

## New data on taxonomy and distribution of some Fulgoroidea (Homoptera, Cicadina)

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A new subgenus of the issid genus *Bubastia* Emeljanov, 1975 is erected – *Capititides* subgen. n. (type species: *Bubastia jatagana* Dlabola, 1980) and subgeneric arrangement of the species is proposed. *Hysterodus* Dlabola, 1980 is placed in synonymy with *Quadri-riva* Ghauri, 1965 and *Parahiracia* Ōuchi, 1940 with *Fortunia* Distant, 1909 (Issidae). The following species names (Issidae) are placed in synonymy: *Issus quadriguttatus* Walker, 1851 with *I. coleoptratus* (Fabricius, 1781), *Issus furtivus* Walker, 1857 with *I. praecedens* Walker, 1857, *Bubastia libanotica* Dlabola, 1987 with *B. ephialtes* (Linnavuori, 1971), *B. quadracuta* Dlabola, 1980 with *B. suturalis* (Fieber, 1877), and *Tshurishurnella zebrina* Dlabola, 1987 with *T. trifasciata* (Linnavuori, 1965). *Hysteropterum maroccanum* Lethierry, 1877 is transferred to the genus *Bergevinium* Gnezdilov, 2003, *Mycterodanus tunicatus* Logvinenko, 1974 and *M. allotrius* Lukjanova, 1991 to the genus *Quadri-riva* Ghauri, 1965, *Kervillea insulana* (Dlabola, 1982) to the genus *Rhissolepus* Emeljanov, 1971, *Prosonoma viridis* Lallemand, 1942 to the genus *Fortunia* Distant, 1909, *Colpoptera memnonia* Fennah, 1955 to the genus *Neocolpoptera* Dozier, 1931 (Issidae), and *Hysteropterum truncatellum* Walker, 1851 to the genus *Bilbilicallia* Jacobi, 1928 (Nogodinidae). The genera *Fortunia* Distant, 1909, *Scantinius* Stål, 1866, *Pterygoma* Melichar, 1903, *Prosonoma* Melichar, 1906, and *Bardunia* Stål, 1863 are transferred to the tribe Parahiraciini Cheng & Yang, 1991 (Issidae). The genera *Eupilis* Walker, 1857, *Tempa* Stål, 1866, *Gabaloea* Walker, 1870, *Cheiloceps* Uhler, 1895, and *Ugoa* Fennah, 1945 are transferred to the tribe Colpopterini Gnezdilov, 2003 (Issidae). New data on distribution of some species of the families Issidae, Caliscelidae, and Tropiduchidae are provided.

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During examination of the material including some type specimens of the families Issidae, Caliscelidae, Tropiduchidae, and Nogodinidae deposited in several European and American museums, new data on the distribution of many species were recognized and new taxonomic combinations were proposed. The material examined is deposited in the following collections: Collection of S. Drosopoulos (Athens, Greece) (CD), National Museums & Galleries of Wales (Cardiff, UK) (NMGW), The Natural History Museum (London, UK) (BMNH), Oxford University Museum (Oxford, UK) (OXUM), National Museum of Natural History (Praha, Czech Republic) (NMPC), Universiteit van Amsterdam, Zoologisch Museum (Amsterdam, The Netherlands) (ZMAN), Wageningen University (Wageningen, The Netherlands) (WU), Institut Royal des Sciences Naturelles de Belgique (Bruxelles, Belgium) (ISNB), Muséum National d'Histoire Naturelle (Paris, France) (MNHN), Smithsonian Institution, National Museum of Natural History (Washington, USA) (USNM), and Zoological Institute, Russian Academy of Sciences (St.Petersburg, Russia) (ZIN).

Family **ISSIDAE** Spinola

Tribe **Issini**

Subtribe **Issina**

**Issus coleoptratus** (Fabricius, 1781)

*Cercopis coleoptrata* Fabricius, 1781: 330.

*Issus quadriguttatus* Walker, 1851: 366, syn. n.

Type specimen (female; BMNH) of *Issus quadriguttatus* was examined.

**Issus abdunouri** Dlabola, 1987. *Material* (ZIN). **Lebanon**: 3 ♂, 1 ♀, Zebdine (Jbeil), on *Quercus infectoria*, 19.VIII.1994; 1 ♂, Ehden (forêt), 1500 m, on *Q. cerris pseudocerris*, 27.VIII.1994; 1 ♂, same locality, on *Q. infectoria*; 5 ♂, 1 ♀, same locality, 28.XII.2001; 1 ♀, Sahel Jbeil, 14.VII.1984; 1 ♀, Qartaba (Jbeil), 1200 m, on *Q. calliprinos*, VIII.1999, all leg. H. Abdul-Nour. **Israel**,

*Gallilee*: 1 ♂, 1 ♀, Hurfaish, 24.V.1966, Gusev & V.A. Trjapitzin; 2 ♀, Har Meron, 7-11 km WNW of Zefat, 12.V.1994; 1 ♀, Nahal Keziv, Avdon environments; 7 ♂, 3 ♀, Hermon Mts., 7 km E Qiryat Shemona, 2-3.V.1994; 1 ♂, Hermon Mts., 30 km ENE Qiryat Shemona, Mezudat Nimrod, 10.V.1994; 4 ♂, 1 ♀, same locality, 27.VII.1996, all leg. M.G. Volkovich & M.Yu. Dolgovskaya; 2 ♂, 3 ♀, Nahal Keziv, 20.V.1999; 2 ♂, 1 ♀, Meron Mt., 1300 m, 26.V.1999; 1 ♂, 1 ♀, Hermon Mt., 2100 m, 28.V.1999, all leg. I.K. Lopatin.

