reservation, and Josifov (1993) suspected that it actually belongs to Putshkoviattus. It is worth to note that the vesica in this species is with two apical processes, as typical of

Glaucopterum (in Chlamydatus always with one). The sexual dimorphism in the structure of antennae does not occur in other species of Glaucopterum and the black coloration of the body and antennae is shared with G. muminovi only.

Heterochlorillus amygdali (Linnavuori, 1965), comb. n. (Chlorillus). According to the structure of the aedeagus, Linnavuori's species should be placed in Heterochlorillus V. Putshkov. As other species of this genus, it is living on shrubs; species of Chlorillus inhabit herbaceous Lamiaceae.

Maurodactylus albidus (Kolenati, 1845) = M. alutaceus var. discifer Reuter, 1901, syn. n. The variety was described from 2 of collected by Hauser in "Transcaspien" (Turkmenistan or SW Uzbekistan), they were examined and one of them designated lectotype (Kerzhner, 1996). M. alutaceus is a species distributed in Spain and South France, the variety should be referred to the closely related M. albidus.

Orthonotus Stephens, 1829 = Eucharicoris Reuter, 1906, syn. n. The type species of Eucharicoris belongs to Orthonotus (see below).

Orthonotus pallidipennis (Reuter, 1906), comb. n. (Eucharicoris). Lectotype (designated here): o', labelled "Sich., r. Fubyankho, Lamasy – Fubyan, Potan., 3.VIII.93" [in Russian], "Eucharicoris pallidipennis Reut. n. g. et sp. Typ." [Reuter's handwriting] (ZISP). In addition, 2 9 paralectotypes (ZISP) are examined. The vesica (Fig. 2) is typical of Orthonotus, with a hook at apex.

Orthonotus alpestris (Reuter, 1906), comb. n. (Psallus). I examined the holotype of (ZISP). Also in this species the structure of vesica (Fig. 3) is typical of Orthonotus. O. alpestris differs from other species of the genus in the black spots on tibiae.

Phoenicocoris opacus (Reuter, 1906), comb. n. (Psallus). Lectotype (designated here): \$\sigma\$, labelled "Sich., les sev. skl. perev. Khunchyao, Potan., 11.VIII.93" [in Russian; label not mentioned in the original description in error!], "Psallus opacus Reut. n. sp. Typ." [Reuter's handwriting] (ZISP). In addition 10 \$\sigma\$ paralectotypes are examined. The lectotype is teneral, with the vesica (Fig. 4) not sclerotized (its very base was broken during preparation). The species definitely does not belong to Psallus, but it is placed in Phoenicocoris with some doubt. It is similar to Ph. kyushuensis Lnv. in some external characters, but the eyes are much smaller, femora pale with dark spots (as in Psallus) and the vesica with two unequal apical processes.

Psalus subgen. Mesopsallus Wagner, 1970. When considering the names Apocremnus and Mesopsallus as isogenotypic, Kerzhner (1993: 100) overlooked the fact that the type species of Apocremnus was misidentified by Fieber. This circumstance gives formal reason to refer the case to the International Commission on Zoological Nomenclature for designation of the type species of Apocremnus (better to fix betuleti Fallen) under the plenary powers. Accordingly, Mesopsallus will be saved as a separate subgenus.

Psallus (Mesopsallus) holomelas Reuter, 1906. Lectotype (designated here): o', labelled "Sich., r. Fubyankho, Lamasy – Fubyan, Potan., 3.VIII.93" [in Russian], "Psallus holomelas Reut. n. sp. Typ." [Reuter's handwriting] (ZISP). In addition, 1 o' and 4 9

paralectotypes (ZISP) are examined. The vesica (Fig. 1) of the lectotype is illustrated.

Psallus (Phylidea) ulmi Kerzhner & Josifov, 1966 = P. (Ph.) kerzhneri Qi & Nonnaizab, 1994 (junior primary homonym of P. kerzhneri Josifov, 1992), syn. n. = P. (Ph.) innermongolicus Qi & Nonnaizab, 1995 (new name for kerzhneri Qi & Nonnaizab, 1994). P. ulmi is a common species on Ulmus pumila in Mongolia (including its southern part), Transbaikal, Russian Far East and Korea, it was also recorded from China. The species is very variable in coloration. I did not examine the type specimens of P. kerzhneri Qi & Nonnaizab, but judging from the original description accompanied with good figures of the male genitalia, it is a synonym of P. ulmi.

Salicarus fulvicornis (Jakovlev, 1889), comb. n. (Agalliates) = S. flagellatus (Wagner, 1967), syn. n. Lectotype of Agalliastes fulvicornis, designated here: Q, with the following labels: golden circle, "Khara-Boro" [in Cyrillic characters; Jakovlev's handwriting], "k. V. Yakovleva" [in Cyrillic characters], "fulvicornis" [Jakovlev's handwriting] (ZISP). Both Agalliastes fulvicornis (later placed in Chlamydatus) and Phoenicocoris flagellatus (transferred to Salicarus by Vinokurov & Kanyukova, 1995) were described from N Mongolia, the species occurs also in South Siberia. It is living on Caragana.

