

New Synonyms, Combinations, and Faunistic Records of Western Palaearctic Planthoppers of the Family Issidae (Homoptera, Fulgoroidea)

V. M. Gnezdilov

Zoological Institute, Russian Academy of Sciences, St. Petersburg, 199034 Russia

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Abstract—Within the frame of the study of the Western Palaearctic Issidae, two generic and four specific synonyms are established: *Logvinenkoana* Gnezdilov, 2002 is placed as a synonym for *Anatolodus* Dlabola, 1982; *Falcidiopsis* Kusnezov, 1930, for *Kervillea* Bergevin, 1918; *Hysteropterum ignavum* Dlabola, 1981, for *Aeluropsis karabachica* Logvinenko, 1975; *Hysteropterum alciranum* Gnezdilov, 2003, for *Hysteropterum alicantium* Dlabola, 1986; *Hysteropterum tangirum* Matsumura, 1910, for *Hysteropterum gadarramense* Melichar, 1906, and *Mycterodus syriacus* Gnezdilov, 2008, for *Mycterodus bicornutus* Dlabola, 1986. Subgenus *Corymbius* Gnezdilov, 2002 is upgraded to genus. 12 new generic combinations are established: *Aeluropsis karabachica* Logvinenko, 1975, *A. midica* Logvinenko, 1975, *Hysteropterum pictifrons* Melichar, 1906 and *H. transcausicum* Melichar, 1914 are transferred to the genus *Anatolodus* Dlabola, 1982; *Bubastia carinata* Logvinenko, 1978 and *B. parva* Logvinenko, 1977, to the genus *Inflatodus* Dlabola, 1982; *Quadrastylum tubulatum* Dlabola, 1989, to the genus *Rhissolepus* Emeljanov, 1971; *Hysteropterum laminatum* Horváth, 1911, to the genus *Libanissum* Dlabola, 1980; *Hysteropterum drahamense* Linnavuori, 1965, to the genus *Bergevinium* Gnezdilov, 2003; *Conosimus ochaninei* Puton, 1890, to the genus *Quadriva* Ghauri, 1965; *Hysteropterum gadarramense* Melichar, 1906, to the genus *Tingissus* Gnezdilov, 2003; *Agalmatium corsicum* Dlabola, 1982, to the genus *Fieberium* Dlabola, 1980. New faunistic records are given for 18 species.

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INTRODUCTION

In the course of revision of the family Issidae of Western Palaearctic type species of some genera and type specimens of a number of species were examined. This allowed establishment of new synonyms and new combinations mentioned below. Examination of new materials discovered wider than it was known before distribution of some species.

MATERIALS AND METHODS

Morphological terminology used in the paper follows Bourgoin (1993), Emeljanov (1995) and Gnezdilov (2003).

Material examined is deposited in the following collections. ZIN, Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia; UASK, Institute of Zoology, National Academy of Sciences of Ukraine, Kiev; BMNH, the Natural History Museum, London, UK; CKDB, Collection of Dr. K. den Bieman, Ulvenhout, The Netherlands; NHMW, Naturhistorisches Museum Wien, Austria; HNHM, Hungarian Natural

History Museum, Budapest, Hungary; MNHN, Muséum National d'Histoire Naturelle, Paris, France; NMPC, National Museum of Natural History, Prague, Czech Republic; NMWC, National Museum of Wales, Cardiff, UK; ZMAN, Universiteit van Amsterdam, Zoologisch Museum, Amsterdam, The Netherlands; ZMPA, Zoological Institute, Polish Academy of Sciences, Warszawa, Poland.

TAXONOMY

Tribe **ISSINI** Spinola

Subtribe **ISSINA** Spinola

Genus **ISSUS** Fabricius, 1803

Issus pospisili Dlabola, 1958

Material (ZIN). Russia, Karachai-Cherkess Republic: 1 ♂, 1 ♀, Mikoyan Shakhor [Karachaevsk], junction of the Kuban and Teberda Rivers, 19–28.VI.1935, Djakonov leg. Azerbaijan: 1 ♂, Lencoran, A. Starck leg.

