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## New synonyms and new combinations for some Delphacidae (Hemiptera, Auchenorrhyncha) of Eastern and Central Palaearctic Region

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### Abstract

Five new generic and 7 species synonyms and 3 new combinations are proposed for the tribe Delphacini. *Atropidius* Emeljanov 1982, is placed in synonymy under *Glabrinotum* Ding, 2006, in so far as *Atropidius* Emeljanov is homonym of *Atropidius* Chapui. *Stiropis* Ding, 2006—under *Cormidius* Emeljanov, 1972, *Metroma* Ding, 2006—under *Metropidius* Emeljanov, 1972, *Mengdelphax* Ding, 1994—under *Movesella* Emeljanov, 1982, and *Paramestus* Ding, 2006—under *Pastirosoma* Dlabola, 1967. *Glabrinotum qitaiensis* Ding, 2006 is placed in synonymy under *Glabrinotum lapilla* (Emeljanov, 1982), *Mengdelphax neimengensis* Ding & Zhang, 1994—under *Movesella nuchtica* (Dlabola, 1967), *Calligypona minutissima* Dubovsky, 1966—under *Falcotoya minuscula* (Horváth, 1897), *Calligypona uzbekistanica* Dubovsky, 1966—under *Flastena fumipennis* (Fieber, 1866), *Chloriona adunca* Ding, 1981—under *Paradelphacodes gvosdevi* (Mitjaev, 1980), *Calligypona brunneola* Dubovsky, 1966—under *Paradelphacodes paludosus* (Flor, 1861), and *Calligypona tricolorata* Dlabola, 1961 and *Delphacodes fenestratus* Emeljanov, 1972—under *Pseudodelphacodes flaviceps* (Fieber, 1866). *Elachodelphax xingjiangensis* Chen, 2002 is transferred to *Scottianella* Anufriev, 1980 and *Paramestus nigroclypeus* Ding, 2006 and *Mestus nigrostriatus* Ding & Zhang, 2000—to *Pastirosoma* Dlabola, 1967.

**Key words:** new synonym, new combination, Delphacini, Palaearctic Region

### Introduction

My examination of the original descriptions and drawings of male genitalia of some taxa described in the family Delphacidae from Eastern and Central Palaearctic regions (Dubovsky, 1966; Dlabola, 1961, 1967a, 1967b; Emeljanov, 1972, 1982; Mitjaev, 1980; Ding, 1981, 2006; Ding & Zhang, 1994, 2000; Chen, 2002) helped to recognize several synonyms at the genus and species level as well as new combinations presented below.

### Taxonomy

#### Family Delphacidae Leach, 1815

#### Subfamily Delphacinae Leach, 1815

#### Tribe Delphacini Leach, 1815

#### Genus *Glabrinotum* Ding, 2006

*Atropidius* Emeljanov, 1982: 96. Type species: *Gravestiniella lapilla* Emeljanov, 1982, **syn. nov.** nom. praeocc. *Atropidius* Chapui, 1874 (Chrysomelidae).

**Note.** *Glabrinotum* Ding, 2006 placed in synonymy with *Atropidius* Emeljanov, 1982 according to the synonymy of the type species of these genera mentioned below.

The genus *Atropidius* Emeljanov is a preoccupied name by *Atropidius* Chapuis in Lacordaire, 1874. *Atropidius* Chapuis 1874. So, *Glabrinotum* Ding, 2006 should be a valid name for the genus.

### ***Glabrinotum lapilla* (Emeljanov, 1982), comb.n.**

*Gravesteiniella* (*Atropidius* subgen.nov.) *lapilla* Emeljanov, 1982: 95–96.  
= *Glabrinotum qitaiensis* Ding, 2006: 383–384,710. **syn. nov.**

**Note.** Both species have identical body shape, coloration, and male genitalia structure. Also the type locality of *Glabrinotum qitaiensis* is in the frame of known areal of *Atropidius lapilla* Emeljanov and both occur on *Achnatherum splendens* (Trin.) Nevski.

### **Genus *Cormidius* Emeljanov, 1972**

*Cormidius* Emeljanov, 1972: 208. Type species: *Metropis nigrifrons* Kusnezov, 1929.  
= *Stiropis* Ding, 2006: 224, 258, 678, 688–689 (type species: *Metropis nigrifrons* Kusnezov, 1929), **syn. nov.**

**Note.** *Stiropis* Ding is a junior objective synonym of *Cormidius* Emeljanov as both taxa have the same type species.