**Issus lauri** Ahrens, 1814. *Material*. **Greece**: *Peloponnessus*, *Achaia* *Prov.*: 8 ♂, 4 ♀, Athens-Patras highway road, next to the 158 km, 15.V.1985, S. Drosopoulos (CD); 1 ♂, Panachaikon Mt., 1000 m, 16.VIII.1974, F. Willemsse (CD); 1 ♂, 3 ♀, near Demestika, 16.V.1990, R. Linnavuori (NMGW); *Kerkyra (Corfu) I.*: 2 ♀, Paleokastritsa, 13-14.V.1981, P.S. Nymar (NMGW); 1 ♀, Nisakion, 18.VIII.1976, F. Willemsse & J. Tilmans (CD); *Ioannina* *Prov.*: 1 ♂, Voutsaras, 24.VI.1984; *Etolokarnania* *Prov.*: 2 ♂, 1 ♀, Evinos river, 22.VI.1986; 3 ♂, Mytikas-Astakos, 23.VI.1986; *Kefallinia (Cephalonia) I.*: 9 ♂, 8 ♀, several localities, 22-24.VI.1984, all leg. S. Drosopoulos (CD).

"*Issus*" sensu lato

**Issus praecedens** Walker, 1857

*Issus praecedens* Walker, 1857: 152.

*Issus furtivus* Walker, 1857: 153, *syn. n.*

Type specimens (female of *Issus praecedens* and male of *Issus furtivus*; BMNH) were examined. It will need further investigation for the clear identification of the generic position of this species.

Subtribe **Hysteropterina** Melichar

Genus **Quadriva** Ghauri, 1965

*Quadriva* Ghauri, 1965: 680. Type species: *Quadriva artemisiae* Ghauri, 1965: 681.

*Hysteroodus* Dlabola, 1980: 192. Type species: *Hysteroodus sabzevaranus* Dlabola, 1980: 193, *syn. n.*

The genus includes 12 species distributed in Pakistan, Iran, Tadzhikistan, and Spain. They are listed below.

*Quadriva artemisiae* Ghauri, 1965. Type specimen (male) was examined.

*Quadriva aghilica* (Dlabola, 1982), *comb. n.* for *Hysteroodus aghilicus* Dlabola, 1982: 125.

*Quadriva aurita* (Dlabola, 1982), *comb. n.* for *Hysteroodus auritus* Dlabola, 1982: 162.

*Quadriva allotria* (Lukjanova, 1991), *comb. n.* for *Mycterodus allotrius* Lukjanova, 1991: 147.

*Quadriva bloetei* (Dlabola, 1982), *comb. n.* for *Hysteroodus bloetei* Dlabola, 1982: 164.

*Quadriva dehbakrina* (Dlabola, 1980), *comb. n.* for *Hysteroodus dehbakrinus* Dlabola, 1980: 196.

*Quadriva lassa* (Dlabola, 1981), *comb. n.* for *Hysteropterum lassum* Dlabola, 1981: 178; *Hysteroodus lassus*: Dlabola, 1982: 125.

*Quadriva proxima* (Dlabola, 1980), *comb. n.* for *Hysteroodus proximus* Dlabola, 1980: 198.

*Quadriva sabzevarana* (Dlabola, 1980), *comb. n.* for *Hysteroodus sabzevaranus* Dlabola, 1980: 193. Holotype (male; NMPC) was examined.

*Quadriva taftanica* (Dlabola, 1980), *comb. n.* for *Hysteroodus taftanicus* Dlabola, 1980: 197.

*Quadriva tangesarhena* (Dlabola, 1980), *comb. n.* for *Hysteroodus tangesarhenus* Dlabola, 1980: 193.

*Quadriva tunicata* (Logvinenko, 1974), *comb. n.* for *Mycterodus tunicatus* Logvinenko, 1974: 842.

**Tshurtshurnella mesopotamica** Dlabola, 1979. *Material* (NMGW). **Iraq**: 2 ♂, Irbil, Kuysanjaq, 12.VI.1980; 1 ♂, Irbil, near Salahuddin, 13-14.VI.1980; 1 ♂, Sulaymaniyah, near Dukan, 12.VI.1980, all leg. R. Linnavuori.

**Tshurtshurnella pythia** Dlabola, 1979. *Material*. **Greece**, *Fokis* *Prov.*: 1 ♂, Elaion, 22.VII.1983, K. den Bieman (CD); 1 ♂, above Karoutes, 1900 m, 17.VII.1978; 2 ♂, 6 ♀, Skaloula vill., 12-20.VII.1978, all leg. R.H. Cobben (WU); 1 ♂, 1 ♀, same locality, 8.VIII.1973, S. Drosopoulos (WU); 2 ♂, 5 ♀, same locality, 15-16.VIII.1983; 1 ♂, 2 ♀, same locality, 7.VIII.1986, all leg. R.H. Cobben & P. de Vrijer (WU); 13 ♂, 10 ♀, 2 larvae, same locality, 15.VIII.1977, 12-18.VII.1978, 16.IX.1978, 9.IX.1979, 10.VII.1996, all leg. S. Drosopoulos (CD); 5 ♂, 15 ♀, same locality, ~700 m, 21.VII.2003; 6 ♂, 3 ♀, 6 km E of Monastery of Varnakova, above Evpalion, 20.VII.2003, all leg. V.M. Gnezdilov (ZIN).

**Tshurtshurnella trifasciata** (Linnavuori, 1965)

*Hysteropterum trifasciatum* Linnavuori, 1965: 67, figs 22 a-d.

*Tshurtshurnella zebrina* Dlabola, 1987: 304, figs 44-49, *syn. n.*

*Material* (NMGW). **NW Syria**: 1 ♂, 1 ♀, Kassab, Frunluq forest, 600 m, 24.IX.1998, M.R. Wilson.

**Tshurtshurnella zelleri** (Kirschbaum, 1868). *Material*. **Greece**: *Ioannina* *Prov.*: 14 ♂, 6 ♀, surrounding Arishti, ~650 m, 13.VIII.1986, R.H. Cobben & P. de Vrijer (WU); 3 ♂, 7 ♀, same date and locality, S. Drosopoulos (CD); 1 ♂, 1 ♀, Vicos Gorge, 13.VIII.1986, S. Drosopoulos (CD); *Etolokarnania* *Prov.*: 5 ♂, Mytikas-Astakos, 23.VI.1986; 3 ♀, Babini, 23.VI.1986, 2 ♂, 1 ♀, Macheras, 16.VI.1992; *Zakynthos I.*: 1 ♂, Agios Leon, 28.VI.1988, all leg. S. Drosopoulos (CD).