The species is recorded for the first time from Karachai-Cherkess Republic in Russia and from Azerbaijan.

Subtribe HYSTEROPTERINA Melichar

Genus *ANATOLIDUS* Dlabola, 1982

Anatolodus Dlabola, 1982 : 126. Type species: *Anatolodus musivus* Dlabola, 1982.

Logvinenkoana Gnezdilov, 2002c : 618 (as subgenus of *Bubastia* Emeljanov), **syn. n.** Type species: *Hysteropterum pictifrons* Melichar, 1906.

Synonymy is established based on the similarity of the type species of the genus *Anatolodus* Dlabola and subgenus *Logvinenkoana* Gnezdilov (genus *Bubastia* Emeljanov). Both species have characters typical of the genus *Anatolodus*: metope wide, with distinct median and sublateral carinae joined at its upper margin; coryphe transverse; fore wings wide, without hypocostal plate, *R* 2 *M* 3 *CuA* 1; hind wings rudimentary; hind tibia with 2 lateral spines; first metatarsomere with 1 or 2 intermediate spines apically; phallobase with pair of subapical processes, with serrate margins; aedeagus with pair of long ventral hooks; female anal tube wide and hind margin of gonocoxa VIII lobe-shaped.

Anatolodus karabachicus (Logvinenko, 1975),
comb. n.

Aeluropsis karabachica Logvinenko, 1975 : 59.

Bubastia karabachisa: Dlabola, 1979 : 276.

Bubastia (*Logvinenkoana*) *karabachica*: Gnezdilov, 2002c : 618.

Hysteropterum ignavum Dlabola, 1981 : 179,
syn. n.

Anatolodus ignavus: Dlabola, 1982 : 128.

Material. Azerbaijan: 3 ♂, 5 ♀ (paratypes of *Aeluropsis karabachica*), Kyurdgadzhi, 25.VII.1970, Logvinenko leg. (ZIN). Turkey: ♂ (holotype of *Hysteropterum ignavum*), SE Anatolia, N of Baskale, 2150 m, 20.VIII.1970, "Loc. no. 103 / Exp. Nat. Mus. Praha" (NMPC). Iran: 2 ♀ (paratypes of *Hysteropterum ignavum*), Maku, 19–20.VI.1970, "Loc. no. 24 / Exp. Nat. Mus. Praha" (NMPC).

Synonymy is based on examination (including male genitalia) of type specimens of *Anatolodus karabachicus* and *A. ignavus*.

Anatolodus midicus (Logvinenko, 1975), comb. n.

Aeluropsis midica Logvinenko, 1975 : 58.

Bubastia midica: Dlabola, 1979 : 276.

Bubastia (*Logvinenkoana*) *midica*: Gnezdilov, 2002c : 618.

Anatolodus pictifrons (Melichar, 1906), comb. n.

Hysteropterum pictifrons Melichar, 1906 : 140.

Bubastia pictifrons: Gnezdilov, 2002a : 213.

Bubastia (*Logvinenkoana*) *pictifrons*: Gnezdilov, 2002c : 618.

Material (MNHN). Georgia: 4 ♂, 14 ♀, "Mccheta, Šengelia leg."

The species was known from Turkey and Armenia (Gnezdilov, 2002a); this is the first record from Georgia.

Anatolodus transcaucasicus (Melichar, 1914),
comb. n.

Hysteropterum transcaucasicum Melichar, 1914 : 135.

Aeluropsis transcaucasica: Emeljanov, 1971 : 626.

Bubastia transcaucasica: Dlabola, 1979 : 274.

Bubastia (*Logvinenkoana*) *transcaucasica*: Gnezdilov, 2002c : 618.

Genus *BERGEVINIUM* Gnezdilov, 2003

Bergevinium drahamense (Linnavuori, 1965),
comb. n.

Hysteropterum drahamense Linnavuori, 1965 : 39.

Material (NMWC). Tunisia: 3 ♀ (paratypes), Air Draham, 16–18.VIII.1962, R. Linnavuori leg.

