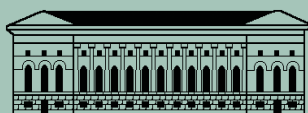


**PROCEEDINGS
OF THE ZOOLOGICAL INSTITUTE RAS**

**THE WESTERN PALAEARCTIC ISSIDAE
(HEMIPTERA, FULGOROIDEA):
AN ILLUSTRATED CHECKLIST
AND KEY TO GENERA AND SUBGENERA**



SUPPLEMENT №1, 2014



ТРУДЫ ЗООЛОГИЧЕСКОГО ИНСТИТУТА
РОССИЙСКОЙ АКАДЕМИИ НАУК

ПРИЛОЖЕНИЕ №1

ISSIDAE ЗАПАДНОЙ ПАЛЕАРКТИКИ
(HEMIPTERA, FULGOROIDEA):
ИЛЛЮСТРИРОВАННЫЙ АННОТИРОВАННЫЙ СПИСОК
С ОПРЕДЕЛИТЕЛЬНЫМИ ТАБЛИЦАМИ РОДОВ И ПОДРОДОВ

В.М. ГНЕЗДИЛОВ, В.Е. ХОЛЬЦИНГЕР, М.Р. УИЛСОН



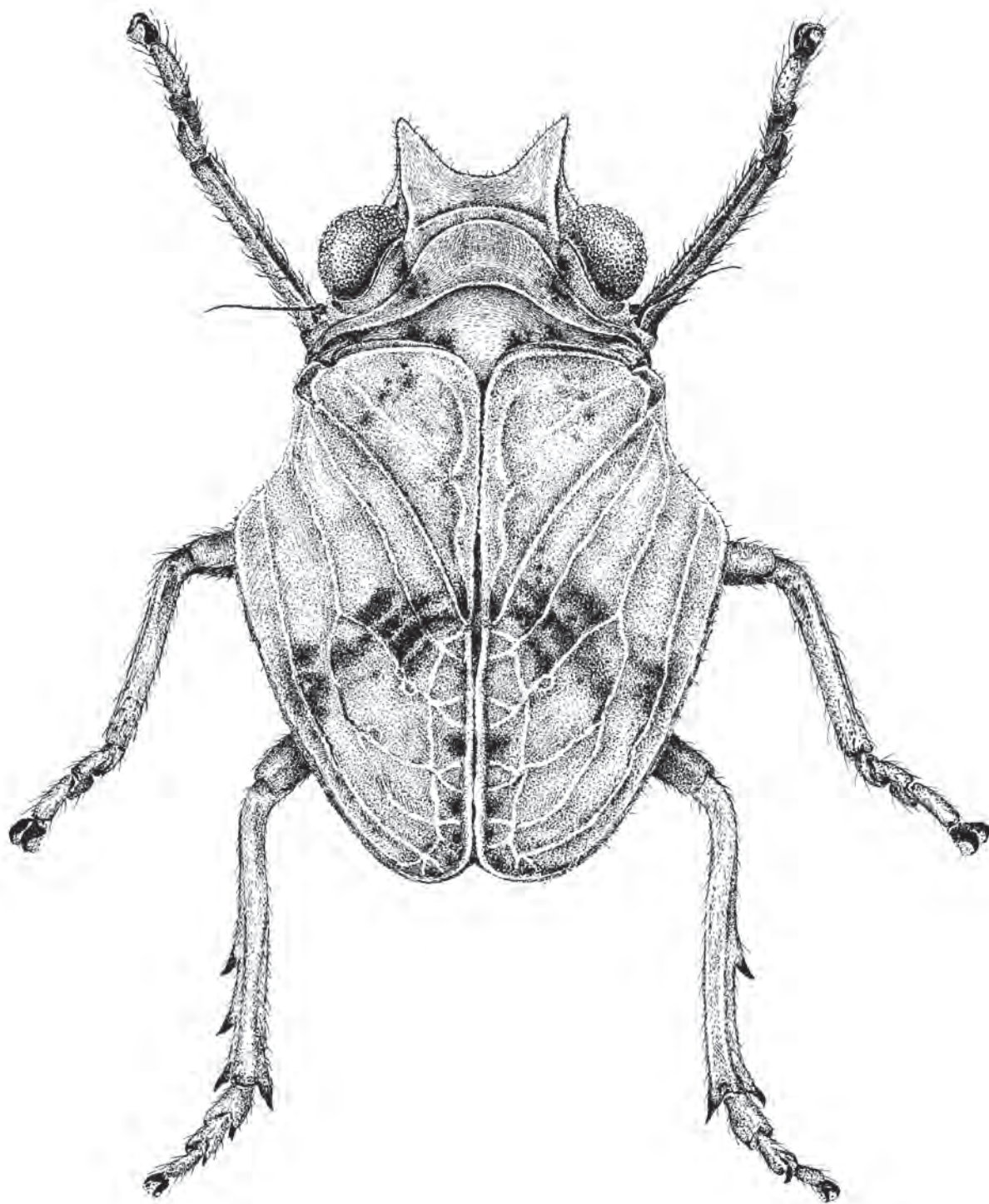
САНКТ-ПЕТЕРБУРГ
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Bubastia sakisi Dlabola, 1984 (© Elke Gröning)



УДК 595.753 (4-013)

THE WESTERN PALAEARCTIC ISSIDAE (HEMIPTERA, FULGOROIDEA): AN ILLUSTRATED CHECKLIST AND KEY TO GENERA AND SUBGENERA

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ABSTRACT

Issidae Spinola, 1839 is a worldwide distributed planthopper family with 404 species in 51 genera in the Western Palaearctic Region which is defined geographically as an area with the eastern limits are Yenisei River, Altai Mountains, Tarbagatai Mountains, Central Tan'-Shan' Mountains, Western Pamir Mountains, and Ind River and the southern limit is Tropic of Cancer. For the first time the check list with keys to genera and subgenera of Western Palaearctic issid fauna are given. All synonymy is included, as are references to the sources useful for species identification. Only reliable data or data confirmed by the examined material are listed as "species distribution". In the Issidae species identification mainly is based on the features of male genitalia while many genera may be recognised fisionomically. The checklist is supplied by the photos of 95 species, every genus is illustrated. Full bibliography on Western Palaearctic Issidae appeared after Metcalf (1958) and Nast (1972, 1987) is provided.

Key words: Issini, morphology, systematics, distribution

ISSIDAE ЗАПАДНОЙ ПАЛЕАРКТИКИ (HEMIPTERA, FULGOROIDEA): ИЛЛЮСТРИРОВАННЫЙ АННОТИРОВАННЫЙ СПИСОК С ОПРЕДЕЛИТЕЛЬНЫМИ ТАБЛИЦАМИ РОДОВ И ПОДРОДОВ

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РЕЗЮМЕ

Issidae Spinola, 1839 — всесветно распространенное семейство цикадовых, насчитывающее в Западной Палеарктике 51 род с 404 видами. При этом, Западная Палеарктика географически определяется, как регион, ограниченный с востока реками Инд и Енисей, а также горными системами Алтай, Тарбагатай, Центральный Тяньшань и Западный Памир, а с юга — тропиком Рака. Впервые составлен аннотированный список цикадовых семейства Issidae фауны Западной Палеарктики с определительными таблицами родов и подродов. Учтены все синонимы, даны ссылки на публикации, которые могут использоваться для определения видов.

В разделе распространения видов приведены только достоверные литературные сведения или данные, подтвержденные изученным нами материалом. В семействе Issidae определение видов, в основном, осуществляется по признакам гениталий самцов, в то время, как многие роды могут быть определены по внешнеморфологическим признакам, то есть физиономически, в связи с чем аннотированный список снабжен фотографиями 95 видов, иллюстрирующими каждый род. Приведен полный список работ по семейству Issidae Западной Палеарктики, опубликованных после выхода в свет каталогов Меткафа (Metcalf, 1958) и Наста (Nast, 1972, 1987).

Ключевые слова: Issini, морфология, систематика, распространение

INTRODUCTION

Issidae Spinola, 1839 is a worldwide distributed family with the world fauna comprising currently 993 species and subspecies in 158 genera (Gnezdilov 2013a).

During the last fifteen years the treatment of the family Issidae was revised. The Caliscelidae Amyot & Serville, 1843 and Acanaloniidae Amyot & Serville, 1843 treated by Fennah (1954) as subfamilies of the Issidae were upgraded again to the family rank, the subfamily Trienopinae Fennah, 1954 was transferred to the family Tropiduchidae Stål, 1866 and the subfamily Tonginae Kirkaldy, 1907 — to the family Nogodinidae Melichar, 1898 both as tribes (Emeljanov 1999; Gnezdilov 2003a, 2007). The tribe Adenissini Dlabola, 1980 erected in the family Issidae (Dlabola, 1980) was transferred to the Caliscelidae (Gnezdilov 2003a; Gnezdilov & Wilson 2006) and the tribe Colpopterini Gnezdilov, 2003 — to the Nogodinidae (Gnezdilov 2012). These taxonomic changes are mainly based on the features of male and female genitalia. The key to all families of Fulgoromorpha Evans, 1946 recorded from the area of Western Palaearctic was recently published by Wilson & Turner (2010). Currently the family Issidae *sensu stricto* includes nominative subfamily with 3 tribes: Issini Spinola, 1839 (= Thioniini Melichar, 1906), Hemisphaeriini Melichar, 1906, Parahiraciini Cheng & Yang, 1991 (Gnezdilov 2003b, 2009, 2012).

The largest tribe Issini is worldwide distributed. It comprises 3 subtribes (Gnezdilov 2002c), all of them are present in the Western Palaearctic: Issina Spinola, 1839, Hysteropterina Melichar, 1906, Agalmatiina Gnezdilov, 2002. The tribes Parahiraciini and Hemisphaeriini are endemics to the Oriental Region.

Despite of long history of Auchenorrhyncha study in Europe the issid fauna of Western Palaearctic was never in a focus of a monographic study except

of the Metcalf's catalogue of world Issidae (Metcalf 1958) and Nast's catalogue of Palaearctic Auchenorrhyncha Duméril, 1806 (Nast 1972). However since that time the treatment of the family Issidae was changed and many new taxa and faunistic records were added. Thus the present work is a first attempt to accumulate and revise taxonomic and faunistic data of the family Issidae from the Western Palaearctic.

Generic revision of Western Palaearctic Issidae was started by Emeljanov (1971) and continued by Dlabola (1979a, 1980a, 1982, 1984 etc.) and Gnezdilov (2003a). Recently Gnezdilov (2002c) proposed subtribal division of the tribe Issini based on the structure of ovipositor and reviewed European fauna of the family (Gnezdilov 2003a).

The total Western Palaearctic issid fauna comprises 51 genera with 404 species (3 of them with 2 subspecies each). The main subtribe Hysteropterina Melichar includes 44 genera with 350 species, the subtribes Agalmatiina Gnezdilov and Issina Spinola — 5 genera with 19 species and 2 genera with 33 species accordingly. Six genera: *Mycterodus* Spinola, *Tshurtshurnella* Kusnezov, *Issus* Fabricius, *Celyphoma* Emeljanov, *Kervillea* Bergevin, and *Bubastia* Emeljanov, include from 20 to 79 species each and totaling 216 species, which is more than half of known Western Palaearctic species. The largest genus is *Mycterodus* with 79 species. Thirteen genera are monotypic and 30 genera (except *Eusarima* Yang and *Kovacsiana* Synave) include from 2 to 12 species in the Western Palaearctic.

Main part of Western Palaearctic species inhabit arid or semiarid biotopes, many of them are members of mediterranean and steppe communities (Pl. 1). Still now the ecological and biological characters of the Issidae are poorly known. Sacchi (1930) and Silvestri (1934) were pioneers in biological study of the family. They described oviposition of *Agalmatium flavescens* (Olivier). Some data were published by Emeljanov

(1969), Logvinenko (1975a), Kaplin (1986), Remane (1985), Nickel (2003), and Whitehead & Key (2010). Mitjaev (2002) during many years studied the ecology and host plants of issids in Kazakhstan.

The species mostly appear restricted in their distribution and are endemic at different levels, very few species are widespread. Thus, *Scorlupella montana* (Becker) is distributed across Middle Asia, Turkey and Caucasus up to Eastern Europe, *Agalmatium bilobum* (Fieber) was introduced to California in USA (Gnezdilov & O'Brien 2006) and *Issus coleoptratus* (Fabricius) is known from St. Helene Island and Hong Kong (Synave 1976; Gnezdilov et al. 2004). Apparently *Pseudohemisphaerius piceus* (Puton) is one of the rarest species — it was described from Parnassos Mt. in Greece (Puton 1884) and was repeatedly collected only once during 100 years (Gnezdilov 2011).

Issidae records are present from 58 countries (about 75 countries are in the area of Western Palaearctic). Thirty three countries host no more than 10 species. The richest issid fauna is in Turkey (102 species + 4 dubious records) followed by Greece (61+2), Spain (49+2), Iran (44), Italy (28+1), Morocco (27+2), Algeria (25+1), Russia (21), Kazakhstan (21) and France (17+1) (Pl. 1). However the study of issid fauna in some countries is in infancy.

In the Issidae species identification mainly is based on the features of male genitalia while many genera may be recognised fisionomically. The check list below is supplied by the photos of 95 species, every genus is illustrated.

MATERIAL AND METHODS

Limits of the Western Palaearctic

We have defined the area of the Western Palaearctic Region following Emeljanov (1974). The eastern limits of the Western Palaearctic are Yenisei River, Altai Mountains, Tarbagatai Mountains, Central Tan'-Shan' Mountains, Western Pamir Mountains, Ind River. Southern limit of Western Palaearctic is Tropic of Cancer (map — Pl. 1).

Photographs

Photographs of the specimens mainly were made using Leica MZ8 with JVC video camera KY F70B,

also with Nikon video camera SMZ 1500 and Olympus SZH with Dinolite digital camera ver. 2.7.0.0. Images are produced using the software Synoptics Automontage, ACT-2U Combine Z5, and Adobe Photoshop. The drawings to illustrate the key to genera were reproduced from various sources mentioned in the legends to the plates.

Format

All data published until January 2014 are included in the checklist, where the genera are grouped in the subtribes and listed in alphabetical order. In "species distribution" only reliable data or data confirmed by the examined material are listed. In some dubious cases the records are marked by "?" and the literature source is given. Some species are still known from the territory of the former Yugoslavia without further information as to which country. The species on the plates are illustrated in 3 aspects — dorsal, lateral, and frontal views. All publications on Western Palaearctic Issidae appeared after Metcalf (1958) and Nast (1972, 1987) including those not cited in the text are mentioned in the references.

Abbreviations for Museums

BMNH — the Natural History Museum, London, United Kingdom;

CAH — Dr M. Asche & Prof. H. Hoch collection, Berlin, Germany;

HMIM — Hayk Mirzayans Insect Museum, Iranian Research Institute of Plant Protection, Tehran, Iran;

IRSNB — Institut royal des Sciences naturelles de Belgique, Brussels, Belgium;

KDB — Dr K. den Bieman collection, Ulvenhout, The Netherlands;

MNHN — Muséum national d'Histoire naturelle, Paris, France;

NMWC — National Museum of Wales, Cardiff, United Kingdom;

NMPC — Museum of Natural History, Prague, Czech Republic;

SDC — Prof. S. Drosopoulos collection, Athens, Greece;

ZIN — Zoological Institute, Russian Academy of Sciences, Saint Petersburg, Russia;

ZMAN — Universiteit van Amsterdam, Zoölogisch Museum, Amsterdam, The Netherlands;

ZMH — Zoologisches Museum Hamburg, Germany;

ZSM — Zoologische Staatssammlung München, Germany.