**Hysteropterum vasconicum** Gnezdilov, 2003. *Material*. **France**: *Pyrénées Orientales*: 19 ♂, 10 ♀, 4 larvae, Targasson, 1596 m, 2.VI.2003, I.V. Gjonov (ZIN); 3 ♂, 2 ♀, Latour de Carol, 1.VI.1954, W.J. Le Quesne (BMNH); 2 ♂, 3 ♀, Vernet, VI.1891, "D.S." (BMNH); 1 ♂, Vernet les Bains, 700 m, 20.VI.1983, J.P. Duffels (ZMAN); *Aude*: 3 ♂, 3 ♀, Chaos de Targascones, 12.VII.1973, C.H.C. Lyal (BMNH). **Andorra**: 2 ♂, 2 ♀, Pal, 11.VII.1973, C.H.C. Lyal (BMNH); 2 ♂, "tussen Canillo en Soldeu", 1500-1800 m, 30.V.1958 (ZMAN). **Spain**: 1 ♂, Cortas, 1200 m, 10.VII.1984 (ZMAN); 1 ♂, 2 ♀, "Bellver de Cerd.", 1100 m, VII.1984, P. Poot (ZMAN).

**Hysteropterum alciranum** Gnezdilov, 2003. *Material* (ZMAN). **Spain**: *Álava* *Prov.*: 11 ♂, 8 ♀, 15 km W Vittoria, 22.VI.1986; *Cuenca* *Prov.*: 8 ♂, 6 ♀, Serrania de Cuenca, 5 km S of Beteta, 1200 m, 18.IX.2000; *Castellion* *Prov.*: 1 ♀, Puertos de Beseit, Puebla de Benifasar, 20 km E Morella, 1000 m, 22.IX.2000, all leg. J.P. Duffels.

**Granum pooti** (Dlabola, 1989). *Material* (ZMAN). **Spain**, *Lerida* *Prov.*: 4 ♀, 20 km N of Solsona, 1300 m, 18.VI.1983, J.P. Duffels.

**Lethierium reiberi** (Lethiery, 1878). *Material* (NMGW). **Algeria**: 2 ♀, 40 km östl. Bou-Saâde, 1.V.1964, Eckerlein.

**Tautoprosopa transcaspia** Emeljanov, 1978. *Material* (NMGW). **Iran**, *Khurasan*: 1 ♂, Khalcanlod, 30 km E

of Quchan, 7.VI.1994; 12 ♂, 2 ♀, Shourlogh, 35 km SW of Sarakhs, 30.IV.1994; 9 ♂, 6 ♀, Khargh, 70 km SW of Quchan, 8-9.VI.1994; 1 ♂, 1 ♀, 70 km W of Darreh Gaz, 14.VI.1994, all leg. R. Linnavuori.

Genus **Bubastia** Emeljanov, 1975

The genus comprises 26 species, which are mostly distributed in East Mediterranean Region. More than a half of the known species are recorded from Greece, where 10 endemic species are found (Drosopoulos, 1990). It is possible that Greece is the center of origin and speciation of the genus. Recently Gnezdilov (2003a) has published the redescription of the genus, key to the subgenera, and subgeneric arrangement of the European species. The present paper proposes a subgeneric arrangement of all species of the genus based on examination of the largest part of the described species and literature data.

The subgenus *Bubastia* s. str. includes 17 species distributed in East Mediterranean and also in steppe, mountain, and submediterranean regions of Bulgaria, Romania, Ukraine, and Russia: *Bubastia taurica* (Kusnezov, 1926), *B. corniculata* (Puton, 1890), *B. cyrenaica* (Linnavuori, 1965), *B. ephialtes* (Linnavuori, 1971), *B. lindskogi* Dlabola, 1985, *B. ludviki* Dlabola, 1979, *B. lukia* Dlabola, 1984, *B. montandonica* Dlabola, 1984, *B. novalis* (Logvinenko, 1975), *B. saskia* Dlabola, 1984, *B. thaidis* Dlabola, 1987, *B. jankovici* Dlabola, 1980, *B. josifovi* Dlabola, 1980, *B. obsoleta* (Fieber, 1877), *B. thessalica* Dlabola, 1980, *B. olympica* Dlabola, 1982, *B. sakisi* Dlabola, 1984.

The subgenus *Logvinenkoana* Gnezdilov, 2002 includes 6 species, distributed in Caucasus and East Turkey: *Bubastia pictifrons* (Melichar, 1906), *B. carinata* Logvinenko, 1978, *B. karabachica* (Logvinenko, 1975), *B. midica* (Logvinenko, 1975), *B. parva* Logvinenko, 1977, *B. transcaucasica* (Melichar, 1914).

The subgenus *Acrestia* Dlabola, 1980 includes 2 species, recorded only from Greece: *Bubastia suturalis* (Fieber, 1877) and *B. spartica* Dlabola, 1982.

The subgenus *Capititodes* subgen. n. (type species: *Bubastia jatagana* Dlabola, 1980: 224) includes a single species recorded from Turkey and Greece.

*Etymology.* The subgeneric name is derived from the Latin words – capitit (head) and tudes (hammer).

**Key to the subgenera of *Bubastia***

- 1(4). Fore wing with caudodorsal angle approximately right. Aedeagus without ventral hooks.
- 2(3). Coryphe short, transverse. Capitulum of stylus clearly detached, on long neck. Ventral and dorsolateral phallobase lobes with long awl-shaped processes . . . . . **Acrestia**
- 3(2). Coryphe relatively long, approximately square. Capitulum of stylus weakly detached, without neck. Ventral and dorsolateral phallobase lobes without awl-shaped processes . . . . . **Capititodes** subgen. n.
- 4(1). Fore wing with caudodorsal angle obtuse. Aedeagus with a pair of ventral hooks.
- 5(6). Dorsolateral phallobase lobes with a pair of additional serrate lobes. Female anal tube strongly enlarged (dorsal view) . . . . . **Logvinenkoana**
- 6(5). Dorsolateral phallobase lobes without additional serrate lobes. Female anal tube more or less elongate (dorsal view) . . . . . **Bubastia**