The species is transferred to the genus *Bergevinium* based on the following characters: metope enlarged above clypeus, with distinct median and weak sublateral carinae joined at its upper margin; coryphe transverse (3 times as wide as long), anterior margin straight, posterior margin concave; fore wings with wide hypocostal plate, *R* 3 *M* 3 *CuA* 1, longitudinal and transverse veins relief; hind wings well developed; hind tibia with 1 lateral spine distally; first metatarsomere with 7 or 8 intermediate spines apically; female anal tube long, narrow; hind margin of female sternum VII deeply concave medially.

Genus *BUBASTIA* Emeljanov, 1975

Bubastia obsoleta (Fieber, 1877)

Material (MNHN). Italy, Calabria: 1 ♂, M. [?]Maufriaau, 27.V.1953, S. Zangheri leg.; 1 ♀, M. Pollino, 15.VI.1954, A. Servadei leg. Montenegro: 1 ♂, 1 ♀, Kotor, 14.VI.1973, 1000–1100 m, M.J. & J.P. Duffels leg. Croatia: 1 ♂, Istra, 2 km N van Kanfanar, 16.VII.1966. Greece: 1 ♂, 1 ♀, Vermion, 21.V.

The species is recorded for the first time from Montenegro and Italy.

Genus *CONOSIMUS* Mulsant et Rey, 1855

Conosimus coelatus Mulsant et Rey, 1855

Material (NMWC). Spain: 2 ♂, 1 ♀, 4 larvae, Balearic Islands, Ibiza I., Portinatx, 6–13.V.1983, J.C. Deeming leg.

The species is recorded for the first time from Ibiza Island. Examination of the material from Ibiza has shown that females of *C. coelatus* have longer coryphe than males.

Genus *CORYMBIUS* Gnezdilov, 2002, stat. n.

Corymbius Gnezdilov, 2002b : 149 (subgenus of *Kervillea* Bergevin, 1918). Type species: *Quadrastylum tekirdagicum* Dlabola, 1982.

The subgenus *Corymbius* is upgraded to the genus as it clearly differs from the members of the genus *Kervillea* s. str. by the short processes of lateral phallobase lobes, presence of ventral aedeagal hooks, and presence of sublateral carinae on metope.

Corymbius tekirdagicus (Dlabola, 1982)

Material (ZIN). Greece: 7 ♂, 1 ♀, Evros District, 15 km N of Alexandroupolis, oak forest with clearings, 14.V.2007, A. Maryńska-Nadachowska & A. Nadachowski leg.

The species was known from Bulgaria and Turkey (Dlabola, 1982); this is the first record from Greece.

Genus *FIEBERIUM* Dlabola, 1980

Fieberium corsicum (Dlabola, 1982), comb. n.

Agalmatium corsicum Dlabola, 1982 : 157.

The species is transferred to the genus *Fieberium* according to the structure of the phallobase, with a pair of elongate subapical processes, and the structure of style, with capitulum bearing a short lateral

tooth. An additional argument for transferring of *Agalmatium corsicum* to the genus *Fieberium* is the presence of one lateral spine on the hind tibia (in members of the genus *Agalmatium*, 2 spines).

Genus *GRANUM* Gnezdilov, 2003

Granum pooti (Dlabola, 1989)

Material. Spain: 1 ♂, Alcolea del Pinar, Guadalajara, 1200 m, 12.VII.1978, M.J. & J.P. Duffels leg. (MNHN); 1 ♂, 1 ♀, Huesca, 12 km SW of Jaca, 1080–1120 m, 30.VII.2004, K. den Bieman leg. (CKDB).

The species was known only by a holotype from Spain (Belver de Cerd) (Dlabola, 1989).

Genus *HYSTEROPTERUM*

Amyot et Serville, 1843

Hysteropterum alicantium Dlabola, 1986

Hysteropterum alicantium Dlabola, 1986 : 193.