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We thank our friends and colleagues who made specimens available for our study: Dr Kees den Bieman (Ulvenhout, The Netherlands), Dr Hans Duffels and Mr Willem Hogenes (Amsterdam, The Netherlands), Dr Jan van Tol (Leiden, The Netherlands), Mr Jérôme Constant (Brussels, Belgium), Prof. Dr Thierry Bourgoïn and Dr Adeline Soulier-Perkins (Paris, France), Mr Mick Webb (London, United Kingdom), Dr Petr Kment (Prague, Czech Republic), Dr Igor Malenovský and Dr Pavel Lauterer (Brno, Czech Republic), Prof. Dr Sakis Drosopou-

los (Athens, Greece), Prof. Dr Hans Strümpel (Hamburg, Germany), Dr Christian Schmidt (Dresden, Germany), Prof. Dr Hannelore Hoch, Dr Manfred Asche, and Dr Jürgen Deckert (Berlin, Germany), Prof. Dr Klaus Schönlitzer (München, Germany), Mr Andras Orosz and Dr David Rédei (Budapest, Hungary), Dr Anna Maryńska-Nadachowska (Krakow, Poland), Dr Adam Stroiński (Warszawa, Poland), Prof. Dr Ivan D. Mitjaev (Alma-Ata, Kazakhstan).

We thank Prof. Dr Alexandr Emeljanov (St. Petersburg, Russia) for his comments on the limits of Western Palaearctic area, Dr Elke Gröning (Clausthal-Zellerfeld, Germany) for her excellent drawing of *Bubastia sakisi* Dlabola and permission to publish it, Dr James Turner (Cardiff, United Kingdom) for his advise on taking images of the species, Mr Gernot Kunz (Graz, Austria) for his permission to use his photos of living isoids, Mr Laurent Fauvre (Paris, France) and Dr Fariba Mozaffarian (Tehran, Iran) for providing some photos, Mr Philipp Zimmermann (Graz, Austria) for providing a map for the plate 1, Dr Igor Malenovský (Brno, Czech Republic) for providing a translation of J. Dlabola's biography from Czech to English, Dr Dominique Pluot-Sigwalt (Paris, France) for providing E. de Bergevin's biographic data and Mrs Jocelyne Guglielmi (Paris, France) — for his portrait, Prof. Dr Vera A. Richter (St. Petersburg, Russia) and Dr Anatoly G. Kotenko (Kiev, Ukraine) for providing V.N. Logvinenko's biographic data and her photo, Dr Roman Jashchenko (Alma-Ata, Kazakhstan) for providing I.D. Mitjaev's biographic data and his photo, and Dr Ljiljana Protić (Belgrad, Serbia) for her information on some publications cited.

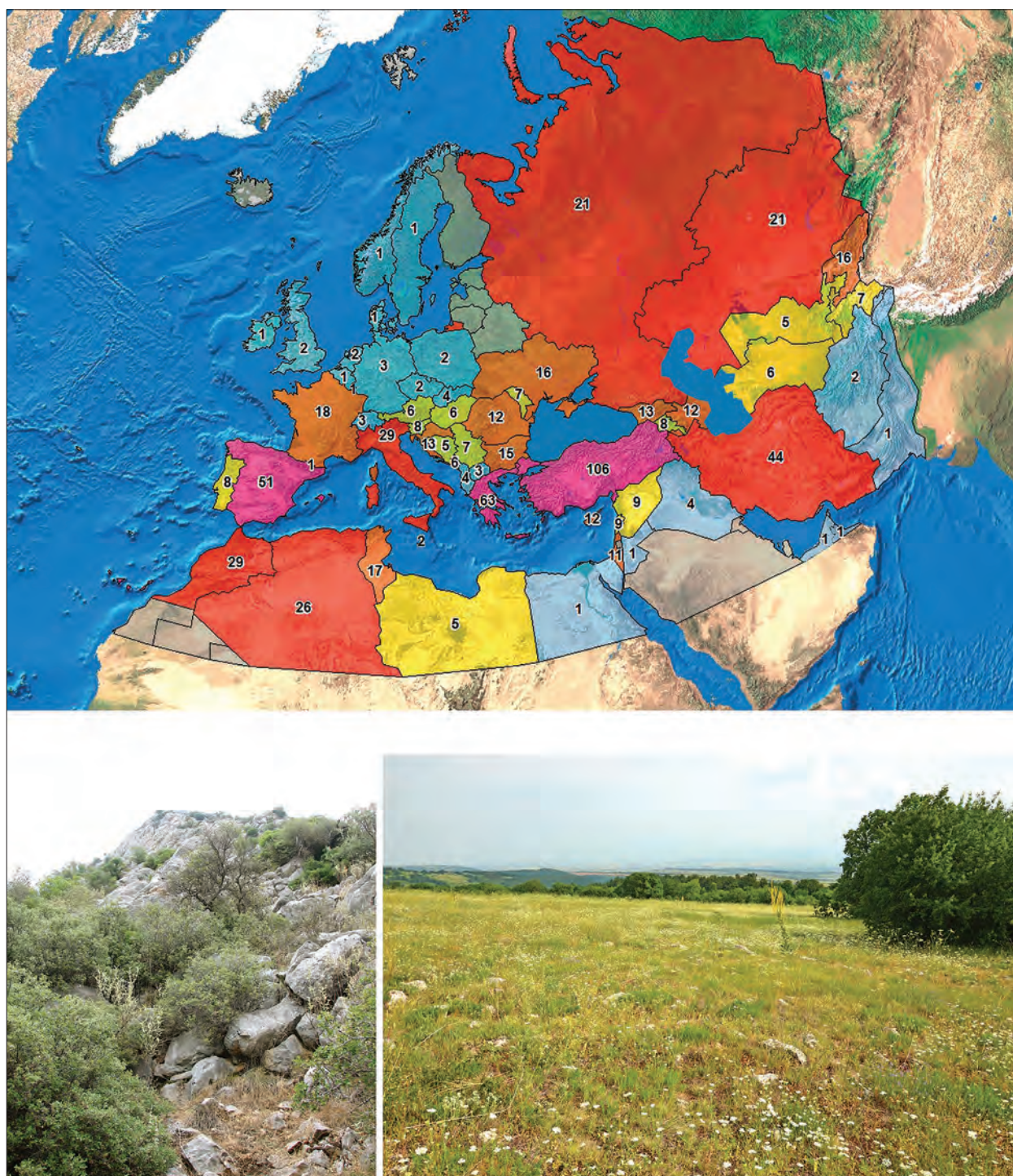


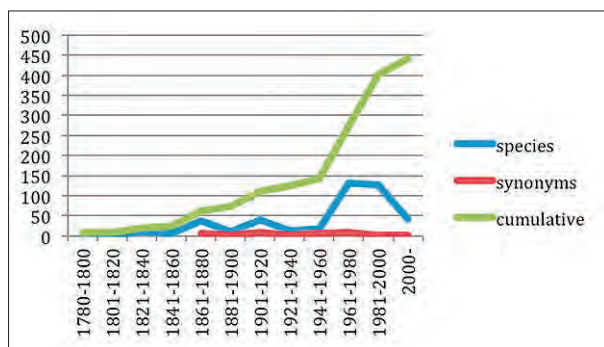
Plate 1. Map of Western Palaearctic area with a number of species known for every country, top (by P. Zimmermann); Mediterranean community in Greece (photo by V. Gnezdilov), bottom left; Steppe-like community in Bulgaria (photo by W. Holzinger), bottom right.

WHO HAS DESCRIBED THE ISSID SPECIES?

Over 50 authors have described a total of over 400 species of Palaearctic Issidae, starting from early workers such as Fabricius. Interestingly, Linnaeus did not describe any species from this region. Eleven authors are responsible for 76% of the described species, and Dlabola is responsible for 164 species (36%).

The accumulation curve by each 20-year period shows a typical gradual accumulation of species until the late 19th century. Forty species were described between 1900 and 1920. The large majority of the species (around 50%) was described when Dlabola and other modern workers were active. The recent work by Gnezdilov and co-authors has added further species.

Dates	Species	Synonyms	Cumulative
1780–1800	8	1	8
1801–1820	1		9
1821–1840	11	4	20
1841–1860	5		25
1861–1880	36	5	61
1881–1900	11	1	72
1901–1920	40	7	112
1921–1940	13	1	125
1941–1960	18	5	143
1961–1980	131	8	274
1981–2000	127	2	401
2000–	41	3	442



Biographies of Major Workers on Western Palaearctic Issidae

Bergevin, Ernest de (1859–1933) (Pl. 2)

Ernest de Bergevin lived in Algeria and is the author of many significant taxonomic works on the fauna of North Africa (Seurat 1930). He described 21 WP issid species (5 synonyms). His collection is deposited in the Museum National d'Histoire Naturelle, Paris, France.

Dlabola, Jirí (born 1922) (Pl. 3)

Jirí Dlabola, worked for most of his career in the Museum of Natural History, Prague, Czech Republic (Jezek 1994). He travelled extensively in the Middle East and Iran and is one of the most important workers on the Auchenorrhyncha fauna of the Middle East. Among his many papers are those dealing with issid faunas and he has described 164 WP issid species (9 synonyms), which is 36% of the currently known Western Palaearctic fauna. His collections are deposited in the Museum of Natural History, Prague and in the Muséum national d'Histoire naturelle, Paris, France.

Emeljanov, Alexandr Fedorovich (born 1936) (Pl. 3)

Alexandr Emeljanov, based at the Zoological Institute of the Russian Academy of Sciences, Saint Petersburg has extensively studied the taxonomy, zoogeography and phylogeny of the Auchenorrhyncha from a world perspective and especially the family Dictyopharidae. He travelled with many expeditions in the former USSR and Mongolia and has published widely on this fauna. An estimate has been given that he has spent 7 years on fieldwork! (Kozlov & Richter 2006). He described 11 WP issid species.

Fieber, Franz Xavier (1807–1872)

Franz X. Fieber was one of the most important early workers on Auchenorrhyncha and publishing extensively on the Central European fauna. Most types are in the Muséum national d'Histoire naturelle, Paris, France and in the Naturhistorische Museum Wien, Austria.

He described 17 WP issid species (2 synonyms).

Lindberg, Håkan (1898–1966)

Håkan Lindberg worked for most of his career at the University of Helsinki, Finland. He is best known for his works on the Heteroptera and Auchenorrhyncha faunas of Canary Islands, Cape Verde and Cyprus. His collection is deposited in the Zoological Museum, Helsinki. He described 17 WP issid species and subspecies (3 synonyms).

Linnavuori, Rauno (born 1927) (Pl. 2)

Based in Finland, Rauno Linnavuori has been publishing on Hemiptera since 1948 and is arguably one of the greatest Hemipterists of the last 50 years, working on both Auchenorrhyncha and Heteroptera. He has travelled and collected extensively in Africa and the Middle East and described many new species based on this fieldwork. His collections are largely deposited in the American Museum of Natural History, New York, USA and in the National Museum of Wales, Cardiff, UK. He described 18 WP issid species and subspecies (4 synonyms).

Logvinenko, Valentina Nikolaevna (1929–1983) (Pl. 2)

Valentina Logvinenko was born in Kharkov, Ukraine and studied Biology in Kharkov State University followed by post graduate work in the Institute of Zoology of Ukrainian Academy of Sciences, Kiev on the leafhoppers of the Ukraine. She continued to work at the Institute for the rest of her career, specialising in the faunistics and taxonomy of Auchenorrhyncha and published 65 papers and a monograph on Fulgoroidea of Ukraine (Anufriev & Osychnyuk 1985). She described 24 WP issid species (2 synonyms).

Melichar, Leopold (1856–1924) (Pl. 2)

Leopold Melichar was born in Brno and was for most of his career a medical doctor in Vienna. He initially published on the Central European Auchenorrhyncha fauna but began to produce important monographs on planthopper families, including one on Issidae (1906). He also produced a comprehensive revision of the leafhopper subfamily Cicadellinae. His collections are housed in the Moravian Museum, Brno, Czech Republic. He described 19 WP issid species (3 synonyms).

Mitjaev, Ivan Dmitrievich (born 1928) (Pl. 3)

Ivan Mitjaev was born in Leninka village, Kazakhstan and studied Biology in Kazakh State University. He started his scientific career as a PhD-student at the Institute of Zoology of the Kazakh Academy of Sciences in Alma-Ata. During the preparation of his PhD thesis (“Insects-pests of Tamarix in Balkhash-Alakol hollow”) he spent almost a year in the field collecting the material along Ili and Karatal Rivers in Kazakhstan. He continued to work in the Institute of Zoology and devoted his life to the study of Auchenorrhyncha fauna of Kazakhstan. He published about 100 papers including 2 monographs on Auchenorrhyncha of Kazakhstan (1971, 2002) and described 11 WP issid species.

Remane, Reinhard (1929–2009) (Pl. 3)

Reinhard Remane inspired a generation of Central European Auchenorrhyncha (and Heteroptera) specialists, while an academic teacher at University of Marburg, Germany. He published since 1957 on the taxonomy, speciation, phylogeny and evolution of European and Western Mediterranean Auchenorrhyncha. He was especially interested in the Canary Islands, from where he described 11 *Issus* species. His collection is now in the Senckenberg Naturhistorische Sammlungen, Dresden, Germany.



Plate 2. Ernest de Bergevin (from MNHN Entomological Library, Paris, France), top left; Valentina Logvinenko (photo by G. Kotenko), top right; Leopold Melichar (from MMBC, Brno, Czech Republic), bottom left; Rauno Linnavuori, bottom right.



Plate 3. Jirí Dlabola (photo by W. Holzinger), top left; Alexandr Emeljanov (photo by V. Gnezdilov), top right; Ivan Mitjaev (photo by R. Jashchenko), bottom left; Reinhard Remane (photo by W. Holzinger), bottom right.

MORPHOLOGY OF THE FAMILY ISSIDAE

Terminology

The terminology of the head follows Emeljanov (1995). According to him in the advanced families of Fulgoroidea Kirkaldy, 1907, including Issidae, the division into the vertical and facial sides of the head runs between the “coryphe” and “metope”. This can be determined in the nymphal stage, when the metope bears two rows of sensory pits along the lateral keels and the sublateral carinae. The coryphe is always without sensory pits. In the Issidae the “metope” corresponds with the frons and “coryphe” — the vertex.

A sensory pit — a small hole with horizontal seta directed inwards and diverging from its border, the length of the seta is not greater than diameter of the hole according to Emeljanov (2001c).

Hypocostal plate — a basal extension of the forewing below and perpendicular to the costal margin according to Emeljanov (1971).

The terminology of the male genitalia follows Gnezdilov (2003a, b) and that of the female genitalia — Bourgoïn (1993) and Gnezdilov (2002c).

General Characters of the Family

Issidae are “beetle-like” planthoppers (Pl. 4) with total length (from apex of the head or apex of the head proboscis (Parahiraciini) to apex of fore wings or apex of abdomen in subbrachypterous species) 1.9–12.5 mm. Adults from macropterous (tropical Issini) to subbrachypterous (all Western Palaearctic species), with body shape (head with fore wings and abdomen) from elongate (Parahiraciini) to ovoid (Issini) or hemisphaerical (Hemisphaeriini). Metope often with median and sublateral carinae, and sometimes with transverse carina (*Issus* spp., *Brachyprosopa* spp.) (Pl. 6, fig. 2, Pl. 13, figs a–d). Metopoclypeal suture arched or almost straight. Postclypeus without lateral carinae. Coryphe transverse or elongate (Pl. 6, fig. 1, Pl. 4). Pronotum with large disc and narrow paraclypeal fields behind the eyes. Mesonotum relatively short. Fore wings dull, rigid and convex (elytriform) or flat and transparent (Issini: *Oronoqua* spp.), often with hypocostal plate (Pl. 5, fig. 4). Venation diverse, sometimes obscure (Issini: *Pseudohemisphaerius* Melichar, 1906 and Hemisphaeriini). For main part of Western Palaearctic species venation pattern of fore

wing as follows — radius with 2 or 3 branches, median simple, or with 3–4 branches, cubitus anterior simple or with 2 branches. Hind wings normally developed, with diverse venation, often with 2 marginal clefts (e. g. *Eusarima* spp.) or more or less rudimentary (all other Western Palaearctic species). Legs usually short and strong (except Parahiraciini with long legs). The axis of coxa — trochanter articulation of hind leg, as a rule, more or less horizontal (Anufriev & Emeljanov 1988). Hind tibia with 1–6 (usually 1–2) lateral spines or without them (*Sfaxia* spp.) and with 2 latero-apical and some apical intermediate spines (Pl. 5, fig. 3). First metatarsomere usually with 2 latero-apical spines and with some apical intermediate spines (Pl. 5, fig. 3). Second metatarsomere with only 2 latero-apical spines. Some genera (*Balduza* Gnezdilov & O'Brien, 2006, *Kathleenium* Gnezdilov, 2004, *Lethierium* Dlabola, 1980) are characterized by the presence of sensory pits in imago on abdominal sternites IV–VI. In Auchenorrhyncha sensory pits are specific organs in fulgoroid larvae and are very rare in imago (Emeljanov 2001c; Gnezdilov & Wilson 2007c).