### **Genus *Metropidius* Emeljanov, 1972**

*Metropidius* Emeljanov, 1972: 208. Type species: *Metropis achnatheri* Emeljanov, 1964.  
= *Metroma* Ding, 2006: 224, 260, 689–690 (type species: *Metropis achnatheri* Emeljanov, 1964), **syn. nov.**

**Note.** *Metroma* Ding is junior objective synonym of *Metropidius* Emeljanov as both taxa have the same type species.

### **Genus *Movesella* Emeljanov, 1982**

*Movesella* Emeljanov, 1982: 104. Type species: *Javesella nuchtica* Dlabola, 1967.  
= *Mengdelphax* Ding, 1994: 65 (in Ding & Zhang, 1994) (type species: *Mengdelphax neimengensis* Ding et Zhang, 1994), **syn. nov.**

**Note.** *Mengdelphax* Ding, 1994 is placed in synonymy with *Movesella* Emeljanov, 1982 according to the new synonymy of the type species of these genera mentioned below.

### ***Movesella nuchtica* (Dlabola, 1967)**

*Javesella nuchtica* Dlabola, 1967b: 54–55.  
= *Mengdelphax neimengensis* Ding & Zhang, 1994: 65, **syn. nov.**

**Note.** *Mengdelphax neimengensis* Ding et Zhang is identical to *Movesella nuchtica* (Dlabola) in coloration and male genitalia structure including a peculiar shape of the style and the long processes of the anal tube illustrated by Anufriev and Emeljanov in the Key to Auchenorrhyncha of the Russian Far East (Anufriev & Emeljanov, 1988, 325: 9–15).

### **Genus *Pastirosoma* Dlabola, 1967**

*Pastirosoma* Dlabola, 1967a: 8. Type species: *Calligypona odessana* Dlabola, 1958 (= *Eurysa clypeata* Horváth, 1897).

= *Paramestus* Ding, 2006: 230, 398, 685, 711–712 (type species: *Mestus nigrostriatus* Ding et Zhang, 2000), **syn. nov.**

**Note.** The characters of the type species of the genus *Paramestus* Ding, *Mestus nigrostriatus* Ding et Zhang, completely fit the diagnostic characters of the genus *Pastiroma* Dlabola in particular the proportions of the male anal tube, including its processes, the presence of a process on the genital phragma of the pygofer, the shape of the styles and penis with characteristic arrangement of teeth. The *Pastiroma* species also characterized by contrasting colour of the metope and clypeus (pale metope and dark clypeus), which are the characters of *Mestus nigrostriatus* Ding et Zhang, 2000 as well.

***Pastiroma nigroclypeus* (Ding & Wang, 1996), comb. nov.**

*Metopis nigroclypeus* Ding & Wang in Wang & Ding 1996:36

*Paramestus nigroclypeus* Ding, 2006: 400–402.

***Pastiroma nigrostriata* (Ding et Zhang, 2000), comb. nov.**

*Mestus nigrostriatus* Ding & Zhang, 2000: 61.

**Genus *Falcotoya* Fennah, 1969**

***Falcotoya minuscula* (Horváth, 1897)**

*Delphax minuscula* Horváth, 1897: 622.

= *Calligypona minutissima* Dubovsky, 1966: 68, 71, **syn. nov.**

**Note.** Slight differences in a degree of twist of the penis shaft does not qualify as enough evidence for treating *Falcotoya minutissima* Dubovsky as a separate species.

**Genus *Flastena* Nast, 1975**

***Flastena fumipennis* (Fieber, 1866)**

*Delphax fumipennis* Fieber, 1866: 527.

= *Calligypona uzbekistanica* Dubovsky, 1966: 72, **syn. nov.**

**Note.** The male genitalia structure of *Calligypona uzbekistanica* illustrated by Dubovsky (1966, 14:34-36) in the original description of the species differs from this of *Flastena fumipennis* (Fieber) published by Nast (1975) and Holzinger *et al.* (2003) only in minute details which could be treated as an interspecific variability.

**Genus *Paradelphacodes* Wagner, 1963**

***Paradelphacodes gvosdevi* (Mitjaev, 1980)**

*Chloriona gvosdevi* Mitjaev, 1980: 36.

= *Chloriona adunca* Ding, 1981: 56, **syn. nov.**

= *Paradelphacodes insolitus* Dmitriev, 2000: 281, **syn. fide** Dmitriev & McKamey, 2013: 111.

*Paradelphacodes gvosdevi*: Mitjaev, 2002: 104.