Hysteropterum alciranum Gnezdilov, 2003 : 47, **syn. n.**

Material. Spain: 1 ♂ (paratype of *H. alicantium*), Guadalest (Alicante), 25.IX.1983, J.H. Woudstra leg. (MNHN); 1 ♂ (holotype of *H. alciranum*), Alcira (Valencia), Moróder leg. (HNHM).

The synonymy is based on examination of the paratype of *H. alicantium*.

Hysteropterum dolichotum Gnezdilov et Mazzoni, 2004

Material. France: 2 ♂, 2 ♀, Montagnac, 614 m, 4.VI.2003, I. Gjonov leg. (ZIN); 12 ♂, 10 ♀, Vercors, vallée de la Gervanne, Beaufort / Gervanne, 29.VII–2.VIII.2000, T. Bourgoïn leg. (MNHN); 5 ♂, 2 ♀, La Bessée Haute, la batie des Vigneaux, bords de la Durance, 1015 m, 15.VII.2002, T. Bourgoïn leg. (MNHN); 5 ♂, 3 ♀, Valernes-Sisteron, bords de la Sasse, 8.VI.2003, T. Bourgoïn leg. (MNHN); 2 ♂, 4 ♀, Montpellier (MNHN); 1 ♂, Masif Central, vallée rivière Tarn, La Maleme, 7.VII.2004, A. Maryńska-Nadachowska leg. (ZIN); 1 ♂, 1 ♀, Beaumes de Venise, 7.VII.1972, M. Boulard leg. (MNHN).

The species was known from Italy and Spain (Gnezdilov, Mazzoni, 2004b; Maryńska-Nadachowska et al., 2006); this is the first record from France.

Genus *INFLATODUS* Dlabola, 1982

Bubastia carinata Logvinenko and *B. parva* Logvinenko are transferred to the genus *Inflatodus* Dlabola according to the structure of the phallobase, with semicircular, serrate marginally subapical processes, and the structure of style, with a straight hind margin and capitulum on a long neck.

Inflatodus carinatus (Logvinenko, 1978), comb. n.

Bubastia carinata Logvinenko, 1978 : 799.

Bubastia (Logvinenkoana) carinata Gnezdilov et al., 2004 : 219.

Material (UASK). Azerbaijan: ♂ (holotype), Nakhichevan ASSR, 14 km N Dzhulpha, 14.VI.1971, V. N. Logvinenko leg.

Inflatodus parvus (Logvinenko, 1977), comb. n.

Bubastia parva Logvinenko, 1977 : 64.

Bubastia (Logvinenkoana) parva Gnezdilov et al., 2004 : 219.

Material (UASK). Azerbaijan: 2 ♂, 1 larva (all the specimens on one pin, with the label "holotype *Bubastia parva* Logvinenko"), Azerbaijan SSR, Zuvand, on *Astragalus* bush, 15.VII.1970, V. N. Logvinenko leg.

Genus *KERVILLEA* Bergevin, 1918

Kervillea Bergevin, 1918 : 104. Type species: *Kervillea ancyrana* Bergevin, 1918.

Falciopsis Kusnezov, 1930 : 98, **syn. n.** Type species: *Falciopsis kirgisorum* Kusnezov, 1930.

Previously I have treated *Falciopsis* Kusnezov as a subgenus of the genus *Kervillea* Bergevin (Gnezdilov, 2003). However after reexamination of the type species of both genera it became clear that both species are characterized by the presence of long, narrowing apically processes of the lateral phallobase lobes, which is an autapomorphy of the genus *Kervillea*.

Kervillea kirgisorum (Kusnezov, 1930)

Material. Russia: 1 ♂, Belgorod Province, Rovenskiy District, near Nagolnoe Vill., slope of Southern exposition on the right bank of the Sarma River, 22.V.2001, A. Prisky leg. (ZIN).

The species is recorded for the first time from Belgorod Province. Until now, the species was known in Russia only from the Kalmykia Republic (Vilbaste, 1961).

Genus *LATILICA* Emeljanov, 1971

Latilica melichari Gnezdilov, 2004

Material (ZMAN). Turkey: 1 ♂, Didyma, 17.IV.1974, W.H. Gravesteyn & S.J. van Ooststroom leg.