Male genitalia. Anal tube is of different shape, with anal column (Pl. 6, figs 7, 8). Penis with sclerotized phallobase divided into dorso-lateral and ventral lobes (Pl. 6, figs 3, 4). Dorso-lateral lobes often with teeth or processes. Aedeagus with pair of apical processes, phallotreme between them, and 1–2 pairs of ventral hooks or without hooks. Ventral hooks with simple apices or bifurcate. Style with a distinct capitulum, often on neck, bearing apical and lateral teeth (except *Lindbergatium* spp. with rudimentary lateral tooth) (Pl. 6, figs 5, 6, 9, Pl. 11, fig. 5). Hind margin of style convex, straight or concave.

Female genitalia. Hind margin of pregenital sternum VII widely concave (Pl. 5, fig. 1) or with median process. Ovipositor rounded (Pl. 5, figs 1, 2) or beak-shaped (some Oriental Issini). In rounded ovipositor gonoplares convex, fused basally, sometimes with transverse keel outside (Pl. 5, fig. 2). Gonapophyses IX fused proximally and joined with scoop-shaped gonospiculum bridge. Posterior connective lamina of gonapophyses IX with usually convex proximal part and arcuated, curved at angle or rather straight distal parts (Pl. 7, fig. 3). Median field of the lamina, a weakly pigmented area situated between its distal parts, weakly convex, mono- or bilobed apically (Pl. 7, figs 3, 4, Pl. 10, figs 1, 2) or in form of a large process curved to the base of gonapophyses (subtribe Agal-



Plate 4. *Agalmatium bilobum* (Fieber), top left; *Kervillea conspurcata* (Spinola), top right; *Conosimus coelatus* Mulsant & Rey, mid left; *Hysteropterum dolichotum* Gnezdilov & Mazzoni, mid right; *Issus muscaeformis* (Schrank), bottom left; *Mycterodus cuniciceps* Melichar, bottom right (all photos by G. Kunz).

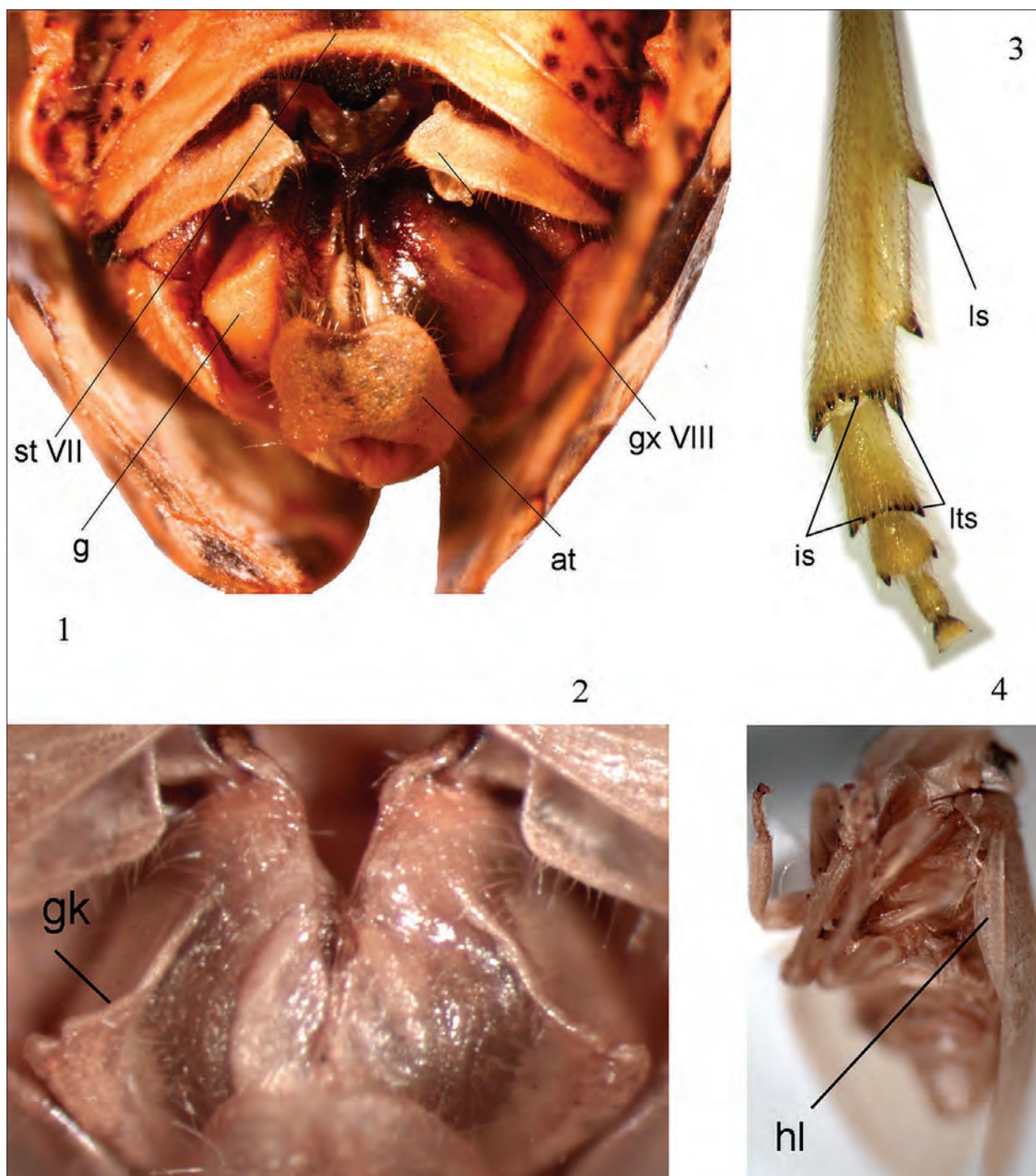


Plate 5. 1, *Iberanum dlabolai* Gnezdilov, ovipositor, ventral view; 2, *Palaeolithium distinguendum* (Kirschbaum), ovipositor, ventral view; 3, *Pamphylum cingulatum* (Dlabola), hind leg; 4, *Agalmatium bilobum* (Fieber), ventral view.

Abbreviations: at – anal tube; g – gonoplac; gk – keel of gonoplac; gx VIII – hind margin of gonocoxa VIII; hl – hypocostal plate of fore wing; is – intermediate apical spines of hind tibia and first metatarsomere; ls – lateral spines of hind tibia; lts – latero-apical spines of hind tibia and first metatarsomere; st VII – hind margin of sternum VII.

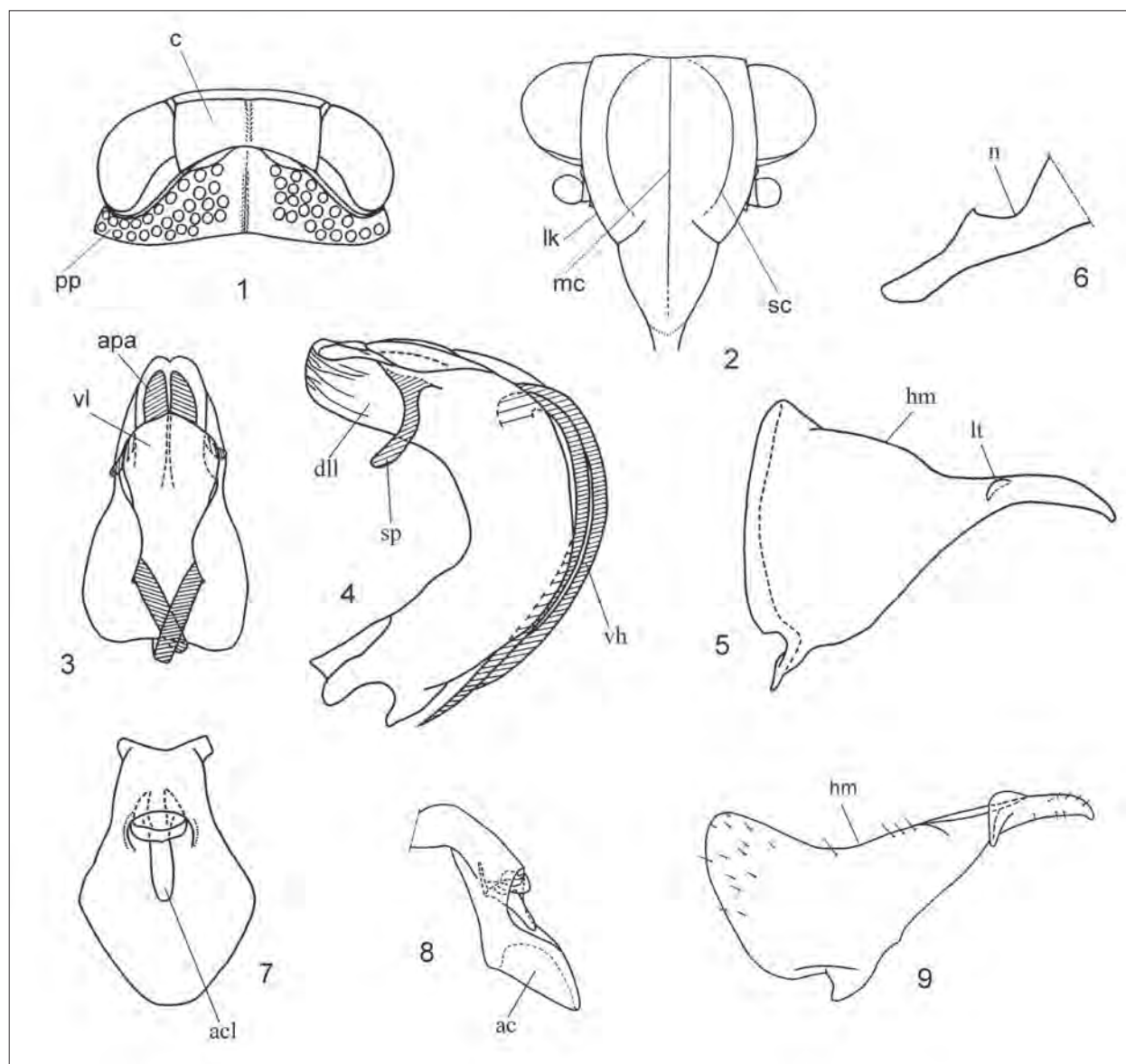


Plate 6. 1, *Tshurtshurnella eugeniae* Kusnezov, head and pronotum, dorsal view (after Gnezdilov, 2002d); 2, *Tshurtshurnella mysica* Gnezdilov, head, frontal view (after Gnezdilov, 2002d); 3, *Fieberium impressum* (Fieber), penis, ventral view (after Gnezdilov, 2003a); 4, same, lateral view (after Gnezdilov, 2003a); 5, *F. impressum* (Fieber), style, lateral view (after Gnezdilov, 2003a); 6, same, capitulum of style, dorsal view (after Gnezdilov, 2003a); 7, *F. impressum* (Fieber), male anal tube, dorsal view (after Gnezdilov, 2003a); 8, *Numidius litus* Gnezdilov, Guglielmino & D'Urso, male anal tube, lateral view (after Gnezdilov, Guglielmino & D'Urso, 2003); 9, *Anatolodus pictifrons* (Melichar), style, lateral view (after Gnezdilov, 2002a). Abbreviations: apa – apical processes of aedeagus; ac – apical concavity of ventral side of male anal tube; acl – anal column of anal tube; c – coryphe; dll – dorso-lateral phallobase lobes; hm – hind margin of style; lk – lateral keel of metope; lt – lateral tooth of style; mc – median carina of metope; n – neck of capitulum of style; pp – paradiscal fields of pronotum; sc – sublateral carina of metope; sp – subapical process of dorso-lateral phallobase lobe; vh – ventral aedeagal hooks; vl – ventral phallobase lobe.

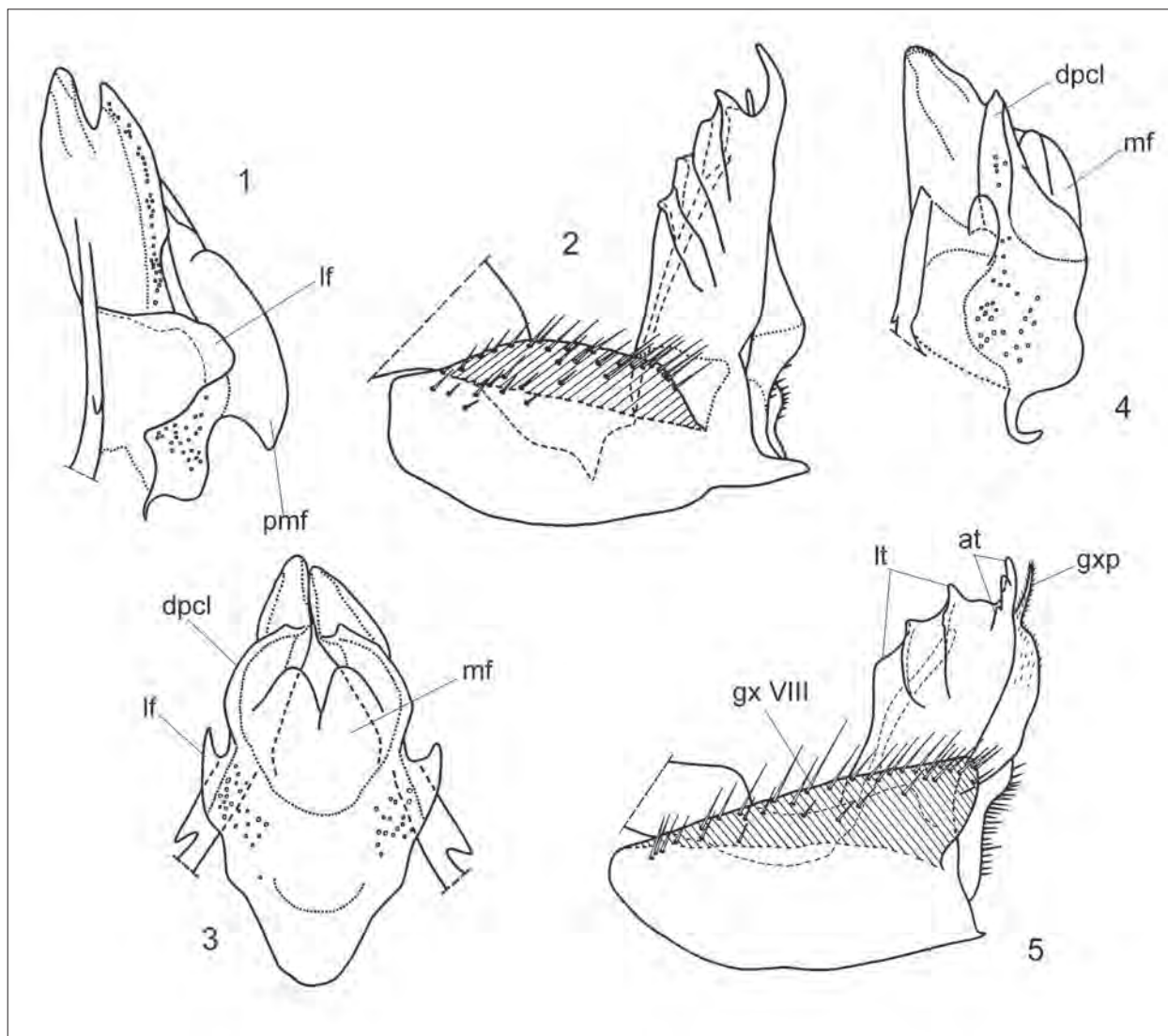


Plate 7. 1, *Tingissus guadarramense* (Melichar), posterior connective lamina of gonapophyses IX, lateral view (after Gnezdilov, 2003a); 2, *T. guadarramense* (Melichar), anterior connective lamina of gonapophyse VIII, lateral view (after Gnezdilov, 2003a); 3, *Hysteropterum reticulatum* (Herrich-Schäffer), posterior connective lamina of gonapophyses IX, dorsal view (after Gnezdilov, 2002c); 4, *H. reticulatum* (Herrich-Schäffer), posterior connective lamina of gonapophyses IX, lateral view (after Gnezdilov, 2002c); 5, *Iberanum dlabolai* Gnezdilov, anterior connective lamina of gonapophyse VIII, lateral view (after Gnezdilov, 2003a).