= *Paradelphacodes gvosdevi* Mitjaev, 1980, = *P. insolitus* Dmitriev, 2000: Dmitriev & McKamey, 2013.

**Note.** A peculiar species similar to the members of the genus *Chloriona* Fieber according to some characters (light

green or light yellow general coloration, long widely places styles, dorsal margin of pygofer bridge (phragma) with a process) originally was described in this genus (Mitjaev, 1980). Later Dmitriev (2000) described this species as *Paradelphacodes insolitus*, however, recently he corrected himself and placed *P. insolitus* in synonymy to *Ch. gvosdevi* with the arguments confirmed generic position of *Ch. gvosdevi* as *Paradelphacodes* (Dmitriev & McKamey, 2013).

### **Genus *Pseudodelphacodes* Wagner, 1963**

#### ***Pseudodelphacodes flaviceps* (Fieber, 1866)**

*Delphax flaviceps* Fieber, 1866: 527.

= *Calligypona tricolorata* Dlabola, 1961: 274–275, **syn. nov.**

= *Delphacodes fenestratus* Emeljanov, 1972: 212–213, **syn. nov.**

= *Delphacodes (Proscopus) fenestratus*: Emeljanov, 1982: 74.

**Note.** Holzinger *et al.* (2003) placed *Proscopus* Emeljanov, 1982 in synonymy with *Pseudodelphacodes* Wagner, 1963, but retained *P. tricoloratus* and *P. fenestratus* as valid names. According to my study of the materials from Mongolia, Middle Asia, and Germany, deposited in the Zoological Institute of the Russian Academy of Sciences (Saint Petersburg, Russia), both names belong to a single species with slight geographical and individual variability.

### **Genus *Scottianella* Anufriev, 1980**

#### ***Scottianella xingjiangensis* (Chen, 2002), **comb. nov.****

= *Elachodelphax xingjiangensis* Chen, 2002: 34–36.

**Note.** Perhaps *Elachodelphax xingjiangensis* Chen is a junior synonym of *Scottianella dalei* (Scott, 1870), however, I do not have enough material from the type localities of the species and from the territories between the type localities to make the final decision.

### **Genus *Megamelus* Fieber, 1866**

*Megamelus notula* (Germar, 1830)

**Note.** Apparently, Ding (2006, 209, p. 393) illustrated *Megamelus flavus* Crawford, 1914 under the the name *Megamelus notula* (Germar). The illustrations are not clear enough but *M. flavus* is replacing *M. notula* in Eastern Palaearctic Region (Anufriev & Emeljanov, 1988).

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### **References**

Anufriev, G.A. & Emeljanov, A.F. (1988) Suborder Cicadinea (Auchenorrhyncha). *In*: Ler, P.A. (Ed.), *Opredelitel' nasekomykh*