The species was described from Lebanon (Gnezdilov, 2004); this is the first record from Turkey.

Latilica oertzeni (Matsumura, 1910)

Material (HNHM). Greece: 1 ♀, Crete I., Canea, 06.VIII, Biró leg.

This is the first record of the species from Crete Island.

Latilica tunetana (Matsumura, 1910)

Material. Spain, Balearic Islands: 1 ♂, Mallorca I., Gala San Vicente, 4.X.1972 (ZMAN); 1 ♀, Formentera I., 9.X.1969, W.H. Gravesteyn leg. (ZMAN). Italy: 1 ♂, 1 ♀, Sardegna I., Sassari, Costa Smeralda, 16.IX.1971, W.H. Gravesteyn leg. (ZMAN). Greece, Crete I.: 4 ♂, 4 ♀, Nom. Lasithi, Gra Ligia, 3.VI.1972, M.C. & G. Kruseman leg. (ZMAN); 1 ♂, Kolimbari, 23 km W of Chania, near Moni Gonias, 17.V.1982, J.P. Duffels leg. (ZMAN). Lybia: 2 ♂, 2 ♀, Al Bayda, 22.V.2005, P. Weill leg. (ZIN).

The species is recorded for the first time from Greece. Apparently the record of *Latilica maculipes* Melichar from Balearic Islands (Dlabola, 1975) belongs to *L. tunetana*.

Genus *LIBANISSUM* Dlabola, 1980

Libanissum laminatum (Horváth, 1911), comb. n.

Hysteropterum laminatum Horváth, 1911 : 609.

Material (HNHM). Syria: ♀ (holotype), Ain-Fidjé, H. Gadeau de Kerville.

The species is transferred to the genus *Libanissum* preliminary on the basis of examination of external characters of the holotype. Examination of male genitalia is necessary to confirm this decision.

Genus *MYCTERODUS* Spinola, 1839

Mycterodus bicornutus Dlabola, 1986

Mycterodus bicornutus Dlabola, 1986 : 182.

Mycterodus syriacus Gnezdilov, 2008 : 577, **syn. n.**

Material. Turkey: ♂ (paratype of *M. bicornutus*), Yayladağ, 1.VI.1985, "Pranus" (MNHN). Syria: ♂

(holotype of *M. syriacus*), Frunluq forest, N of Lattaquieh, near Turkish border, 29.V.2004, H. Abdul-Nour leg. (ZIN).

The synonymy is based on examination of the paratype of *M. bicornutus*.

Genus *PALAEOLITHIUM* Gnezdilov, 2003

Palaeolithium distinguendum (Kirschbaum, 1868)

Material. Tunisia: 27 ♂, 20 ♀, Kairouan Vill., Si Saad, 27–30.V.1995, A. Podlussány leg. (HNHM, ZIN); 1 ♂, Nabeul Vill., Menzel Bouzelfa, 29.V.1995, A. Podlussány leg. (HNHM).

The species is recorded for the first time from Tunisia.

Genus *QUADRIVA* Ghauri, 1965

Quadriva ochaninei (Puton, 1890), comb. n.

Conosimus ochaninei Puton, 1890 : 232.

Material (MNHN). Kirghizia / Tajikistan: Syn-types: 1 ♂, “Alai”; 1 ♀, “*Conosimus ochaninei*, Put. 90”.

The species is transferred to the genus *Quadriva* Ghauri on the basis of external characters: elongate metope, with distinct median carina, sublateral carinae indistinct; coryphe with median carina and rightly angulate anterior margin; fore wings without hypocostal plate, *R* 2, *M* 3, *CuA* 1; hind wings rudimentary; hind tibia with 1 lateral spine.

Genus *RHISSOLEPUS* Emeljanov, 1971

Rhissolepus tubulatus (Dlabola, 1989), comb. n.

Quadrastylum tubulatum Dlabola, 1989 : 26.