Abbreviations: mf — median field of posterior connective lamina of gonapophyses IX; pmf — process of the median field of posterior connective lamina of gonapophyses IX; dpcl — distal parts of posterior connective lamina of gonapophyses IX; lf — lateral field of posterior connective lamina of gonapophyses IX; gx VIII — hind margin of gonocoxa VIII; lt — lateral teeth of anterior connective lamina of gonapophyse VIII; at — apical teeth of anterior connective lamina of gonapophyse VIII; gxp — endogonocoxal process.

matiina) (Pl. 7, fig. 1). Lateral fields of the lamina, weakly pigmented areas situated between posterior fibulae and the proximal part of the lamina, flat or in shape of projections. Anterior connective lamina of gonapophyse VIII usually in shape of relatively

broad plate with apical and lateral groups of teeth (these groups include 1–3 and 1–5 teeth, respectively) (Pl. 7, fig. 5). Endogonocoxal process either simple or 2-3-lobed. Hind margin of gonocoxa VIII often protruding as a lobe (Pl. 5, fig. 1, Pl. 7, figs 2, 5).

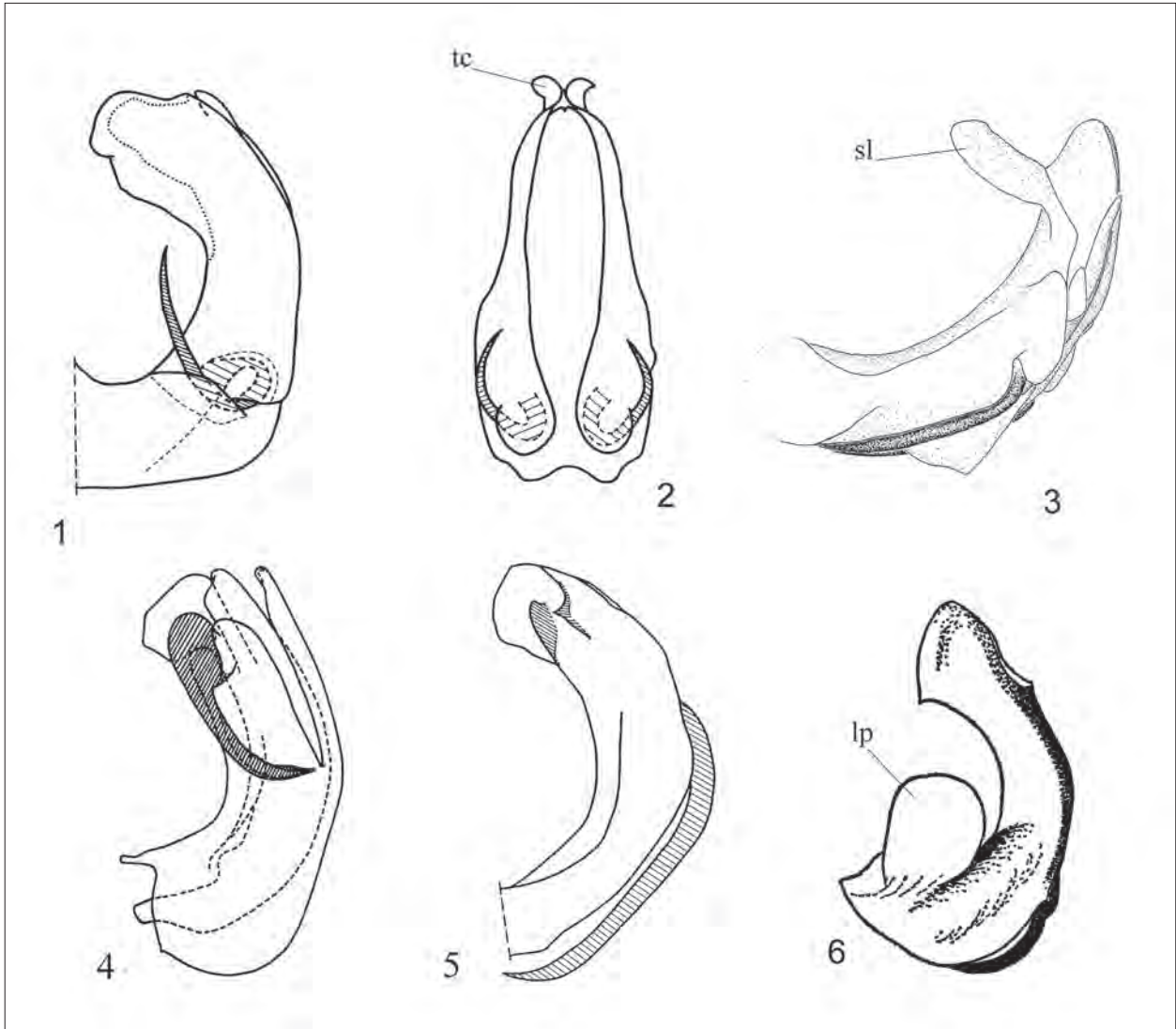


Plate 8. 1, *Falcidius limbatus* (A. Costa), penis, lateral view (after Gnezdilov, 2003a); 2, *Falcidius apterus* (Fabricius), penis, ventral view (after Gnezdilov & Wilson, 2008); 3, *Latissus dilatatus* (Fourcroy), penis, lateral view (after Holzinger, Kammerlander & Nickel, 2003, modified); 4, *Anatonga alosa* (Emeljanov), penis, lateral view (after Emeljanov, 2001b); 5, *Semissus semissoides* (Bergevin), penis, lateral view (after Gnezdilov & Wilson, 2005a); 6, *Lethierium reiberi* (Lethierry), penis, lateral view (after Dlabola, 1980a, modified).

Abbreviations: lp – lobe-shaped process of phallobase; sl – subapical lobe of phallobase; tc – tubular collar of phallobase.

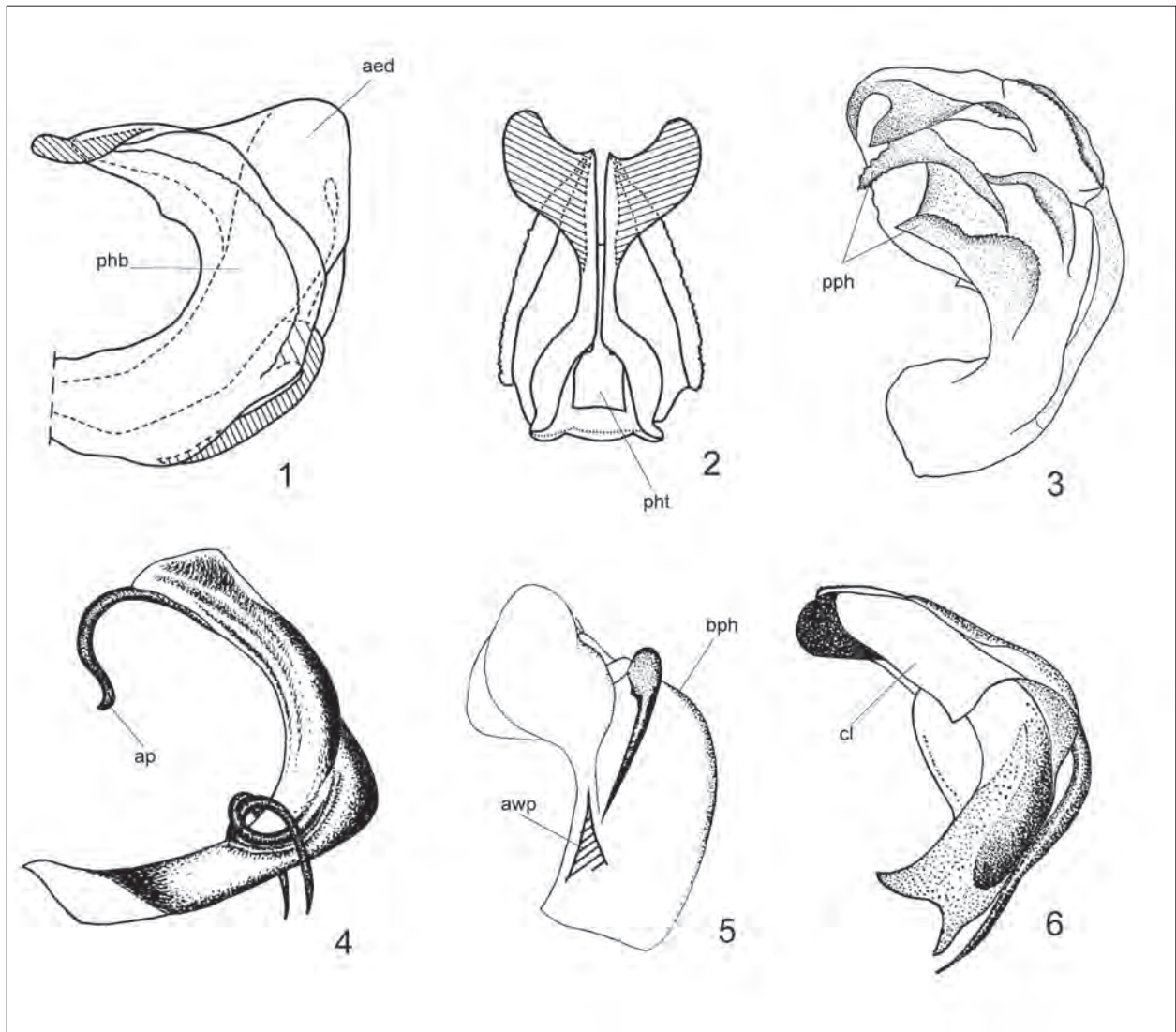


Plate 9. 1, *Mycterodus idomeneus* Dlabola, penis, lateral view (after Gnezdilov & Drosopoulos, 2005); 2, same, caudal view (after Gnezdilov & Drosopoulos, 2005); 3, *Mycterodus lobatus* Logvinenko, penis, lateral view (after Logvinenko, 1968, modified); 4, *Granum pooti* (Dlabola), penis, lateral view (after Dlabola, 1989, modified); 5, *Scorpaster emersum* (Dlabola), penis, lateral view (after Dlabola, 1981a, modified); 6, *Libanissus trispinatum* (Dlabola), penis, lateral view (after Dlabola, 1985, modified).

Abbreviations: aed — aedeagus; phb — phallobase; pht — phallotrema; pph — lateral processes of phallobase; ap — apical process of phallobase; awp — awl-shaped process of phallobase; bph — bulbous phallobase; cl — collar around phallotrema.

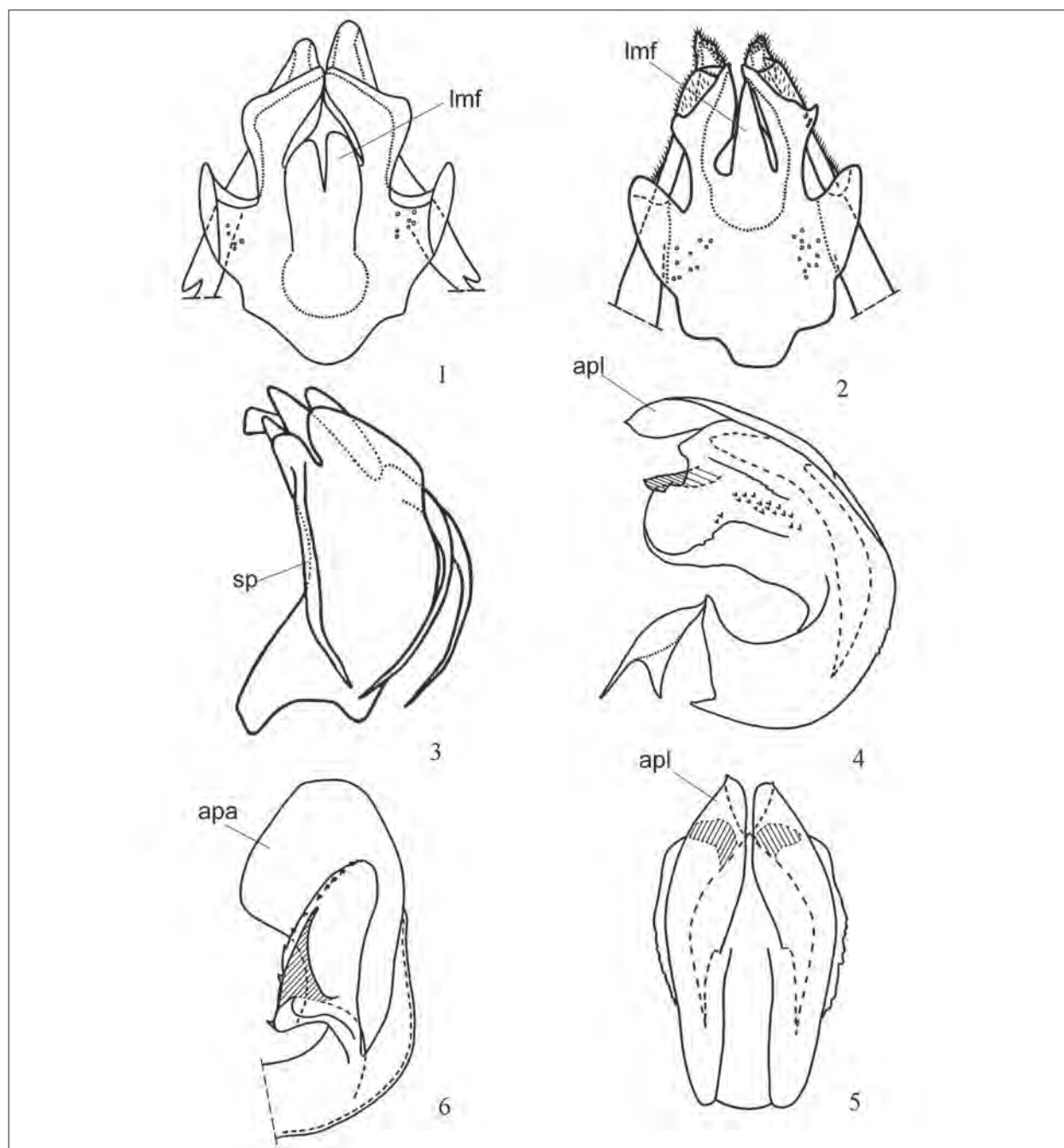


Plate 10. 1, *Latematium latifrons* (Fieber), posterior connective lamina of gonapophyses IX, dorsal view (after Gnezdilov, 2002c); 2, *Pamphylum cypriacum* (Dlabola), posterior connective lamina of gonapophyses IX, dorsal view (after Gnezdilov & Wilson, 2007a); 3, *Phasmena breviuscula* Emeljanov, penis, lateral view (after Emeljanov, 1978, modified); 4, *Kervillea coronata* (Logvinenko), penis, lateral view (after Gnezdilov, 2002b); 5, same, ventral view (after Gnezdilov, 2002b); 6, *Tshurtshurnella uvarovi* Gnezdilov, penis, lateral view (after Gnezdilov, 2002d).

Abbreviations: lmf — lobes of median field of posterior connective lamina of gonapophyses IX; sp — subapical process of phallobase; apa — apical process of aedeagus; apl — apical process of dorso-lateral phallobase lobe.