**Bubastia (*Bubastia*) ephialtes** (Linnavuori, 1971)

*Hysteropterum ephialtes* Linnavuori, 1971: 71, figs 14 a, b.  
*Hysteropterum suturale*: Lindberg, 1948: 120, figs 30 a-g.  
*Bubastia suturale*: Dlabola, 1979: 274, figs 25-33  
*Bubastia libanotica* Dlabola, 1987: 304, figs 50-54, **syn. n.**

*Material.* **Turkey:** 1 ♂, 2 ♀, Ulukisla, 9.V.1979 (NMGW). **Syria:** 1 ♂, Hermon Mt., 1900-2500 m, 26.VII.1986, R. Linnavuori (NMGW); 2 ♂, 2 ♀, 1 larva, Kassab, Frunluq forest, 600 m, *Quercus* – *Pinus* forest, 24.IX.1998, M.R. Wilson (NMGW); 2 ♀, Stenfe, E of Lattakia, 1200 m, *Quercus pseudocerris* forest, 25.IX.1998, M.R. Wilson (NMGW). **Lebanon:** 8 ♂, 9 ♀, Ouadi Afga (Bhairat Toula-Ehden), 1400 m, on *Cistis salviaefolius*, 29.VIII.1983; 2 ♂, Balaa (Jbeil), 1600 m, 20.VIII.1995; 1 ♀, Aintoura (Matn), 1300 m, “low plants”, 1.VIII.1984; 1 ♀, Zebdine (Jbeil), “glue traps”, 8.VIII.1987; 1 ♂, same locality, 19.VIII.1994; 2 ♂, Jurd Aaqoura (Jbeil), 1800 m, on *Astragalus* sp., 6.IX.1987; 1 ♀, Qartaba (Jbeil), 1200 m, “low plants”, 13.IX.1987, all leg. H. Abdul-Nour (ZIN).

**Bubastia (*Bubastia*) obsoleta** (Fieber, 1877). *Material.* **Greece:** *Peloponnesus:* 1 ♂, near Sarandapiho, 13.VI.1990; 1 ♀, Parnon Mt., Vamvakou, 1.VI.1989; 3 ♂, 1 ♀, Klokos Mt., Pargaki, 13.VI.1990; 1 ♂, 1 ♀, Menalo Mt., above Kardaras, 17.VI.1990, all leg. R. Linnavuori (NMGW); *Lakonia:* 1 ♂, Parnon Mt., Megali Tourla, 12 km SE Agios Petros, 1750 m, 4.VI.1993, J.P. Duffels (ZMAN); *Achaia Prov.:* 2 ♂, 1 ♀, Helmos, 15 km E Kalavrita, 1600-1800 m, 23.IX.1994, J.P. Duffels (ZMAN); 4 ♂, 2 ♀, Bubukas, 21.VI.1986, S. Drosopoulos (CD); *Boeotia Prov.:* 2 ♂, Elikon Mt., 29.VII.2000; 4 ♂, 3 ♀, Parnassos Mt., 28.V.1992; *Arkadia Prov.:* 2 ♀, Charadros, 17.VI.1986; 2 ♂, Parnon Mt., 1500 m, 18.VI.1986; *Karditsa Prov.:* 1 ♂, 5 ♀, Neochori, 13.V.1995; *Pieria Prov.:* 2 ♂, 2 ♀, Olympos Mt., Prionia, 1500 m, 21.V.1981; *Kozani Prov.:* 6 ♂, 3 ♀, Vourinos Mt., 1400-1600 m, 29.VI.1984; *Ioannina Prov.:* 1 ♂, 3 ♀, Vrysochori, Pindos Mt., 26.V.1981; 2 ♂, Aaos River, 27.V.1981; *Arta Prov.:* 1 ♀, Tsumerka Mt., Vulgareli, 10.VI.1984, all leg. S. Drosopoulos (CD).

**Bubastia (*Bubastia*) novalis** (Logvinenko, 1975). *Material* (CD). **Greece:** *Thracia, Komotini Prov.:* 1 ♂, 1 ♀, ~20 km W of Komotini, Polyanthon, 17.VII.1983, K. den Bieman; *Drama Prov.:* 3 ♂, 2 ♀, Rhodopi Mt., ~700 m, 10.VIII.1985; 1 ♂, Rhodopi Mt., Vathyrhema, 11.VIII.1985, all leg. S. Drosopoulos. – *Note.* Specimens from Bulgaria and Greece have strongly protruding upper angles of metope, while specimens from Ukraine have weakly protruding angles.

**Bubastia (*Bubastia*) jankovici** Dlabola, 1980. *Material.* **Greece:** *Magnesia Prov.:* 1 ♀, near Volos, 4.VIII.1981, R. Linnavuori (NMGW); *Pieria Prov.:* 1 ♀, Olympos Mt., 1050 m, 15.VIII.1979; 5 ♂, Poroi, slopes of Olympos Mt., 14.VIII.1980, all leg. S. Drosopoulos (CD).

**Bubastia (*Bubastia*) corniculata** (Puton, 1890). *Material.* **Greece:** *Florina Prov.:* 16 ♂, 15 ♀, Vevi, 24-25.VIII.1983, R.H. Cobben, P. de Vrijer & S. Drosopoulos (WU, CD); 1 ♂, 3 ♀, Florina, 25.VIII.1983, R.H. Cobben & P. de Vrijer (WU); *Grevena Prov.:* 1 ♂, 2 ♀, Anixis and surroundings, 17.VIII.1983, R.H. Cobben, P. de Vrijer & S. Drosopoulos (WU, CD); *Pieria Prov.:* 2 ♂, 1 ♀, Litochoro, 13.VIII.1979; 1 ♂, Vegoritis, Lake Pella, 14.VIII.1979; 2 ♂, 1 ♀, Vryta-Pella, 14.VIII.1979, all leg. S. Drosopoulos (CD). – *Note.* Specimens from Bulgaria with weakly protruding and those from Greece with strongly protruding upper angles of metope. Specimens from Hercegovina with an intermediate condition of the angles, according to figure by Melichar (1896, fig. 31).

**Bubastia (Bubastia) sakisi** Dlabola, 1984. *Material*. Greece: *Ioannina Prov.*: 6 ♂, 7 ♀, Pyrgos, about 20 km N of Konitsa, along Sarandáporos River, 14.VIII.1986, R.H. Cobben, P. de Vrijer & S. Drosopoulos (WU, CD); *Kozani Prov.*: 1 ♂, surrounding Pendálofos, 1300-1400 m, same date, R.H. Cobben & P. de Vrijer (WU).