**Tuponia arcufera** Reuter, 1879 = T. elegantulus Zheng & Li, 1992, syn. n. Differences indicated for T. elegantulus are within the limits of individual variability. The synonymy was confirmed by examination of paratypes of T. elegantulus.

Tuponia mongolica Drapolyuk, 1980 = T. tamaricicola Hsiao in Hsiae & Meng, 1963 (junior primary homonym of T. tamaricicola Lindberg, 1939), syn. n. = T. hsiaoi Zheng & Li, 1992 (new name for T. tamaricicola Hsiao, 1963), syn. n. Drapolyuk (1980) suspected synonymy of T. tamaricicola Hsiao with T. arcufera Reut. Zheng & Li (1992) correctly indicated that these species are not synonyms, but Hsiao's species is a synonym of T. mongolica. The latter synonymy is confirmed by examination of Chinese specimens received from L.Y. Zheng.

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#### References

Cassis, G. 1986. A systematic study of the subfamily Dicyphinae (Heteroptera: Miridae): 1-400. Univ. Microfilms Intern., Ann Arbor. (Ph. D. thesis, Oregon State Univ., 1984; registered in Zool. Rec. 1988).

Drapolyuk, I.S. 1980. Review of the capsid bugs of the subgenus *Tuponia* s. str. (Heteroptera, Miridae) from the USSR and Mongolia. *Nasekomye Mongolii*, 7: 43-68 [in Russian].

Josifov, M. 1993. Ein kleiner Beitrag zur Systematik der Miriden (Insecta: Heteroptera). Reichenbachia, 30: 9-15.

- Kerzhner, I.M. 1962. Materials on the taxonomy of capsid bugs (Hemiptera, Miridae) in the fauna of the USSR. Entomol. Obozr., 41: 371-382. (In Russian).
- Kerzhner, I.M. 1970. New and little-known capsid bugs (Hemiptera, Miridae) from the USSR and Mongolia. Entomol. Obozr., 49: 634-645. (In Russian).
- Kerzhner, I.M. 1988a. Family Miridae. In: P.A. Lehr (ed.). Opredelitel' nasekomykh Dal'nego Vostoka SSSR [Keys to the insects of the Far East of the USSR], 2: 778-857. Leningrad. (In Russian).
- Kerzhner, I.M. 1988b. Novye i maloizvestnye poluzhestkokrylye nasekomye (Heteroptera) s Dal'nego Vostoka SSSR [New and little-known heteropterous insects (Heteroptera) from the Far East of the USSR: 1-83. Vladivostok, 1987. (In Russian).
- Kerzhner, I.M. 1993. Notes on synonymy and nomenclature of Palaearctic Heteroptera. Zoosyst. ross., 2: 97-105.
- Kerzhner, I.M. 1996. Type specimens of Palaearctic Miridae and Nabidae in the Museum of Natural History in Vienna (Heteroptera). Zoosyst. ross., 4 (1995): 273-278.
- Linnavuori, R. 1975. Hemiptera of the Sudan, with remarks on some species of the adjacent coun-

- tries. 4. Miridae and Isometopidae. Ann. zool. fenn., 12: 1-118.
- Linnavuori, R. 1990. Revision of the Atomophora complex (Heteroptera, Miridae) of the Eremian subregion. Entomol. fenn., 1: 45-64.
- Miyamoto, S., Yasunaga, T. & Saigusa, T. 1994. Heteroptera from the Russian Far East collected by T. Saigusa in 1990, with descriptions of two new mirine species. *Japan. J. Entomol.*, 62: 243-251.
- Rey, C. 1894. Remarques en passant. Echange, 10: 1. Vinokurov, N.N. & Kanyukova, E.V. 1995. Konspekt fauny poluzhestkokrylykh nasekomykh (Heteroptera) Sibiri [Conspect of the fauna of Heteroptera of Siberia]: 1-62. Yakutsk. (In Russian).
- Wagner, E. 1953. Deraeocoris ventralis Reut., eine bisher übersehene deutsche Miriden-Art (Hem. Heteropt). Nachr. naturwiss. Mus. Stadt Aschaffenburg, 39: 47-53.
- Wagner, E. 1955. Ergebnisse einer Durchsicht der Sammlung Rey. Nachr. naturwiss. Mus. Stadt Aschaffenburg, 48: 25-37.
- Zheng, L.Y. & Li, H.Y. 1992. Genus *Tuponia* Reuter from China (Insecta, Heteroptera: Miridae). *Reichenbachia*, 29: 9-13.

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