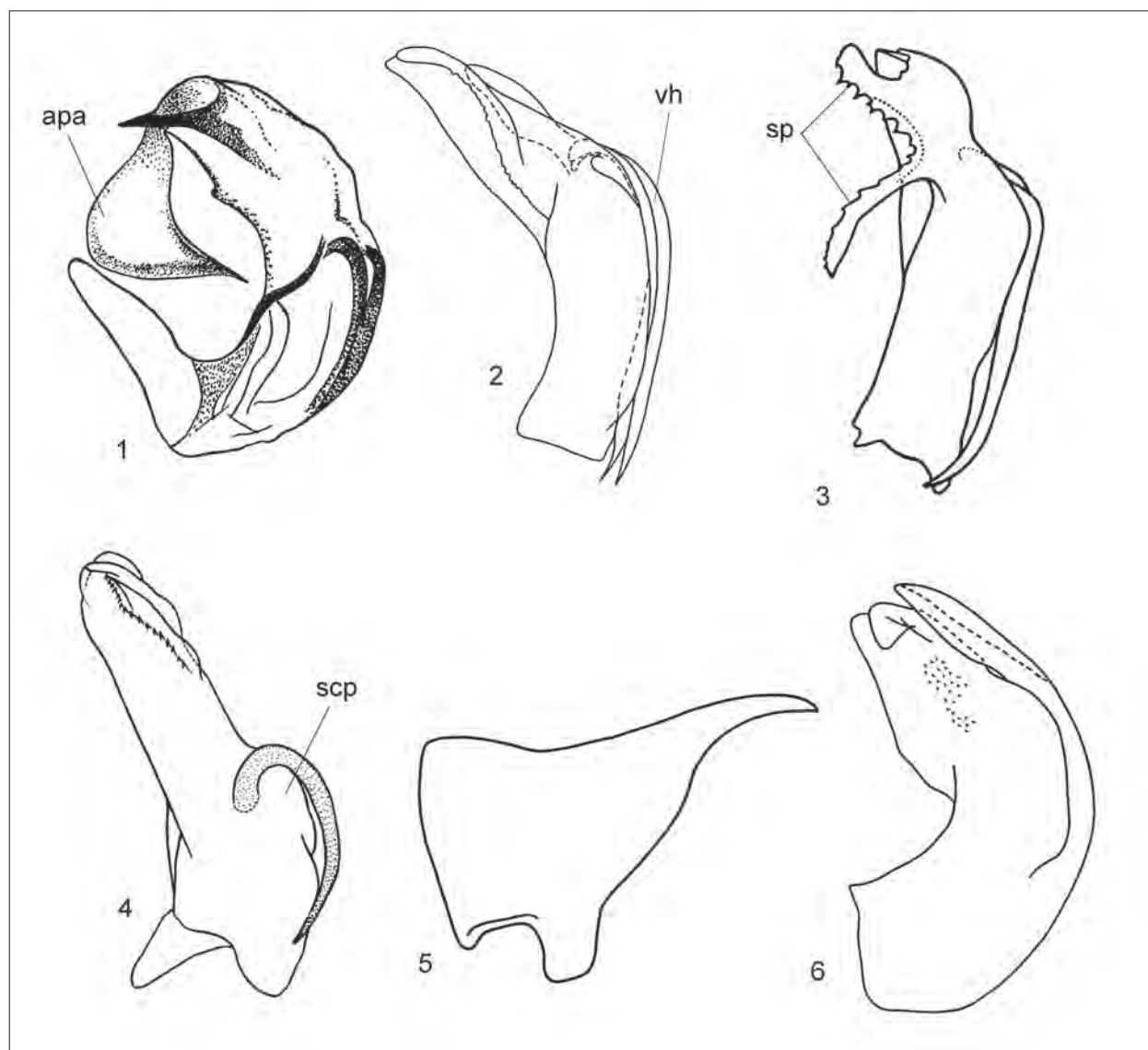


Plate 11. 1, *Cavatorium bispinatum* Dlabola, penis, lateral view (after Dlabola, 1980a, modified); 2, *Anatolodus pictifrons* (Melichar), penis, lateral view (after Gnezdilov, 2002a); 3, *Celyphoma coelimontana* Emeljanov, penis, lateral view (after Emeljanov, 1978, modified); 4, *Inflatodus parvus* (Logvinenko), penis, lateral view (after Logvinenko, 1977b, modified); 5, *Lindbergatium punctulifrons* (Lindberg), style, lateral view (after Lindberg, 1964, modified); 6, *Corymbius tekirdagicus* (Dlabola), phallobase, lateral view (after Gnezdilov, 2002b).

Abbreviations: apa — apical process of aedeagus; scp — semicircular process under ventral aedeagal hook; sp — subapical process of phallobase; vh — ventral aedeagal hook.

KEY TO WESTERN PALAEARCTIC ISSID GENERA (IMAGO)

1. Metope with horizontal transverse carina in its upper part (Pl. 13, figs a–d). Subtribe Issina 2
 - Metope without such horizontal transverse carina in its upper part (Pl. 14, fig. c) 3
2. Fore wings with hypocostal plate. Phallobase with long flattened dorso-ventrally subapical lobe (Pl. 8, fig. 3) ... ***Latissus* Dlabola**
 - Fore wings without hypocostal plate. Phallobase without such subapical lobe ***Issus* Fabricius**
3. Median field of posterior connective lamina of gonapophyses IX strongly protruding, usually in shape of process turned basally (Pl. 7, fig. 1). Subtribe Agalmatiina. For external view see the plates 14–16 4
 - Median field of posterior connective lamina of gonapophyses IX not protruding in shape of process (Pl. 7, fig. 4). Subtribe Hysteropterina 8
4. First metatarsomere usually with only 2 intermediate spines apically. For external view see the plate 14, figs a–c ***Agalmatium* Emeljanov**
 - First metatarsomere with 5–7 intermediate spines apically (Pl. 5, fig. 3) 5
5. Hind wings reach pygofer. For external view see the plate 15 ***Iberanum* Gnezdilov**
 - Hind wings rudimentary 6
6. Metope rather convex, with distinct median and sublateral carinae joined at its upper margin (Pl. 14, fig. e). Fore wings short and wide (Pl. 14, fig. f) ***Clybeccus* Gnezdilov**
 - Metope flat, with only median carina distinct (Pl. 16, figs c, d). Fore wings longer (Pl. 16, figs b, e) 7
7. Capitulum of style with reduced lateral tooth (Pl. 11, fig. 5). Gonopods without keels. For external view see the plate 16, figs a–c ***Lindbergatium* Dlabola**
 - Capitulum of style with a distinct lateral tooth. Gonopods with semicircular keels. For external view see the plate 16, figs d–f ***Tingissus* Gnezdilov**
8. Hind wings well developed, 3-lobed ***Eusarima* Yang**

[The genus is placed in the subtribe Hysteropterina provisionally. The subtribal system of Oriental genera is not developed].

 - Hind wings more or less reduced, never 3-lobed 9
9. Fore wings with indistinct claval suture (Pl. 45, fig. a) ... ***Pseudohemisphaerius* Melichar**
 - Fore wings with distinct claval suture 10
10. Lateral parts of metope horn-shaped (Pl. 20, figs d–f). Hind margin of female abdominal sternum V with large projection ***Bootheca* Emeljanov**
 - Metope without horn-shaped projections, female abdominal sternum V without projection 11
11. Metope and coryphe joined at obtuse angle (in lateral view), metope well visible from above (Pl. 17, figs e, f), with characteristic longitudinal black stripe medially (Pl. 17, fig. d) ***Alloscelis* Kusnezov**
 - Metope and coryphe joined at nearly right or acute angle (in lateral view), metope not visible from above, without black stripe medially 12
12. Hind tibia without lateral spines ***Sfaxia* Bergevin**
 - Hind tibia with 1–3 lateral spines 13
13. Metope with transverse carina in shape of wide “V” letter medially (Pl. 20, fig. c) ***Brachyprosopa* Kusnezov**
 - Metope without such V-shaped transverse carina medially 14
14. Abdominal sternites IV–VI each with pair of large sensory pits medially. Phallobase with pair of lobe-shaped processes proximally (Pl. 8, fig. 6). For external view see the plate 36 ***Lethierium* Dlabola**
 - Abdominal sternites IV–VI without sensory pits. Phallobase of another structure 15
15. Phallobase in shape of distinctive “tubular collar” apically, with strongly curved ventral hooks of aedeagus (Pl. 8, figs 1, 2). For external view see the plates 26 and 27 ***Falcidius* Stål**
 - Phallobase without “tubular collar” apically, ventral hooks of aedeagus of another shape 16
16. Metope with dark brown or black bands or spots (Pl. 35, figs f, g). Fore wings narrowing apically – nearly oval (Pl. 35, fig. e) ***Mulsantereum* Gnezdilov**
 - Metope without such bands or spots. If metope with bands – fore wings widening apically (Pl. 43, fig. b) ... 17
17. Metope usually with median and sublateral carinae joined below its upper margin (Pl. 22, fig. h, Pl. 31, fig. d, Pl. 40, Pl. 53, fig. d) 18
 - Metope with median and sublateral carinae joined at its upper margin 21
18. Metope often with characteristic turned “V”-shaped band (Pl. 40). Aedeagus usually with characteristic well exposed apical processes and large phallosome (Pl. 9, figs 1, 2) ***Mycterodus* Spinola**
 - Metope usually without turned “V”-shaped band. Aedeagus without such apical processes and phallosome 19

19. First bifurcation of radial vein on fore wings starts almost from the basal cell, median simple, cubitus anterior with 2 branches (Pl. 22, fig. f) **Caepovultus Gnezdilov & Wilson**
 - First bifurcation of radial vein on fore wings starts from the common stem on a distance from the basal cell, median with 3 branches, cubitus anterior simple (Pl. 31, fig. e, Pl. 53, fig. e) 20
20. Body (head with fore wings) rather wide (in dorsal view) (Pl. 53, fig. f). Fore wings with radius with 2 branches (Pl. 53, fig. e) **Zopherisca Emeljanov**
 - Body more narrow (in dorsal view) (Pl. 31, fig. f). Fore wings with radius with 3 branches (Pl. 31, fig. e) **Kovacsiana Synave**
21. Fore wings with hypocostal plate 22
 - Fore wings without hypocostal plate 33
22. Hind tibia with single lateral spine 23
 - Hind tibia with two lateral spines 25
23. Hind wings well developed, expand to pygofer. For external view see the plate 19, figs d–f. **Bergevinium Gnezdilov**
 - Hind wings rudimentary 24
24. Fore wings rather short and wide (Pl. 47, fig. b). Aedeagus with pair of short ventral hooks. Female anal tube short, truncate apically **Tautoprosopa Emeljanov**
 - Fore wings longer (Pl. 28, figs b, e). Aedeagus with pair of long ventral hooks. Female anal tube elongate **Fieberium Dlabola**
25. Fore wings with characteristic relief, sometimes brown, venation (Pl. 25, figs a, b). Phallobase with long apical process turned down (Pl. 9, fig. 4) **Granum Gnezdilov**
 - Fore wings with another kind of venation. Phallobase without such process 26
26. Each gonoplac with a keel bearing teeth (Pl. 5, fig. 2) or with a long spine 27
 - Gonoplacs without teeth or spines 28
27. Metope with smoothed carinae (Pl. 41, fig. c). Coryphe transverse (Pl. 41, fig. b). Aedeagus with ventral hooks directed basally. Each gonoplac with a keel bearing two teeth (Pl. 5, fig. 2) **Palaeolithium Gnezdilov**
 - Metope with distinct carinae (Pl. 53, fig. c). Coryphe elongate (Pl. 53, fig. a). Aedeagus with ventral hooks directed apically. Each gonoplac with a long spine-shaped process **Webbisanus Dlabola**
28. Fore wings widening apically (in lateral view) (Pl. 34, figs a, d, Pl. 43, fig. b) 29
 - Fore wings not widening – nearly square or they narrowing apically (in lateral view) (Pl. 24, figs b, e, Pl. 29, figs a, f, Pl. 41, fig. f, Pl. 42, figs b, e) 30
29. Coryphe short (Pl. 34, figs c, f). Median field of posterior connective lamina of gonapophyses IX with two fold-shaped lobes situated closely each to other (Pl. 10, fig. 1) **Latematium Dlabola**
 - Coryphe longer (Pl. 43, fig. a). Median field of posterior connective lamina of gonapophyses IX with single elongate lobe (Pl. 10, fig. 2) **Pamphylium Gnezdilov & Wilson**
30. Each fore wing with 3 characteristic brown dots (Pl. 41, figs e, f). Hind wings reach pygofer. Male anal tube with ventral side concave apically (Pl. 6, fig. 8) **Numidius Gnezdilov, Guglielmino & D'Urso**
 - Fore wings without such brown dots. Hind wings rudimentary. Male anal tube without such concavity 31
31. Coryphe rather elongate, often with median carina, anterior margin angulately protruding (Pl. 24, figs a, f). Costal margin of fore wings angulately convex (Pl. 24, figs b, e) **Conosimus Mulsant & Rey**
 - Coryphe transverse, without median carina, anterior margin convex (Pl. 29, figs b, e, Pl. 42, figs a, d). Costal margin of fore wings nearly straight or widely convex (Pl. 29, figs a, f, Pl. 42, figs b, e) 32
32. Fore wings wide – nearly square (Pl. 29, figs a, f). Median field of posterior connective lamina of gonapophyses IX with two lobes apically (Pl. 7, fig. 3) **Hysteropterum Amyot & Serville**
 - Fore wings more narrow (Pl. 42, figs b, e). Median field of posterior connective lamina of gonapophyses IX with single lobe apically **Palmallorcus Gnezdilov**
33. Hind wings almost as long as fore wings. For external view see the plate 33 **Latilica Emeljanov**
 - Hind wings rudimentary 34
34. Metope with weak transverse elevation between traces of sublateral carinae medially (Pl. 47, fig. d). For external view see the plate 47, figs e, f **Scorlupella Emeljanov**
 - Metope without such transverse elevation medially 35
35. Phallobase bulbous (convex in lateral view) under ventral aedeagal hooks, with pair of awl-shaped processes proximally (Pl. 9, fig. 5). For external view see the plate 46, figs d–f **Scorlupaster Emeljanov**
 - Phallobase not bulbous under ventral aedeagal hooks, without awl-shaped processes proximally 36
36. Fore wings short, reaching only pygofer (Pl. 43, figs e, f) **Pentissus Dlabola**
 - Fore wings longer, exceed in length abdomen 37
37. Fore wings with radius with 3 branches 38
 - Fore wings with radius with 2 branches 39

38. Each dorso-lateral phallobase lobe with narrow serrated subapical process (Pl. 11, fig. 4). Aedeagus with pair of relatively short ventral hooks arose in its lower part. For external view see the plate 30 ***Inflatodus Dlabola***
- Dorso-lateral phallobase lobes with another kind of processes (Pl. 8, fig. 5). Aedeagus with long ventral hooks. For external view see the plates 48 and 49 ***Semissus Melichar***
39. First metatarsomere with 1–2 intermediate spines apically 40
- First metatarsomere with 4–7 intermediate spines apically 42
40. Apical processes of aedeagus with enlarged apices (Pl. 10, fig. 6). For external view see the plates 51 and 52 ***Tshurtshurnella Kusnezov***
- Apical processes of aedeagus more narrow 41
41. Body massive, fore wings widening apically (Pl. 25, figs e, f). Each dorso-lateral phallobase lobe with small rounded subapical process (Pl. 11, fig. 6). Aedeagus with pair of very short ventral hooks ***Corymbius Gnezdilov***
- Body more narrow (Pl. 18). Dorso-lateral phallobase lobes with narrow serrated subapical process (Pl. 11, fig. 2). Aedeagus with pair of long ventral hooks ***Anatolodus Dlabola***
42. Fore wings with wide subcostal area (Pl. 23, fig. e, Pl. 31, fig. b) 43
- Fore wings with rather narrow subcostal area 44
43. Apical processes of aedeagus in shape of long projections far exceeding phallobase margin (Pl. 11, fig. 1) ***Cavatorium Dlabola***
- Apical processes of aedeagus without such long projections ***Iranodus Dlabola***
44. Upper margin of metope often trapezially concave, with protruding upper angles (Pl. 21, figs c, f, h) ***Bubastia Emeljanov***
- Upper margin of metope straight or concave, upper angles not protruding 45
45. Dorso-lateral phallobase lobes fused, enlarged apically, in shape of a collar around the phallotrema (Pl. 9, fig. 6). For external view see the plate 37 ***Libanissum Dlabola***
- Phallobase without collar around the phallotrema . . 46
46. Aedeagus with pair of ventral hooks 47
- Aedeagus without ventral hooks 49
47. Pro- and mesonotum usually with median carina. Dorso-lateral phallobase lobes never have branchy subapical processes. For external view see the plate 45, figs d–f ***Quadriwa Ghauri***
- Pro- and mesonotum usually without median carina. Dorso-lateral phallobase lobes often with branchy subapical processes. For external view see the plates 23, figs a–c and 44 48
48. Fore wings with median with 2–3 branches. Hind tibia with 1–2 lateral spines. Each dorso-lateral phallobase lobe with 1–2, sometimes branchy, subapical processes (Pl. 11, fig. 3). For external view see the plate 23, figs a–c ***Celyphoma Emeljanov***
- Fore wings with median with 2 branches. Hind tibia with single lateral spine. Each dorso-lateral phallobase lobe with single, sometimes branchy, subapical process (Pl. 10, fig. 3). For external view see the plate 44 ***Phasmena Melichar***
49. Coryphe long and narrow (Pl. 19, fig. a). Each dorso-lateral phallobase lobe with large hook-shaped subapical process (Pl. 8, fig. 4) ***Anatonga Emeljanov***
- Coryphe rather wide and relatively short. Dorso-lateral phallobase lobes without hook-shaped subapical processes 50
50. Dorso-lateral phallobase lobes without processes or teeth. For external view see the plate 46, figs a–c ***Rhissolepus Emeljanov***
- Each dorso-lateral phallobase lobe with long apical process narrowing apically or with apical tooth (Pl. 10, figs 4, 5). For external view see the plate 32 ***Kervillea Bergevin***

CHECKLIST OF WESTERN PALAEARCTIC ISSIDAE WITH KEY TO SUBGENERA

Family Issidae Spinola, 1839

Subfamily Issinae Spinola, 1839

Tribe Issini Spinola, 1839

Subtribe Issina Spinola, 1839

Genus *Issus* Fabricius

Fabricius, 1803: 99. Type species: *Cercopis coleoptrata* Fabricius, 1781.