**Bubastia (Bubastia) saskia** Dlabola, 1984. *Material*. Greece: *Chalcidici*: 3 ♂, 26.VII.1973, S. Drosopoulos (CD); *Thracia, Komotini Prov.*: 1 ♂, 1 ♀, ~20 km W of Komotini, Polyanthon, 17.VII.1983, K. den Bieman (CD); *Florina Prov.*: 9 ♂, 3 ♀, Florina, 25.VIII.1983; 3 ♂, 3 ♀, surrounding Mikrolimni, 16.VIII.1986; 1 ♀, 20 km S of Mikrolimni, Kastoria, 22.VIII.1986, all leg. R.H. Cobben & P. de Vrijer (WU).

**Bubastia (Bubastia) thaidis** Dlabola, 1987. *Material*. Greece, *Florina Prov.*: 21 ♂, 22 ♀, Vevi, 25.VIII.1983, R.H. Cobben, P. de Vrijer & S. Drosopoulos (WU, CD).

**Bubastia thessalica** Dlabola, 1984. *Material* (CD). Greece: *Florina Prov.*: 2 ♂, Psarades, 18.VIII.1986; 1 ♀, Kotas, 15.VIII.1979; *Ioannina Prov.*: 6 ♂, 2 ♀, after Pentalofo, 14.IV.1990, all leg. S. Drosopoulos.

**Bubastia (Bubastia) lindskogii** Dlabola, 1985. *Material* (CD). Greece: *Peloponnesus, Korinthia Prov.*: 2 ♂, 1 ♀, Dervenakia, 6.V.1995; *Argolida Prov.*: 3 ♂, 1 ♀, Nafplio-Pyrgiotika, 29.V.1989; 1 ♂, Menalon Mt., 1600 m, 20.VI.1986, all leg. S. Drosopoulos.

**Bubastia (Acrestia) suturalis** (Fieber, 1877)

*Hysteropterum suturale* Fieber, 1877: 3.

*Bubastia suturale*: Dlabola, 1980: 226, figs 200-207.

*Bubastia quadracuta* Dlabola, 1980: 223, figs 324-329, syn. n.

*Material*. Greece: *Peloponnesus*: 3 ♂, 5 ♀, Acrokorinthos, 31.VII.1979; 5 ♂, 4 ♀, Ag. Andreas-Kinouria, 27.VIII.1988; 8 ♂, 7 ♀, Kastanitsa, 10.IX.1982; 1 ♂, 2 ♀, same locality, 15.IX.1983; 1 ♂, 1 larva, same locality, 17.VII.1985; 1 ♂, 1 ♀, same locality, 24.VIII.1988; 5 ♂, 1 ♀, Parnon, 1450 m, 24.VIII.1988; *Fthiotis Prov.*: 1 ♂, 1 ♀, Arkitsa, 11.VIII.1980; *Attika Prov.*: 1 ♂, 1 ♀, Tatoi, 6.VIII.1986, all leg. S. Drosopoulos (CD); 2 ♂, 5 km E of Rion (Patras), 29.VII.1983, K. den Bieman (CD); 6 ♂, 6 ♀, Piréas, surrounding Kiphissia, 6.VIII.1986, R.H. Cobben & P. de Vrijer (WU); *Kriti (Crete) I., Chania Prov.*, 8 ♂, 4 ♀, Therissos, 550 m, 27.VII.1994; 8 ♂, 2 ♀, Pithari-Guverneto, 3-4.VII.1994, all leg. E. Markadonis (CD); 1 ♂, 1 ♀, Chania, 5.VII.2002, A. Patshumas (CD); 3 ♂, 5 ♀, Levka Ori, 1650 m, 7.IX.1991; 2 ♂, same locality, 5.X.1991; 1 ♂, 1 ♀, same locality, 2000 m, 6.X.1991, all leg. Lyberakis (CD).

Paratypes of *B. quadracuta* (male and female; ZMAN) were examined, but not dissected.

**Bubastia (Acrestia) spartica** Dlabola, 1982. *Material*. Greece: *Peloponnesus*: 1 ♂, Morea, "Acq. 1960", "Coll. v. Oertzen", C. & O. Vogt (ZMAN); *Kefallinia (Cephalonia) I.*: 1 ♂, before Ag. Efthimia, 24.VI.1986, S. Drosopoulos (CD); *Zakynthos I.*: 3 ♂, 1 ♀, Alikanes, "dive grove", 31.VII.1999, B. Levey (NMGW).

**Bubastia (Capititudes) jatagana** Dlabola, 1980. *Material* (CD). Greece, *Samos I.*: 3 ♂, 1 ♀, Pyrgos, 13.VII.1996; 2 ♂, 2 ♀, 1 larva, Pythagorion, 12-15.VII.1997; 1 ♂, 7 ♀, 2 larvae, Chora, 9.VI.1998, all leg. S. Drosopoulos.

**Palmallicus balearicus** (Dlabola, 1982). *Material* (BMNH). NE Spain: 1 ♂, Sitges, 11.VI.1959, W.J. Quesne.

**Barbarissus punctulatus** (Rambur, 1840). *Material*. Spain: *Cadiz Prov.*: 7 ♀, 1 larva, Andalucia, near Zahare

de los Atunes, coastal vegetation, 28.III.-2.IV.1993, M.R. Wilson (NMGW); *Cordoba Prov.*: 1 ♂, 3 larvae, Cordoba, Pardo (NMGW); *Malaga Prov.*: 1 ♀, San Pedro de Alcántare, 12-15.V.1960 (ZMAN). Portugal: *Estremadura Prov.*: 1 ♀, Sesimbra, 17.V.1985, W.H. Gravestein (ZMAN); *Algarve Prov.*: 1 ♂, Conceição de Tavira, 18.V.1958 (ZMAN).

**Numidius litus** Gnezdilov, Guglielmino & D'Urso, 2003. *Material*. Tunisia: 1 ♀, 3-7 km S Korbous, 0-100 m, 26.V.1984, J.P. Duffels (ZMAN); 1 ♂, Ourd Zit, M. Hanthiaux (MNHN).