The species is transferred to the genus *Rhissolepus* Emeljanov according to the structure of the phallobase, with wide lateral lobes (Dlabola, 1989 : figs. 1, 3).

Genus *SCORLUPELLA* Emeljanov, 1971

Scorlupella discolor (Germar, 1821)

Material. Romania: 2 ♂, 1 ♀, Valul Traian, 19.VI.1959, R. Bankowska leg. (ZMPA); 3 ♂, 1 ♀, Comana Vlasca, A. C. Montandon (MNHN). Bulgaria: 1 ♂, Sredna Gora, Stara Zagora, 2.VI.1959, R. Bielawski leg. (BMNH); 2 ♂, Nessebar (NMWC).

The species was described from Crimea (Germar, 1821). These are the first confirmed data on its distribution in Romania and Bulgaria.

Scorlupella montana (Becker, 1865)

Material (ZIN). Russia: 9 ♀, environs of Orenburg, 1–14.VI.1924, A. Ivanov leg.; 3 ♀, Rostov Province, Salskii District, near Gigant Vill., 3–5.VI.2008, on *Cannabis ruderalis*, A.G. Koval, A.A. Saprykin leg. Azerbaijan: 2 ♀, Minchegaur on Kura River, 15.V.1948, Bogachev leg.; 9 ♀, North of Evlakh, Sarydzha steppe, 25.V.1948, Bogachev leg.; 1 ♀, Nakhichevan ASSR, Germachatakh, 27–30.VI.1937, Ryabov leg. Turkey: 2 ♀, Erzurum, University campus, 7.VI.1997, B.A. Korotyaev leg.; 2 ♀, 50 km North of Erzurum, Tortum, 9.VI.1997, B.A. Korotyaev leg. Turkmenia: 6 ♀, Bolshie Balkhany, Kosha-goy, 1800 m, 22.VI.1934, V. Popov leg.

The species is recorded for the first time from Rostov Province in Russia.

Genus *TSHURTSHURNELLA* Kusnezov, 1927

Tshurtshurnella eugeniae

Kusnezov, 1926

Material (ZIN). Russia: 1 ♂, 1 ♀, Belgorod Province, Rovensky District, right bank of the Aydar River, Kalyuzhny Yar, chalky slopes, 18.VIII.2001, A. Prisky leg.

The species was recorded for the first time from Russia without the label data (Musina, 2002).

Subtribe AGALMATIINA Gnezdilov

Genus *AGALMATIUM* Emeljanov, 1971

Agalmatium bilobum (Fieber, 1877)

Material (HNHM). Cyprus: 2 ♂, Limassol Prov., Trodos Mts., 1700 m, 24.V.2003, A. Podlussány leg.

The first record from Cyprus.

Genus *CLYBECCUS* Gnezdilov, 2003

Clybeccus declivus

(Dlabola, 1986)

Material. Italy: 1 ♂, 1 ♀, [Sicily], Palermo, Matusmura (HNHM); 1 ♀, Egadi [Aegadian Islands] Favignana I., VI.1968, Osella leg. (MNHN).

The first record from Sicily and the neighboring islands.

Genus *IBERANUM* Gnezdilov, 2003

Iberanum nuragicum Gnezdilov et Mazzoni, 2004

Material (MNHN). France: 4 ♂, 5 ♀, Corse, "Puton Coll."

The species was described from Sardinia (Gnezdilov, Mazzoni, 2004a); recorded for the first time from Corsica.

Genus *TINGISSUS* Gnezdilov, 2003

Tingissus gadarramense (Melichar, 1906), comb. n.

Hysteropterum gadarramense Melichar, 1906 : 126.

Hysteropterum tangirum Matsumura, 1910 : 20, **syn. n.**

Material (NHMW). Spain: 1 ♂ (syntype of *H. gadarramense*), Guadarrama, 6.91, Handl., "guadarram. det. Melichar".

The synonymy is based on comparison of syntype of *H. gadarramense* with authentically determined specimens of *H. tangirum* (lectotype and paralectotype of *H. tangirum* were examined previously (Gnezdilov, 2003)).

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