Archissus Sergel, 1986a: 49 (Type species: *Issus canariensis* Melichar, 1906), syn. fide Gnezdilov 2003a: 26.

Composition and distribution: 32 species distributed mostly in the Mediterranean Basin.

The genus is in need of revision. The validity of some old names is dubious. Remane (1985) stated that some species from Canary Islands do not have significant differences in morphology but were described in the hope of further study.

Issus abdunnouri Dlabola

Issus abdunnouri Dlabola, 1987c: 301.

Distribution: Israel, Lebanon, Turkey.

Identification: Dlabola 1987c.

Issus afrolauri Sergel

Issus afrolauri Sergel, 1986d: 79.

Distribution: Algeria.

Identification: Sergel 1986d.

Issus analis Brullé

Issus analis Brullé, 1832: 107.

Distribution: Greece.

Identification: Brullé 1832.

Note: Uncertain species known only from original description.

Issus bellardi Melichar

Issus bellardi Melichar, 1906: 188.

Distribution: Cyprus, ?Greece (Haupt 1928).

Identification: Melichar 1906.

Note: Uncertain species known only from original description.

Issus bimaculatus Melichar

Issus canariensis var. *bimaculatus* Melichar, 1906: 191.

Issus dispersus Lindberg, 1954: 164, syn. fide Remane 1985: 81.

Distribution: Spain (Canary Islands: Tenerife I.).

Identification: Remane 1985.

Issus cagola Remane

Issus cagola Remane, 1985: 42.

Distribution: Spain (Canary Islands: La Gomera I., Hierro I.).

Identification: Remane 1985.

Biology: Remane 1985.

Issus cagracala Remane

Issus cagracala Remane, 1985: 48.

Distribution: Spain (Canary Islands: Gran Canaria I.).

Identification: Remane 1985.

Issus cahipi Remane

Issus cahipi Remane, 1985: 43.

Distribution: Spain (Canary Islands: Hierro I.).

Identification: Remane 1985.

Biology: Remane 1985.

Issus canalaurisi Sergel

Issus canalaurisi Sergel, 1986b: 60.

Distribution: Spain (Canary Islands: Tenerife I.).

Identification: Sergel 1986b.

Issus canariensis Melichar

Issus canariensis Melichar, 1906: 190.

Distribution: Spain (Canary Islands: Tenerife I.).

Identification: Remane 1985.

Issus capala Remane

Issus capala Remane, 1985: 47.

Distribution: Spain (Canary Islands: La Palma I.).

Identification: Remane 1985.

Issus capapi Remane

Issus capapi Remane, 1985: 46.

Distribution: Spain (Canary Islands: La Palma I.).

Identification: Remane 1985.

Issus cinereus (Olivier)

Fulgora cinerea Olivier, 1791: 577.

Distribution: France.

Identification: Olivier 1791.

Note: Uncertain species known only from original description.

Issus climacus Fieber

Issus climacus Fieber, 1876: 266 [separata 1876: 256].

Distribution: Portugal, ?Spain (Sergel 1986c).

Identification: Gnezdilov, Soulier-Perkins & Bourgoin 2011.

Issus coleoptratus (Fabricius)

Cercopis coleoptrata Fabricius, 1781: 330.

Issus quadriguttatus Walker, 1851: 366, syn. fide Gnezdilov, Drosopoulos & Wilson 2004: 217.

Distribution: Algeria, Austria, Belgium, Bulgaria, Czech Republic, France including Corsica I., Germany, Great Britain, Greece, Hungary, Ireland, Italy including Sardinia I. and Sicily I., Luxembourg, Moldova, The Netherlands, Poland, ?Portugal (de Seabra 1930), Romania, Slovakia, Slovenia, Spain, Switzerland.

Identification: Holzinger, Kammerlander & Nickel 2003.

Biology: Holzinger, Kammerlander & Nickel 2003, Nickel 2003, Whitehead & Key 2010, Badmin 2010.

Note: The species was also described as *Issus quadriguttatus* after a female from Hong Kong (Walker 1851). Probably that was an error label. The species is authentically known from St. Helene Island in Atlantic (Synave 1976).

Photos (Pl. 12, figs a–c, Pl. 13, fig. b): France (BMNH): ♂, frontal, dorsal and lateral views; ♀, lateral view.

Issus distinguendus Lindberg

Issus distinguendus Lindberg, 1954: 164.

Distribution: Spain (Canary Islands: Lanzarote I., Fuerteventura I.).

Identification: Remane 1985.

Biology: Lindberg 1954.

Issus fieberi Melichar

Issus fieberi Melichar, 1906: 191.

Distribution: Cyprus.

Identification: Melichar 1906.

Note: Uncertain species known only from original description.

Issus frontalis Fieber

Issus frontalis Fieber, 1876: 264 [separata 1876: 254].

Issus novaki Dlabola, 1959: 152, syn. fide Gnezdilov, Soulier-Perkins & Bourgoin 2011: 26.

Issus truncatus sensu Holzinger, Kammerlander & Nickel 2003: 451.

Distribution: Austria, Croatia, France, Italy, Serbia.

Identification: Holzinger, Kammerlander & Nickel 2003, Gnezdilov, Soulier-Perkins & Bourgoin 2011.

Issus gracalama Remane

Issus gracalama Remane, 1985: 78.

Distribution: Spain (Canary Islands: Gran Canaria I.).

Identification: Remane 1985.

Biology: Remane 1985.

Issus gratehigo Remane

Issus gratehigo Remane, 1985: 88.

Distribution: Spain (Canary Islands: Gran Canaria I., Tenerife I., La Gomera I., Hierro I.).

Identification: Remane 1985.

Biology: Remane 1985.

Issus hidipus Remane

Issus hidipus Remane, 1985: 83.

Distribution: Spain (Canary Islands: Hierro I.).

Identification: Remane 1985.

Biology: Remane 1985.

Issus kabylicus Dlabola

Issus kabylicus Dlabola, 1989: 22.

Distribution: Algeria.

Identification: Dlabola 1989.

Issus lauri Ahrens

Issus lauri Ahrens, 1814: Pl.19.

Distribution: Albania, ?Bosnia and Herzegovina (Fieber 1876), Croatia, France (Corsica I.), Greece including Corfu I., Italy including Sicily I., ?Montenegro (Horváth 1918), ?Portugal (Puton 1886b), ?Serbia (Divac 1907), ?Spain (Puton 1886b).

Identification: Holzinger, Kammerlander & Nickel 2003.

Biology: Holzinger, Kammerlander & Nickel 2003.

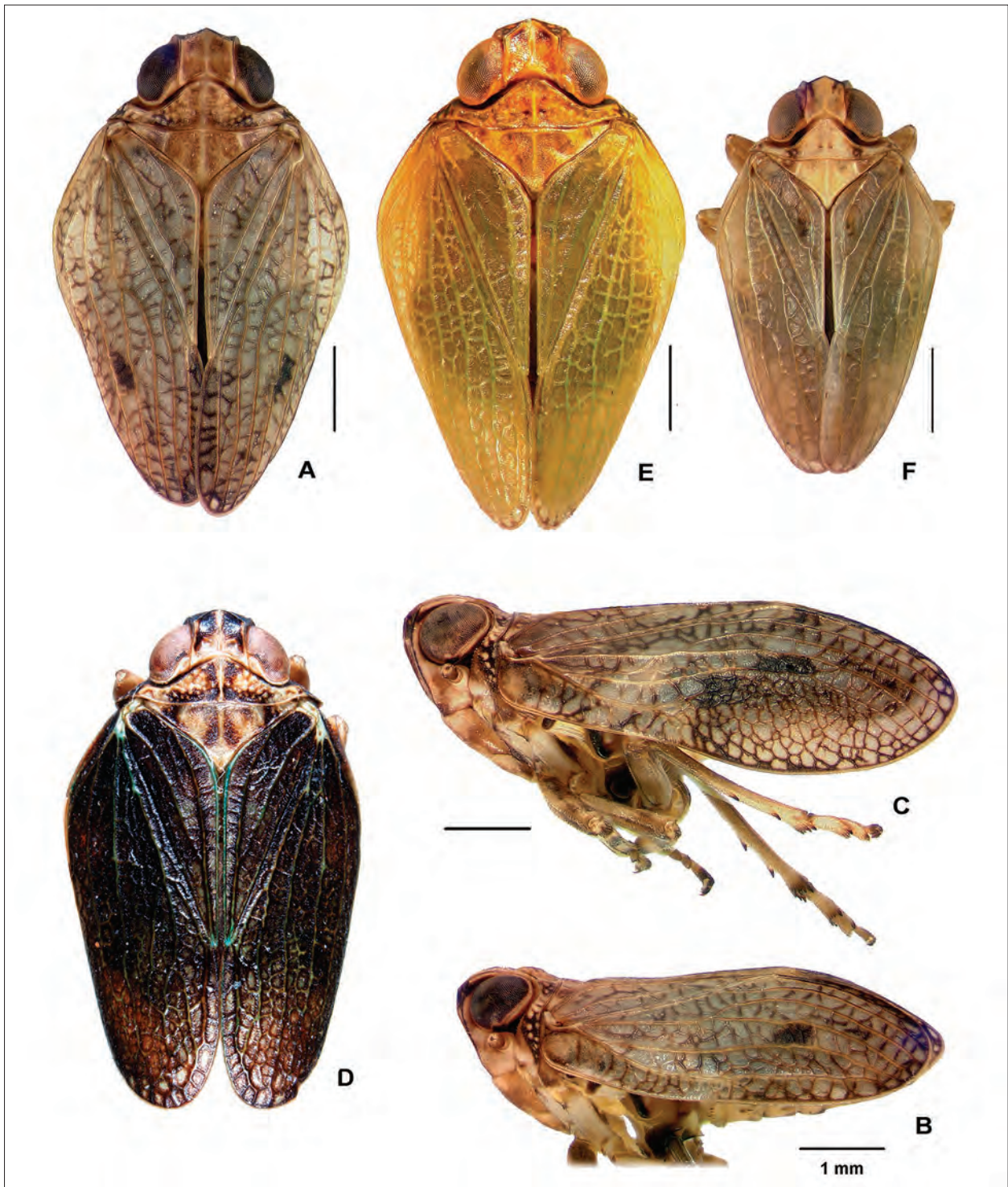


Plate 12. a, *Issus coleoptratus* (Fabricius), male, dorsal view; b, same, male, lateral view; c, same, female, lateral view; d, *Issus lauri* Ahrens, female (melanistic form), dorsal view; e, same, male, dorsal view; f, *Issus maderensis* Lindberg, male, dorsal view.

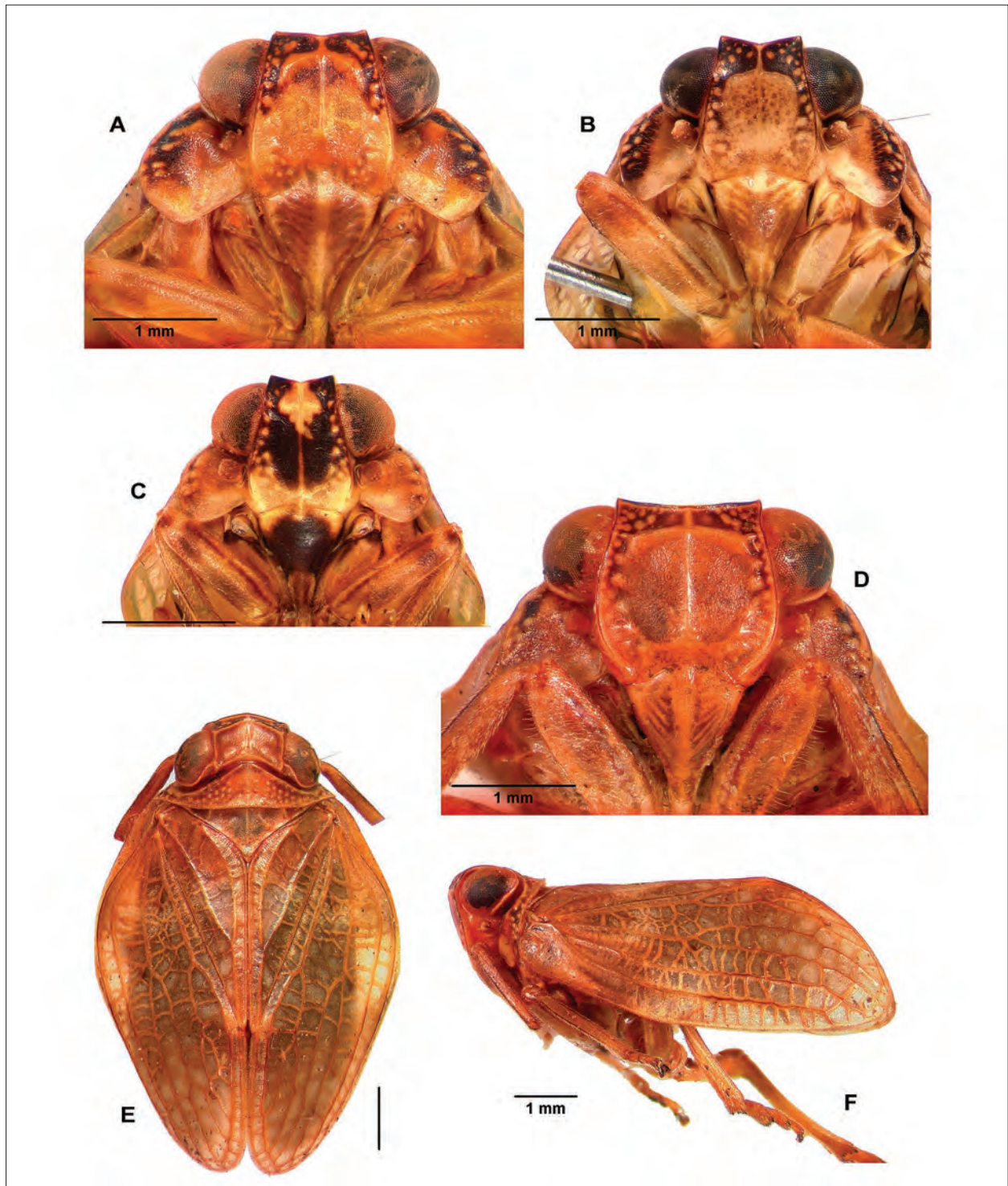


Plate 13. a, *Issus lauri* Ahrens, female, frontal view; b, *Issus coleoptratus* (Fabricius), male, frontal view; c, *Issus maderensis* Lindberg, male, frontal view; d, *Latissus dilatatus* (Fourcroy), female, frontal view; e, same, dorsal view; f, same, lateral view.