**Mulsantereum maculifrons** (Mulsant & Rey, 1855). *Material* (ZIN). NE Spain: 2 ♂, 2 ♀, San Feleu, 540 m, 1.VI.2003; 3 ♂, Prats de Llucanes, 659 m, 2.VI.2003, all leg. I.V. Gjonov.

**Latilica tunetana** (Matsumura, 1910). *Material*. Tunisia: 2 ♂, Sbiba, 20.VIII.1962; 4 ♂, 4 ♀, Gafsa, 8-21.XII.1997; 4 ♂, same locality, 8-27.XI.1997; 2 ♂, 3 ♀, same locality, 26.XI.1997, all leg. R. Linnavuori (NMGW); 13 ♂, 12 ♀, Bizerte, dunes, La Corniche, on *Juniperus*, 5.V.1984; 2 ♂, 5 km N of Hammamet, 0-150 m, 9-17.VI.1980; 1 ♂, 6 km S of Hammamet, salt marshes, 12-14.VI.1980, all leg. J.P. Duffels (ZMAN). Libya: 3 ♂, 6 ♀, El Merj, 30.VIII.1962, R. Linnavuori (BMNH). Egypt: 2 ♂, 3 ♀, Hammam, 11-14.VI.1936, A. Rabinovich (USNM).

**Latilica maculipes** (Melichar, 1906). *Material*. Greece: *Kerkyra (Corfu) I.*, 2 ♂, Perama, 17.VIII.1981; 1 ♀, same locality, 18.VIII.1981; 1 ♂, 1 ♀, same locality, 23.VIII.1981; 3 ♀, Achillion, 26.VIII.1981, all leg. W.J. Le Quesne (BMNH); *Zakynthos I.*: 1 ♂, Alikanes, 29.VII.1999; 1 ♂, 3 ♀, same locality, 31.VII.1999, all leg. B. Levey (NMGW). Cyprus: 1 ♀, sand-dunes near Amathus, 22.IV.1965, G.A. Mavromoustakis (ZMAN). Turkey, Constantinople [Istanbul]: 3 ♂, 2 ♀, 4-11.VIII.1925; 1 ♂, 2 ♀, 11-16.VIII.1925; 1 ♂, "Embassy gardens", IX.1923; 4 ♀, same locality, XII.1923, all leg. J. Edwards (BMNH). Israel: 1 ♂, 1 ♀, Et-Zion, 24.VII.1935, A. Rabinovich (MNHN).

**Latilica antalyica** (Dlabola, 1986). *Material*. Italy, *Sicily I.*: 1 ♂, 24.VI.1986, S. Drosopoulos (CD). Greece: *Attika Prov.*: 2 ♂, 1 ♀, Marathon, 11.VII.1984; *Rhodos (Rhodes) I.*: 4 ♂, 8 ♀, Afandou, 28.VII.1987; *Samos I.*: 1 ♂, Chora, 25.VI.1987, all leg. S. Drosopoulos (CD); *Kriti (Crete) I.*: 2 ♂, 1 ♀, Maleme, 13.X.1990, K. den Bieman (CD); *Naxos I.*: 3 ♂, 2 ♀, Mutsuna, 10.X.1981, S. Drosopoulos (CD). Turkey: 13 ♂, 10 ♀, SW Bodrum (Helicarnassus), coastal scrub, on *Olea europaea* L., 24.X.2003, M.V.L. Barclay (BMNH, ZIN).

**Mycterodus (Mycterodus) krameri** Dlabola, 1974. *Material* (NMGW). Iran, *Khurasan*: 1 ♂, 1 ♀, Golestan Park, 150 km W of Bojnurd, 14.VII.1994, R. Linnavuori.

**Mycterodus (Mycterodus) sexpunctatus** Dlabola, 1980. *Material* (NMGW). Iran: 4 ♂, 4 ♀, Tehran, Azad Bar, 70 km W of Karaj, 2410 m, 10.VII.1995, R. Linnavuori.

**Mycterodus (Mycterodus) lapaceki** Dlabola, 1985. *Material* (CD). Greece: *Kos I.*: 3 ♂, 1 ♀, Kardamena, 21.IV.1991, S. Drosopoulos; *Kriti (Crete) I.*: 1 ♂, Moni Preveli, 21.IV.1990, S. Drosopoulos; 1 ♂, Levka Ori, 2000 m, 4.VIII.1991, Lyberakis.

**Mycterodus (Semirodus) pallens** Stål, 1861. *Material*. Croatia: 1 ♂, Dubrovnik, "89-51", "Dr. Eger" (BMNH); 1 ♂, 1 ♀, same locality, 23.V.1952, W.J. Le Quesne (BMNH); 1 ♂, Ombla, 27.V.1934; 1 ♂, 1 ♀, Loznica, 7.VI.1934, all leg. D. Aubertin (BMNH). Greece, *Peloponnesus*: 1 ♂, Tripi-Artemissia, 8.VI.1989; 3 ♂, 4 ♀, Ag. Anargiri, 5.VI.1989; 2 ♂, 3 ♀, near Vrodamas, 3-4.VI.1989; 4 ♂, 2 ♀, Kollines, 17.VI.1990; 1 ♂, 2 ♀, Taigetos Mt., above Anogia, 1900-2200 m, 19.VI.1990; 1 ♀,

Parnonas Mt., Kastanitsa, 27.V.-1.VI.1989; 1 ♂, 11-13.VI.1990; 3 ♂, 1 ♀, no, 7.VI.1989; 1 ♀, near Kiveri, 29.V.1989; 1 ♂, R. Linnavuori (NMGW).

#### Bergevinium marocca

*Hysteropterum marocca*

Type specimen (male)

#### Kervillea (Kervillea)

*Material*. Greece: *Foki* R.H. Cobben, P. de Vrijer 3 ♀, Skaloula-Doris, 15 29-30.IV.1979; 1 ♂, 1 ♀ 5 ♀, Parnassos Mt., 1500 13.IV.1978; *Attika Prov* 3 ♂, 1 ♀, Marathon, 1 14.V.1978; 1 ♂, 1 ♀, Pe Drosopoulos (CD).