- Dal'nego Vostoka SSSR [Keys to the insects of the Far East of the USSR]. Vol. 2. Nauka, Leningrad, pp. 12–495. [in Russian]*
- Boheman, K.H. (1845) Nya Svenska Homoptera. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar. Stockholm, 1845, 154–165.*
- Chapuis, M.F. (1874) Famille des Phytophages. In: *Histoire Naturelle des Insectes. Genera des Coléoptères. Tome 10.* Librairie encyclopédique de Roret, Paris, pp. 1–455. [Par M.M. Th. Lacordaire et F. Chapuis]
- Chen, X.-S. (2002) Description of a new species of the genus *Elachodelphax* from China (Homoptera: Delphacidae). *Acta Entomologica Sinica*, 45 (Supplement), 34–26.
- Ding, J.-H. (1981) Notes of the genus *Chloriona* Fieber 1866 of Delphacidae (Homoptera: Delphacidae). *Journal of Nanjing Agricultural College*, 2, 55–58.
- Ding, J.-H. (2006) Homoptera Delphacidae. Fauna Sinica. *Insecta*, 45, I–XX + 1–770, pls. 1–20. [in Chinese]
- Ding, J.-H. & Zhang, J.-L. (1994) *Delphacidae. Fauna of Northeast China.* Chinese Agricultural Sciencetech Press, Beijing, 147 pp.
- Ding, J.-H. & Zhang, J.-L. (2000) A new species of Delphacidae (Homoptera: Fulgoroidea) from Hebei Province. In: Zhang, Y.-L. (Ed.), *Systematic and Faunistic Research on Chinese Insects.* China Agricultural Press, Beijing, pp. 61–63.
- Wang, J.C. & Ding, J.H. (1996) *Delphacidae fauna of Gansu province, China (Homoptera. Fulgoroidea).* Gansu Science and Technology Press, Lanzhou, 167 pp. [China]
- Dlabola, J. (1961) Die Zikaden von Zentralasien, Dagestan und Transkaukasien (Homopt. Auchenorrhyncha). *Acta Entomologica Musei Nationalis Pragae*, 34, 241–358.
- Dlabola, J. (1963) Typen und weitere wenig bekannte Arten aus der Sammlung H. Haupt mit Beschreibungen einiger Zikadenarten aus Sibirien (Homoptera). *Acta Entomologica Musei Nationalis Pragae*, 35, 313–331.
- Dlabola, J. (1967a) Ergebnisse der 1. Mongolisch-tschechoslovakischen entomologisch-botanischen Expedition in der Mongolei, *Acta Faunistica Entomologica Musei Nationalis Pragae*, 12 (115), 1–34. [проверить]
- Dlabola, J. (1967b) Ergebnisse der 1. Mongolisch-tschechoslovakischen entomologisch-botanischen Expedition in der Mongolei. *Acta Faunistica Entomologica Musei Nationalis Pragae*, 12 (118), 51–102. [Проверить]
- Dmitriev, D.A. (2000) A new species of *Paradelphacodes* from centre of European Russia (Homoptera: Delphacidae). *Zoosystematica Rossica*, 8 (2), 281–282.
- Dmitriev, D.A. & McKamey, S.H. (2013) Nomenclatural changes in Cicadellidae: Typhlocybinae and Delphacidae (Homoptera). *Zookeys*, 277, 109–113.  
<https://doi.org/10.3897/zookeys.277.4273>
- Dubovsky, G.K. (1966) *Cicadina (Auchenorrhyncha) of Fergana valley.* «FAN» Publishers House, Tashkent, 256 pp. [in Russian]
- Emeljanov, A.F. (1972) New leaf-hoppers from the Mongolian People's Republic (Homoptera, Auchenorrhyncha). *Nasekomye Mongolii*, 1, 199–260. [in Russian]
- Emeljanov, A.F. (1982) Fulgoroidea (Homoptera) collected in the Mongolian People's Republic by the entomofaunistic group of the Soviet-Mongolian complex biological expedition in 1970–1975. *Nasekomye Mongolii*, 8, 69–122. [in Russian]
- Fieber, F.X. (1866) Grundzüge der generischen Theilung der Delphacini. *Verhandlungen der Kaiserlich-Königlichen Zoologisch-botanischen Gesellschaft in Wien*, 16, 517–534.
- Flor, G. (1861) Die Rhynchoten Livlands in systematischer Folge beschrieben. Zweiter Theil: Rhynchota gulaerostria Zett. (Homoptera Auct.). *Cicadina und Psylloidea. Archiv für die Naturkunde Liv-, Ehst- und Kurlands. Dorpat*, 4, 1–157.
- Germar, E.F. (1821) Bemerkungen über einige Gattungen der Cicadarien. *Magazin der Entomologie*, 4, 1–106.
- Germar, E.F. (1830) Species Cicadarium enumeratae et sub genera distributae. *Thon's Entomologisches Archiv*, 2 (2), 1–57.
- Holzinger, W.E., Kammerlander, I. & Nickel, H. (2003) Fulgoromorpha, Cicadomorpha excl. Cicadellidae. *The Auchenorrhyncha of Central Europe*, 1, 1–673.
- Horváth, G. (1897) Homoptera nova ex Hungaria. *Termeszetráji Füzetek*, 20, 620–643.
- Kusnezov, V. (1929) Beitrag zur Kenntnis der transbaikalischen Homopterenfauna. *Wiener Entomologische Zeitung*, 46 (3–4), 157–185.
- Mitjaev, I.D. (1980) New species of *Cicadina* (Homoptera, Auchenorrhyncha) from Northern Kazakhstan. *Izvestia Akademii Nauk Kazakhstanskoi SSR, Series Biology*, 1, 36–39. [in Russian]
- Mitjaev, I.D. (2002) Faune, ecology and zoogeography of leafhoppers (Homoptera, Cicadinea) of Kazakhstan. *Tethys Entomological Research*, 5, 1–168. [in Russian]
- Nast, J. (1957) On some Mediterranean Delphacidae (Homoptera, Auchenorrhyncha) described by S. Matsumura. *Annales Zoologici, Warszawa*, 33, 1–15.
- Scott, J. (1870) On certain British Hemiptera-Homoptera. Descriptions of new species of the genus *Liburnia* Stål. *Entomologist's Monthly Magazine*, 7, 67–72.