Photos (Pl. 12, figs d, e, Pl. 13, fig. a): Croatia (BMNH): ♀, frontal view; Italy, Sicily I. (BMNH): ♂, dorsal view; Greece, Corfu I. (MNH): dorsal view.

***Issus maderensis* Lindberg**

Issus maderensis Lindberg, 1954: 161.

Distribution: Portugal (Madeira I.).

Identification: Remane 1985.

Photos (Pl. 12, fig. f, Pl. 13, fig. c): Portugal, Madeira I. (BMNH): ♂, frontal and dorsal views.

***Issus muscaeformis* (Schrank)**

Cicada muscaeformis Schrank, 1781: 253.

Issus truncatus Fieber, 1876: 265 [separata 1876: 255], syn. fide Melichar 1906: 192.

Issus frontalis sensu Holzinger, Kammerlander & Nickel 2003: 449.

Distribution: Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Italy, Moldova, Montenegro, The Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine including Crimea.

Identification: Holzinger, Kammerlander & Nickel 2003.

Biology: Holzinger, Kammerlander & Nickel 2003, Nickel 2003, Whitehead & Key 2010.

***Issus padipus* Remane**

Issus padipus Remane, 1985: 84.

Distribution: Spain (Canary Islands: La Palma I.).

Identification: Remane 1985.

Biology: Remane 1985.

***Issus paladitus* Remane**

Issus paladitus Remane, 1985: 90.

Distribution: Spain (Canary Islands: La Palma I.).

Identification: Remane 1985.

***Issus palama* Remane**

Issus palama Remane, 1985: 79.

Distribution: Spain (Canary Islands: La Palma I.).

Identification: Remane 1985.

***Issus pallipes* Lucas**

Issus pallipes Lucas, 1853: 70.

Distribution: ?Algeria (Fieber 1872), Greece (Crete I.).

Identification: Lucas 1853.

Note: Uncertain species known only from original description.

***Issus patruelis* Stål**

Issus patruelis Stål, 1861: 210.

Distribution: Algeria, ?Morocco (Gnezdilov 2002c), ?Tunisia (Linnavuori 1965).

Identification: Stål 1861.

Note: Uncertain species known only from original description.

***Issus pospisili* Dlabola**

Issus muscaeformis pospisili Dlabola, 1958: 322.

Distribution: Armenia, Azerbaijan, Georgia, Greece, Russia (Karachay-Cherkess Republic, Krasnodar Territory).

Identification: Dlabola 1958.

***Issus rarus* Lindberg**

Issus rarus Lindberg, 1954: 165.

Distribution: Spain (Canary Islands: Tenerife I.).

Identification: Remane 1985.

Genus *Latissus* Dlabola

Dlabola, 1974c: 299. Type species: *Cicada dilatata* Fourcroy, 1785.

Composition and distribution: Monotypical genus widely distributed in Mediterranean Europe excluding Iberian Peninsula.

***Latissus dilatatus* (Fourcroy)**

Cicada dilatata Fourcroy, 1785: 193.

Issus luteus Fieber, 1876: 260 [separata 1876: 250], syn. fide Puton 1899: 105.

Distribution: Albania, Croatia, Montenegro, France, Greece, Italy including Sardinia I. and Sicily I., Slovenia.

Identification: Holzinger, Kammerlander & Nickel 2003.

Biology: Holzinger, Kammerlander & Nickel 2003.

Photos (Pl. 13, figs d–f): Italy, Liguria (NMWC): ♀, frontal, dorsal and lateral views.

Subtribe Agalmatiina Gnezdilov, 2002**Genus *Agalmatium* Emeljanov**

Emeljanov, 1971: 624. Type species: *Cercopis grylloides* Fabricius, 1794.

Composition and distribution: 6 species distributed mostly in the Mediterranean Basin, two of these (*A. bilobum* and *A. flavescens*) are known also from Central Europe and Caucasus. *A. bilobum* was introduced also to USA (California) (Gnezdilov & O'Brien 2006). The genus is in need of revision.

***Agalmatium abruptum* (Bergevin)**

Hysteropterum abruptum Bergevin, 1920a: 159.

Distribution: ?France (Dlabola 1989), Morocco.

Identification: Bergevin 1920a, Dlabola 1984.

***Agalmatium bilobum* (Fieber)**

Hysteropterum bilobum Fieber, 1877: 16.

Hysteropterum angustum Melichar, 1906: 130, syn. fide Dlabola 1980a: 234.

Hysteropterum beameri Doering, 1958: 101, syn. fide Gnezdilov & O'Brien 2006: 51.

Hysteropterum dubium Melichar, 1906: 131, syn. fide Dlabola 1984: 29.

Hysteropterum inconspicuum Matsumura, 1910: 27, syn. fide Dlabola 1984: 29.

Hysteropterum severini Caldwell & De Long, 1948: 176, syn. fide Gnezdilov & O'Brien 2006: 51.

Distribution: Armenia, Bulgaria, Cyprus, France, Georgia, Greece including islands, Israel, Italy including Sardinia I. and Sicily I., Lebanon, Moldova, Palestine, Portugal, Romania, Russia (Krasnodar Territory), Spain including the Canary Islands, Turkey, Ukraine including Crimea, "former Yugoslavia".

Identification: Holzinger, Kammerlander & Nickel 2003.

Biology: Logvinenko 1975a, Holzinger, Kammerlander & Nickel 2003, Chumak 2005.

Photos (Pl. 14, figs a–c): Portugal (NMWC): ♂, frontal, dorsal and lateral views.

Note: Tishechkin (1988) recorded the species from the Moscow Province in Russia, but it has not been confirmed recently. Temporary occurrence of the species on Wangerooge I. (Germany) was registered in 1960 (Harz 1965, Nickel 2003).

***Agalmatium costale* (Matsumura)**

Hysteropterum costale Matsumura, 1910: 25.

Hysteropterum dubiosum Matsumura, 1910: 23, syn. fide Dlabola 1984: 28.

Distribution: Spain.

Identification: Dlabola 1984.

***Agalmatium curtulum* (Melichar)**

Hysteropterum curtulum Melichar, 1906: 121.

Distribution: Spain.

Identification: Dlabola 1980a.

***Agalmatium flavescens* (Olivier)**

Fulgora flavescens Olivier, 1791: 577.

Cercopis grylloides Fabricius, 1794: 54, syn. fide Melichar 1906: 125.

Hysteropterum euryproctum Kirschbaum, 1868: 56, syn. fide Dlabola 1984: 28.

Hysteropterum orientale Kusnezov, 1926: 282, syn. fide Nast 1987: 631.

Issus dufourii Spinola, 1839: 361, syn. fide Melichar 1906: 125.

Issus liliimaculata O. Costa, 1834: 84, syn. fide Linnavuori 1962: 14.

Issus smymensis Spinola, 1839: 363, syn. fide Melichar 1906: 125.

Distribution: Albania, Armenia, Austria, Bulgaria, France, Georgia, Greece, Hungary, Italy including Sardinia I. and Sicily I., Moldova, Montenegro, Portugal, Romania, Russia (Krasnodar Territory), Serbia, Slovenia, Spain, Turkey, Ukraine (Crimea).

Identification: Holzinger, Kammerlander & Nickel 2003.

Biology: Sacchi 1930, Silvestri 1934, Logvinenko 1975a, Holzinger, Kammerlander & Nickel 2003.

***Agalmatium piceovenosum* (Puton)**

Hysteropterum piceovenosum Puton, 1887: 104.

Distribution: Tunisia.

Identification: Puton 1887.

Genus *Clybeccus* Gnezdilov

Gnezdilov, 2003a: 71. Type species: *Hysteropterum declivum* Dlabola, 1986.

Composition and distribution: Monotypical genus distributed in the Mediterranean Basin.

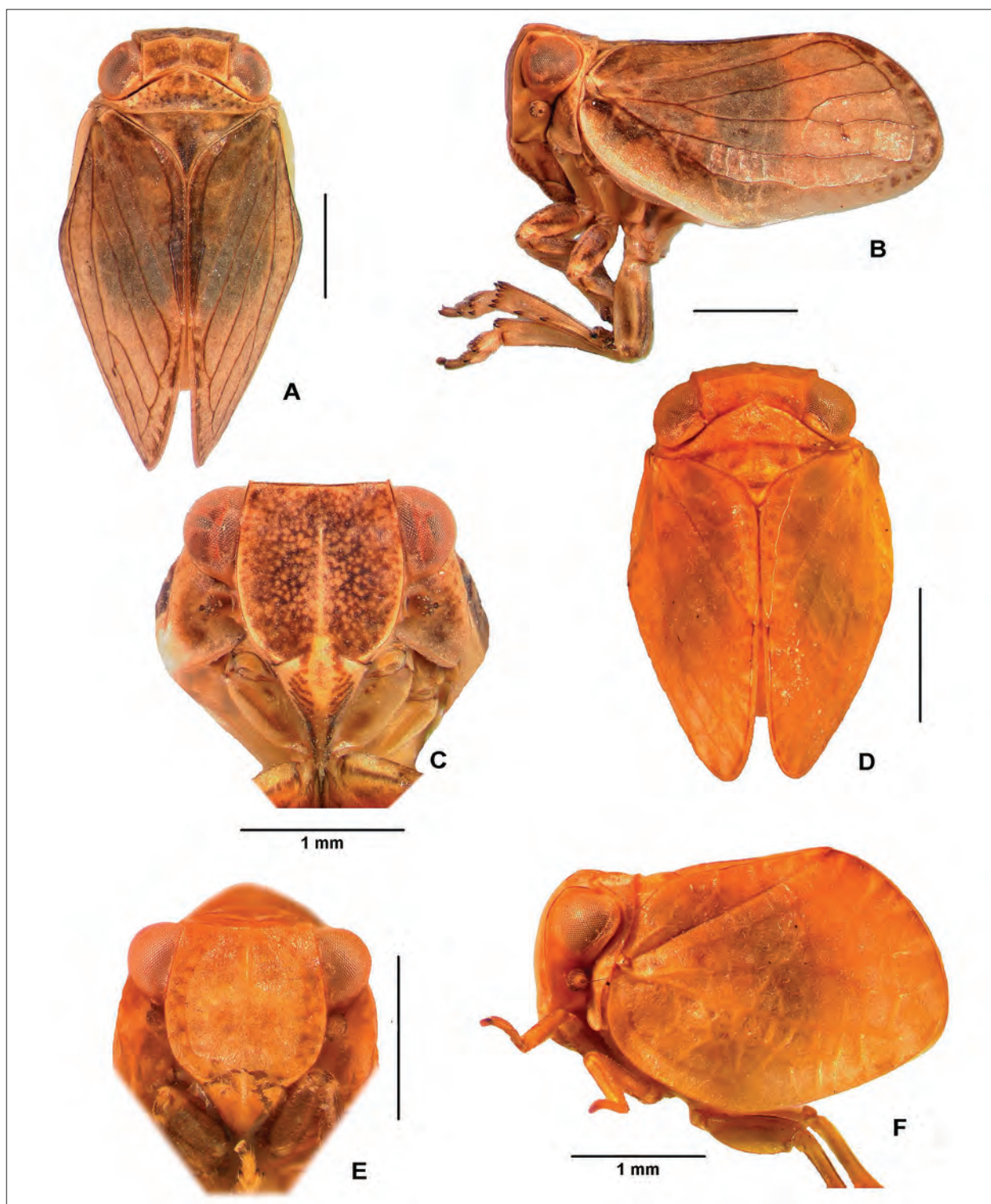


Plate 14. a, *Agalmatium bilobum* (Fieber), male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Clybeccus declivus* (Dlabola), male, dorsal view; e, same, frontal view; f, same, lateral view.

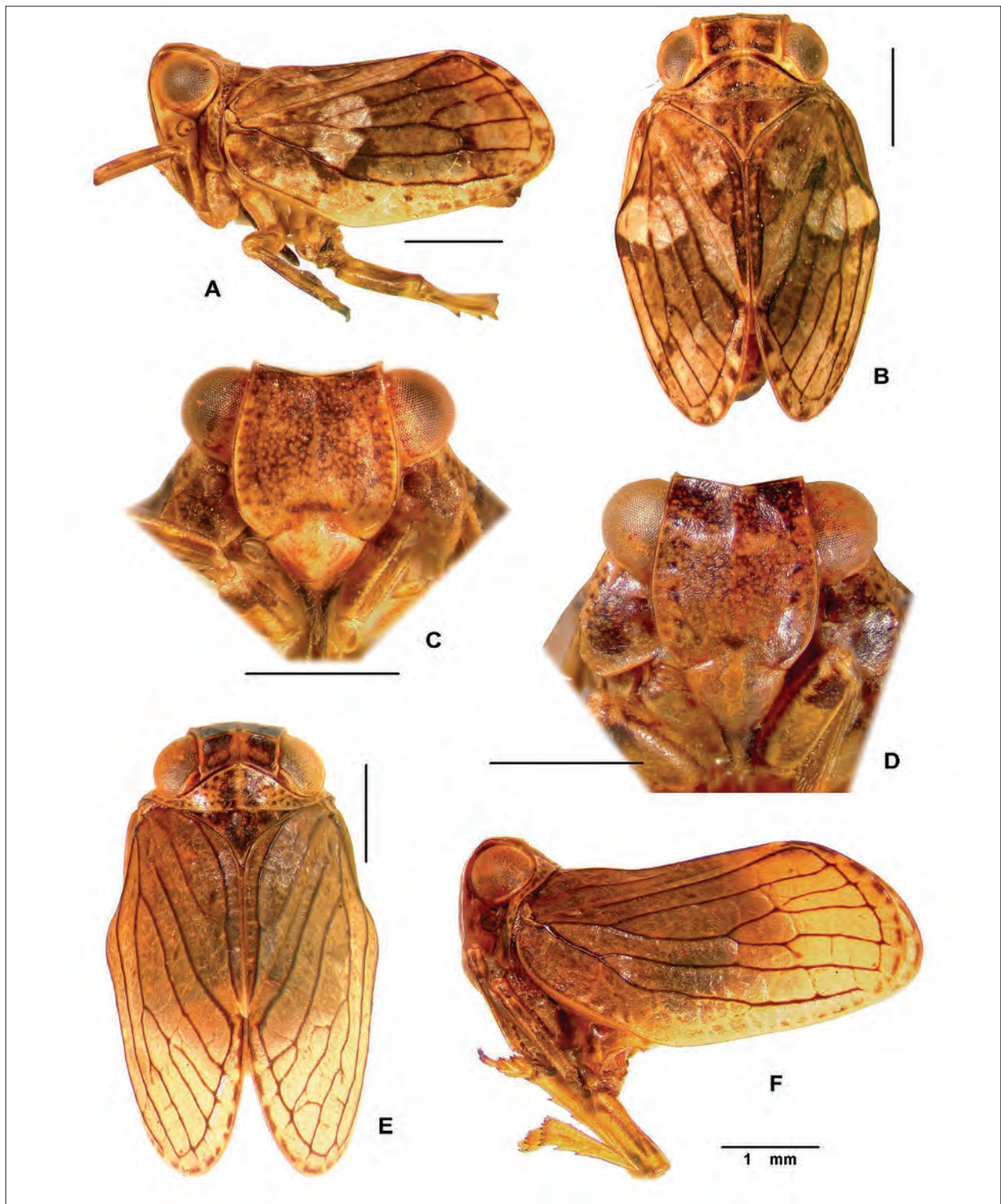


Plate 15. a, *Iberanum dlabolai* Gnezdilov, male, lateral view; b, same, dorsal view; c, same, frontal view; d, *Iberanum fuscovenosum* (Fieber), female, frontal view; e, same, dorsal view; f, same, lateral view.