#### Rhissolepus insulanus

*Quadrastylum insulanum*  
*Kervillea (Corymbius)*

*Material*. Greece: *Sy* 1994; *Kyklades Is.*: 2 ♀ ♀, 1 larva, same locality, 24.IV.1995; 1 ♂, S 4 ♀, same locality, 19-20.IV.1993; 2 ♂, Syros I., Ateliou, 24-27 (CD); 1 ♂, Naxos I., Mt I., 5.V.1982 all leg. S. E

#### Latematium cingul

(OXUM). Turkey: 2 ♂ Park, 710 m, mixed ve M.V.L. Barclay.

**Latematium cypria** (BMNH). Cyprus: 1 ♂, G.A. Mavromoustakis.

#### Subtribe Agalmatiina

#### Agalmatium bilobur

*Canary Is.*: 3 ♂, Fuert 6.V.1964; 3 ♀, Tenerif 15.IV.1964, all leg. K.M 1 ♂, 12 ♀, Bucarest [B Greece: *Fokis Prov.*: 1 1973, S. Drosopoulos ( 12-20.VII.1978, R.H. C surroundings Heracleion de Vrijer & S. Drosop lected all over Greece, islands, from April unt leg. S. Drosopoulos (CD (Bharet Toula-Ehden), *salviaefolius*; 1 ♂, 2 ♀ 1995; 3 ♂, 3 ♀, Ouata : 21.VI.1986; 1 ♂, 2 ♀, I basses", 29.VI.1985; 1

Parnonas Mt., Kastanitsa, 15.VI.1989; 1 ♂, same locality, 27.V.1.VI.1989; 1 ♂, 1 ♀, Killini Mt., M.S. Trikalon, 11-13.VI.1990; 3 ♂, 1 ♀, Likodimo Mt., Militsa-Kokkino, 7.VI.1989; 1 ♀, near Kehries, 28.V.1989; 1 ♂, 2 ♀, Kiveri, 29.V.1989; 1 ♂, near Boritsa, 5.VI.1989, all leg. R. Linnavuori (NMGW).

**Bergevinium maroccanum** (Lethierry, 1877), **comb. n.**

*Hysteropterum maroccanum* Lethierry, 1877: 46.

Type specimen (male; ISNB) was examined.

**Kervillea (Kervillea) scoleogramma** (Fieber, 1877).

**Material. Greece:** *Fokis Prov.*: 1 ♂, Eratini, 2.V.1975, R.H. Cobben, P. de Vrijer & S. Drosopoulos (WU); 5 ♂, 3 ♀, Skaloula-Doris, 15.X.1976; 4 ♂, 2 ♀, same locality, 29-30.IV.1979; 1 ♂, 1 ♀, Parnassos Mt., 26.V.1978; 6 ♂, 5 ♀, Parnassos Mt., 1500 m, 3.VI.1995; 5 ♂, Vathi-Avlis, 13.IV.1978; *Attika Prov.*: 2 ♂, 5 ♀, Avlon, 9-26.V.1978; 3 ♂, 1 ♀, Marathon, 15.IV.1979; 2 ♀, same locality, 14.V.1978; 1 ♂, 1 ♀, Penteli Mt., 30.IV.1994, all leg. S. Drosopoulos (CD).

**Rhissolepus insulanus** (Dlabola, 1982), **comb. n.**

*Quadrastylum insulanum* Dlabola, 1982: 143, figs 143-152.  
*Kervillea (Corymbius) insulana*: Gnezdilov, 2002: 149.

**Material. Greece:** *Sporades Is.*: 3 ♀, Piperi I., 26.IV.1994; *Kyklades Is.*: 2 ♀, Syros I., Vari, 16-21.IV.1993; 1 ♀, 1 larva, same locality, 6.III.1995; 5 ♂, 4 ♀, same locality, 24.IV.1995; 1 ♂, Syros I., Nites, 21.IV.1993; 3 ♂, 4 ♀, same locality, 19-24.IV.1994; 2 ♂, 6 ♀, Syros I., Papouri, 20.IV.1993; 2 ♂, same locality, 27.IV.1994; 2 ♂, Syros I., Ateliou, 24-27.IV.1994, all leg. J. Lykoskoufis (CD); 1 ♂, Naxos I., Mutsuna, 2.V.1982; 2 ♂, 9 ♀, Thira I., 5.V.1982 all leg. S. Drosopoulos (CD).

**Latematium cingulatum** Dlabola, 1983. **Material** (OXUM). **Turkey:** 2 ♂, Güllükdagi, Termessos Milli Park, 710 m, mixed vegetation, 7.V.2001, D. Mann & M.V.L. Barclay.

**Latematium cypriacum** Dlabola, 1982. **Material** (BMNH). **Cyprus:** 1 ♂, Pera Pedi, "2000 ft.", 9.V.1952, G.A. Mavromoustakis.

Subtribe **Agalmatiina** Gnezdilov

**Agalmatium bilobum** (Fieber, 1877). **Material. Spain, Canary Is.:** 3 ♂, Fuerteventura I., Puerto del Rosario, 6.V.1964; 3 ♀, Tenerife I., San Andres, 50-100 m, 9-15.IV.1964, all leg. K.M. Guichard (BMNH). **Romania:** 1 ♂, 12 ♀, Bucarest [Bucharest], Montandon (MNHN). **Greece:** *Fokis Prov.*: 1 ♂, 1 ♀, Skaloula vill., 8-12.VII.1973, S. Drosopoulos (WU); 12 ♂, 6 ♀, same locality, 12-20.VII.1978, R.H. Cobben (WU); *Kriti (Crete) I.*: 4 ♂, surroundings Heraclion, 25-27.IV.1975, R.H. Cobben, P. de Vrijer & S. Drosopoulos (WU); 310 specimens collected all over Greece, including the Aegean and Ionian islands, from April until September in several years, all leg. S. Drosopoulos (CD). **Lebanon:** 2 ♂, 2 ♀, Ouadi Afga (Bharet Toula-Ehden), 1400 m, 29.VIII.1983, on *Cistus salviaefolius*; 1 ♂, 2 ♀, Balaa (Jbeil), 1600 m, 20.VIII.1995; 3 ♂, 3 ♀, Ouata al-Joz (Kesrouane), "low plants", 21.VI.1986; 1 ♂, 2 ♀, Laklouk (El Moukhada), "plantes basses", 29.VI.1985; 1 ♀, Maad (Batroun), 21.VI.1995;

3 ♂, 17 ♀, Naas (Matn), on *Spartium junceum*, 5.VI.1994, all leg. H. Abdul-Nour (ZIN). **Israel:** 1 ♂, Jerusalem (MNHN).

**Clybeccus declivum** (Dlabola, 1986). **Material. Greece:** *Fournoi I.*: 8 ♂, 7 ♀, S of Fournoi, 0-100 m, 12.VI.1997; 10 ♂, 7 ♀, 3 km S of Fournoi, 200-300 m, 15.VI.1997, all leg. J.P. Duffels (ZMAN); *Rhodes I.*: 3 ♂, 1 ♀, Apolakia, 30.VI.1987; 1 ♀, Mesanargos, 29.VI.1987; 1 ♀, Genadi, Kalathos-Pefki, 28.VI.1987; 3 ♂, 1 ♀, Embonas, 30.V.1990, all leg. S. Drosopoulos (CD).

Tribe **Parahiraciini** Cheng & Yang

Until now the tribe was treated as a monotypic taxon (Cheng & Yang, 1991; Gnezdilov, 2003b). However our studies have shown that the genera *Fortunia* Distant, 1909, *Scantinius* Stål, 1866, *Pterygoma* Melichar, 1903, *Prosonoma* Melichar, 1906, and *Bardunia* Stål, 1863 also belong to the tribe. All these genera are characterized by a strongly protruding metope in shape of proboscis and well developed, bi- or trilobed hind wings.

Genus **Fortunia** Distant, 1909

*Fortunia* Distant, 1909: 83. Type species: *Issus byrrhoides* Walker, 1858.

*Parahiracia* Ôuchi, 1940: 299. Type species: *Parahiracia sinensis* Ôuchi, 1940: 302, **syn. n.**

Type species of both nominal genera were examined.

**Fortunia sinensis** (Ôuchi, 1940), **comb. n.**

*Parahiracia sinensis* Ôuchi, 1940: 302.

**Material. China, Zhejiang Prov.:** 1 ♀, Linan County, West Tianmu Mt., 17.IX.2000, S.A. Belokobylskij (ZIN).

**Fortunia viridis** Lallemand, 1942, **comb. n.**

*Prosonoma viridis* Lallemand, 1942: 77.

**Material. Vietnam, Hanoi Prov.:** 1 ♀, National Park, 21.XI.1990, A.V. Gorochoy (ZIN). **Thailand:** 1 ♀, Phet Buri, ex coll. Le Moults (ISNB). - **Note.** Holotype of *Prosonoma viridis* (female; ISNB) was examined.

Tribe **Colpopterini** Gnezdilov

The diagnosis of the tribe Colpopterini was based on examination of species of the genus *Colpoptera* (Gnezdilov, 2003b). Within the family Issidae, the tribe Colpopterini is closely related to the tribe Thioniini Melichar in well-developed hind wing with broad anal lobe. During this study, specimens of the genera *Eupilis* Walker, 1857, *Tempsa* Stål, 1866, and *Gabaloea* Walker, 1870 were examined. These genera have the same general structure of ovipositor which was described for *Colpoptera carlota* Myers, 1928 (Gnezdilov, 2003b): with extremely narrow anal tube, gonoplags, and anterior connective laminae of gonapophyses VIII. This form of ovipositor had been illustrated by Walker (1857), Melichar (1906), and Metcalf (1954) for *Eupilis albilineola* Walker, 1857, *Tempsa malaya* Stål, 1866, and *Colpoptera punctata* Metcalf, 1954, accordingly. In hind wing venation, *Eupilis* and *Tempsa* are characterized by  $A_1$  bifurcated and partly fused with *Pcu*; *Tempsa* distinguished by deep ex-

cavation in wing margin between remigium and fore part of vannus and  $CuA_2 + CuP$  thickened. The genus *Cheiloceps* Uhler, 1895, according to description by Fennah (1955) has the same ovipositor structure as *C. carlota*. The genus *Ugoa* Fennah, 1945, according to external morphology and particularly hind wing venation, is closely related to the genus *Colpoptera* (Fennah, 1945 and original data). We propose to include the genera *Eupilis*, *Tempsa*, *Gabaloecca*, *Cheiloceps*, and *Ugoa* in the tribe Colpopterini. So, the range of distribution of the tribe now covers Mexico, Central America with Caribbean Islands, the northeastern part of South America, and Southeastern Asia.

**Neocolpoptera memnonia** (Fennah, 1955), **comb. n.**

*Colpoptera memnonia* Fennah, 1955: 26.

The new combination is based on examination of the original description.

Family **TROPIDUCHIDAE** Stål

**Manganutes agenor** Fennah, 1965. *Material* (NMGW). **Yemen**: 2 ♂, 1 larva, Ta'izz-Ibb, 24.III.1992; 1 ♀, Hadhramaut, 50 km NE of Al Mukalla, 20.IV.1992; 2 ♀, Sana'a, Manakhah – Al Hajjarah, 18.V.1992, all leg. R. Linnavuori.

Family **CALISCELIDAE** Amyot & Serville

**Adenissus riadicus** Dlabola, 1985. *Material* (NMGW, ZIN); **Oman**: 8 ♂, 11 ♀, 4 larvae, E Coast, Dibab, 13.XI.1992, on *Limonium axillare*; 2 ♀, Wahiba, Sands SE of Al Wasil, 25.X.1990, on *Calligonum comosum*, all leg. M.D. Gallagher & J.C. Deeming; 1 ♂, near Sur, Nismah, 22.X.1995, "on light", M.W. Balkenohi; 1 ♀, Jabal Shams, 20-21.X.1994, M.D. Gallagher.

Family **NOGODINIDAE** Melichar

**Bilbilicallia truncatella** (Walker, 1851), **comb. n.**

*Hysteropterus truncatellum* Walker, 1851: 377.

Type specimen (female; BMNH) was examined.

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