***Clybeccus declivus* (Dlabola)**

Hysteropterum declivum Dlabola, 1986: 191.

Distribution: Greece (Fourni I., Rhodes I., Crete I.), Italy (Lampedusa I., Pantelleria I., Favignana I., Sicily I.), Malta, Spain, Tunisia.

Identification: Dlabola 1986.

Photos (Pl. 14, figs d–f): ♂: Italy, Lampedusa I. (ZIN): dorsal and lateral views; Greece, Rhodes I. (NMWC): frontal view.

Genus *Iberanum* Gnezdilov

Gnezdilov, 2003a: 74. Type species: *Iberanum dlabolai* Gnezdilov, 2003.

Composition and distribution: 2 species distributed in European Western and Central Mediterranean Basin.

***Iberanum dlabolai* Gnezdilov**

Iberanum dlabolai Gnezdilov, 2003a: 75.

Distribution: Spain.

Identification: Gnezdilov 2003a.

Photos (Pl. 15, figs a–c): Spain, Tarragona (ZIN): ♂, frontal, dorsal and lateral views.

***Iberanum fuscovenosum* (Fieber)**

Hysteropterum fuscovenosum Fieber, 1877: 29.

Iberanum nuragicum Gnezdilov & Mazzoni, 2003: 355, syn. fide Gnezdilov, Soulier-Perkins & Bourgoin 2011: 28.

Distribution: France including Corsica I., Italy (Sardinia I.).

Identification: Gnezdilov & Mazzoni 2003, Gnezdilov, Soulier-Perkins & Bourgoin 2011.

Photos (Pl. 15, figs d–f): France, Corsica I. (MNHN): ♀, frontal, dorsal and lateral views.

Genus *Lindbergatium* Dlabola

Dlabola, 1984: 48. Type species: *Hysteropterum atlasense* Lindberg, 1964.

Composition and distribution: 8 species (one of them with 2 subspecies) distributed in Morocco and Algeria. The genus is in need of revision.

***Lindbergatium atlasense* (Lindberg)**

Hysteropterum atlasense Lindberg, 1964: 57.

Distribution: Morocco.

Identification: Lindberg 1964.

***Lindbergatium battandieri* (Bergevin)**

Hysteropterum battandieri Bergevin, 1923c: 108.

Distribution: Algeria.

Identification: Bergevin 1923c, Dlabola 1984.

***Lindbergatium draense* (Lindberg)**

Hysteropterum draense Lindberg, 1964: 62.

Distribution: Morocco.

Identification: Lindberg 1964, Dlabola 1984.

***Lindbergatium evanescens* (Bergevin)**

Hysteropterum evanescens Bergevin, 1919b: 286.

Hysteropterum s-album Linnavuori, 1965: 40, syn. fide Dlabola 1984: 49.

Distribution: Morocco.

Identification: Bergevin 1919b, Dlabola 1984.

Photos (Pl. 16, figs a–c): Morocco, Melilla (NMWC): ♀ (paratype of *H. s-album*), frontal, dorsal and lateral views.

***Lindbergatium halophilum* (Lindberg)**

Hysteropterum halophilum Lindberg, 1964: 60.

Distribution: Morocco.

Identification: Dlabola 1984.

***Lindbergatium nigrosuturale nigrosuturale* (Lindberg)**

Hysteropterum nigrosuturale Lindberg, 1964: 61.

Distribution: Morocco.

Identification: Dlabola 1984.

***Lindbergatium nigrosuturale aaiunense* (Lindberg)**

Hysteropterum nigrosuturale aaiunense Lindberg, 1965: 14.

Distribution: Morocco.

Identification: Lindberg 1965.

***Lindbergatium punctulifrons* (Lindberg)**

Hysteropterum punctulifrons Lindberg, 1964: 58.

Distribution: Morocco.

Identification: Lindberg 1964.

***Lindbergatium sousense* (Lindberg)**

Hysteropterum sousense Lindberg, 1964: 59.

Distribution: Morocco.

Identification: Lindberg 1964.

Genus *Tingissus* Gnezdilov

Gnezdilov, 2003a: 72. Type species: *Hysteropterum tangirum* Matsumura, 1910.

Composition and distribution: 2 species distributed in Morocco and Iberian Peninsula.

***Tingissus guadarriamense* (Melichar)**

Hysteropterum guadarriamense Melichar, 1906: 126.

Hysteropterum tangirum Matsumura, 1910: 20, syn. fide Gnezdilov 2010: 420.

Distribution: Morocco, Portugal, Spain.

Identification: Gnezdilov 2003a.

Photos (Pl. 16, figs d–f): Portugal (NMWC): ♂, frontal, dorsal and lateral views.

***Tingissus melanophleps* (Fieber)**

Hysteropterum melanophleps Fieber, 1877: 5.

Distribution: ?Portugal (Puton 1875), Spain.

Identification: Dlabola 1984, Gnezdilov, Soulier-Perkins & Bourgoin 2011.

Subtribe Hysteropterina Melichar, 1906**Genus *Alloscelis* Kusnezov**

Kusnezov, 1930: 271. Type species: *Hysteropterum vittifrons* Ivanoff, 1885.

Composition and distribution: Monotypical genus known from the steppe zone of Southern Russia and Ukraine.

***Alloscelis vittifrons* (Ivanoff)**

Hysteropterum vittifrons Ivanoff, 1885: 107.

Distribution: Russia (Belgorod Province, Krasnodar Territory, Rostov Province, Stavropol Territory), Ukraine.

Identification: Logvinenko 1975a.

Biology: Logvinenko 1975a.

Photos (Pl. 17, figs d–f): Russia, Krasnodar Territory (ZIN): ♀, dorsal and lateral views; ♂, frontal view.

Genus *Anatolodus* Dlabola

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

Logvinenkoana Gnezdilov, 2002c: 618 (as subgenus of *Bubastia* Emeljanov, 1975) (Type species: *Hysteropterum pictifrons* Melichar, 1906), syn. fide Gnezdilov 2010: 414.

Composition and distribution: 5 species known from Iran, Transcaucasia, and Turkey.

***Anatolodus karabachicus* (Logvinenko)**

Aeluropsis karabachica Logvinenko, 1975b: 59.

Hysteropterum ignavum Dlabola, 1981a: 179, syn. fide Gnezdilov 2010: 414.

Distribution: Azerbaijan (Nagorno-Karabakh Republic), Iran, Turkey.

Identification: Logvinenko 1975b, Dlabola 1981a.

***Anatolodus midicus* (Logvinenko)**

Aeluropsis midica Logvinenko, 1975b: 58.

Distribution: Azerbaijan (Nakhchivan Republic).

Identification: Logvinenko 1975b.

***Anatolodus musivus* Dlabola**

Anatolodus musivus Dlabola, 1982: 128.

Distribution: Turkey.

Identification: Dlabola 1982.

Photos (Pl. 18, figs d–f): Turkey, Mus (NMWC): ♂ (paratype), frontal, dorsal and lateral views.

***Anatolodus pictifrons* (Melichar)**

Hysteropterum pictifrons Melichar, 1906: 140.

Bubastia kulikiana Logvinenko, 1977b: 63, syn. fide Gnezdilov 2002a: 213.

Distribution: Armenia, Georgia, Turkey.

Identification: Gnezdilov 2002a.

Photos (Pl. 18, figs a–c): Armenia (ZIN): ♂, frontal, dorsal and lateral views.

***Anatolodus transcausicus* (Melichar)**

Hysteropterum transcausicum Melichar, 1914: 135.

Distribution: Armenia, Turkey.

Identification: Logvinenko 1975b.

Genus *Anatonga* Emeljanov

Emeljanov, 2001b: 61. Type species: *Phasmena alosa* Emeljanov, 1978.

Composition and distribution: Monotypical genus known from Tajikistan.

***Anatonga alosa* (Emeljanov)**

Phasmena alosa Emeljanov, 1978: 329.

Distribution: Tajikistan.

Identification: Emeljanov 2001b.

Photos (Pl. 19, figs a–c): Tajikistan (ZIN): ♂, frontal, dorsal and lateral views.

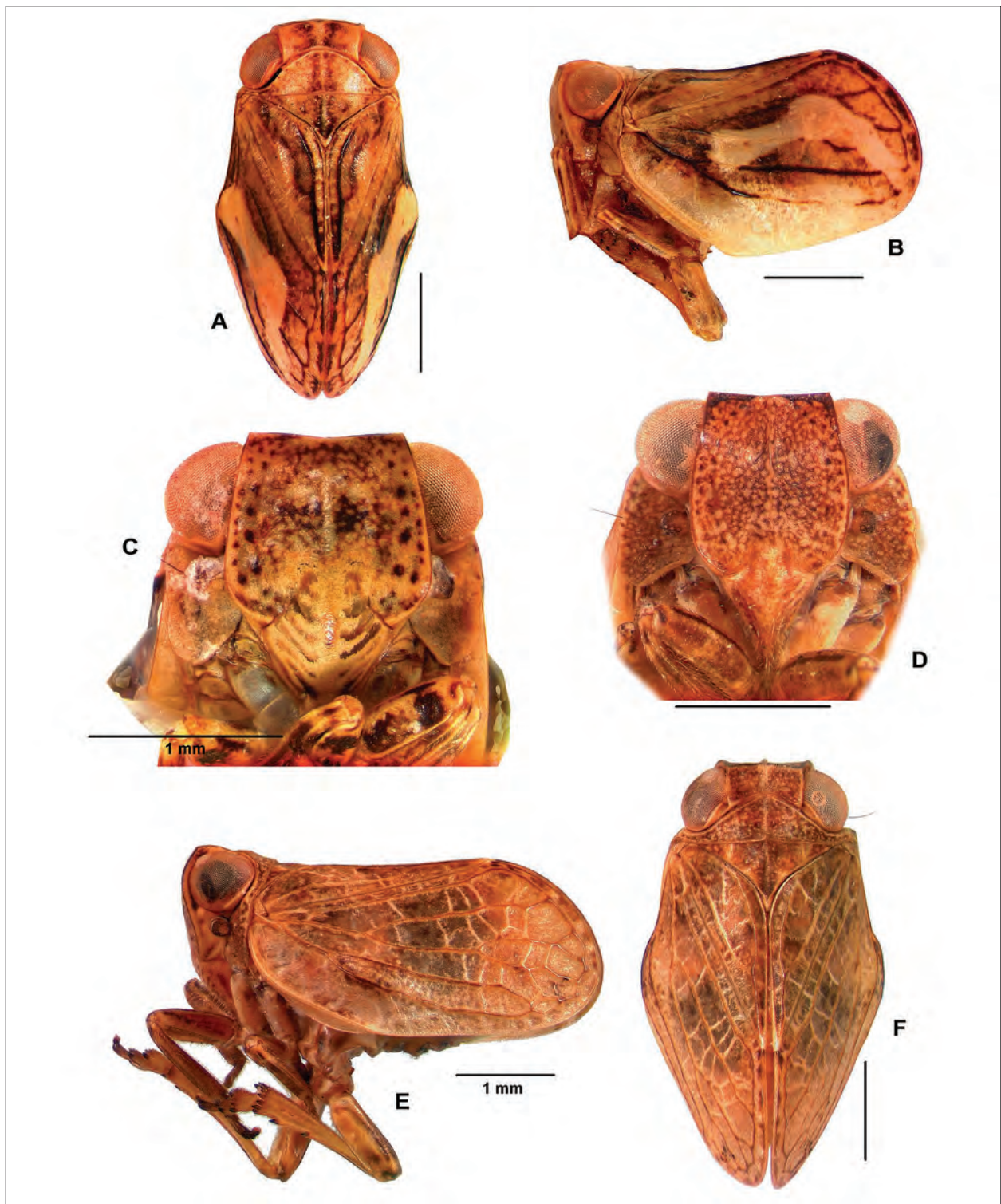


Plate 16. a, *Lindbergatium evanescens* (Bergevin), female, dorsal view; b, same, lateral view; c, same, frontal view; d, *Tingisus guadarramense* (Melichar), male, frontal view; e, same, lateral view; f, same, dorsal view.

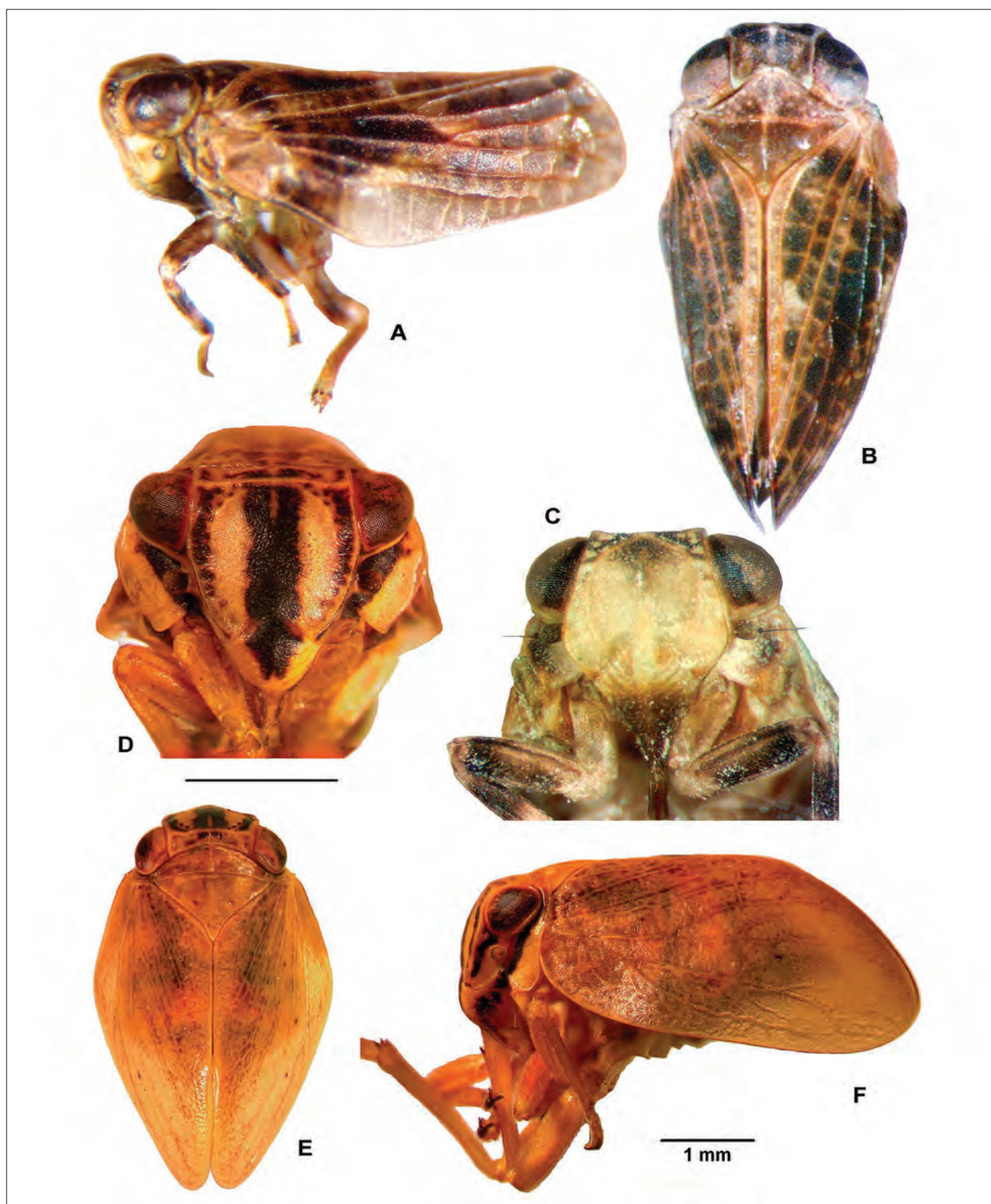


Plate 17. a, *Eusarima iranica* Gnezdilov & Mozaffarian, male (holotype), lateral view; b, same, dorsal view; c, same, paratype, frontal view; d, *Alloscelis vittifrons* (Ivanoff), male, frontal view; e, same, female, dorsal view; f, same, female, lateral view.

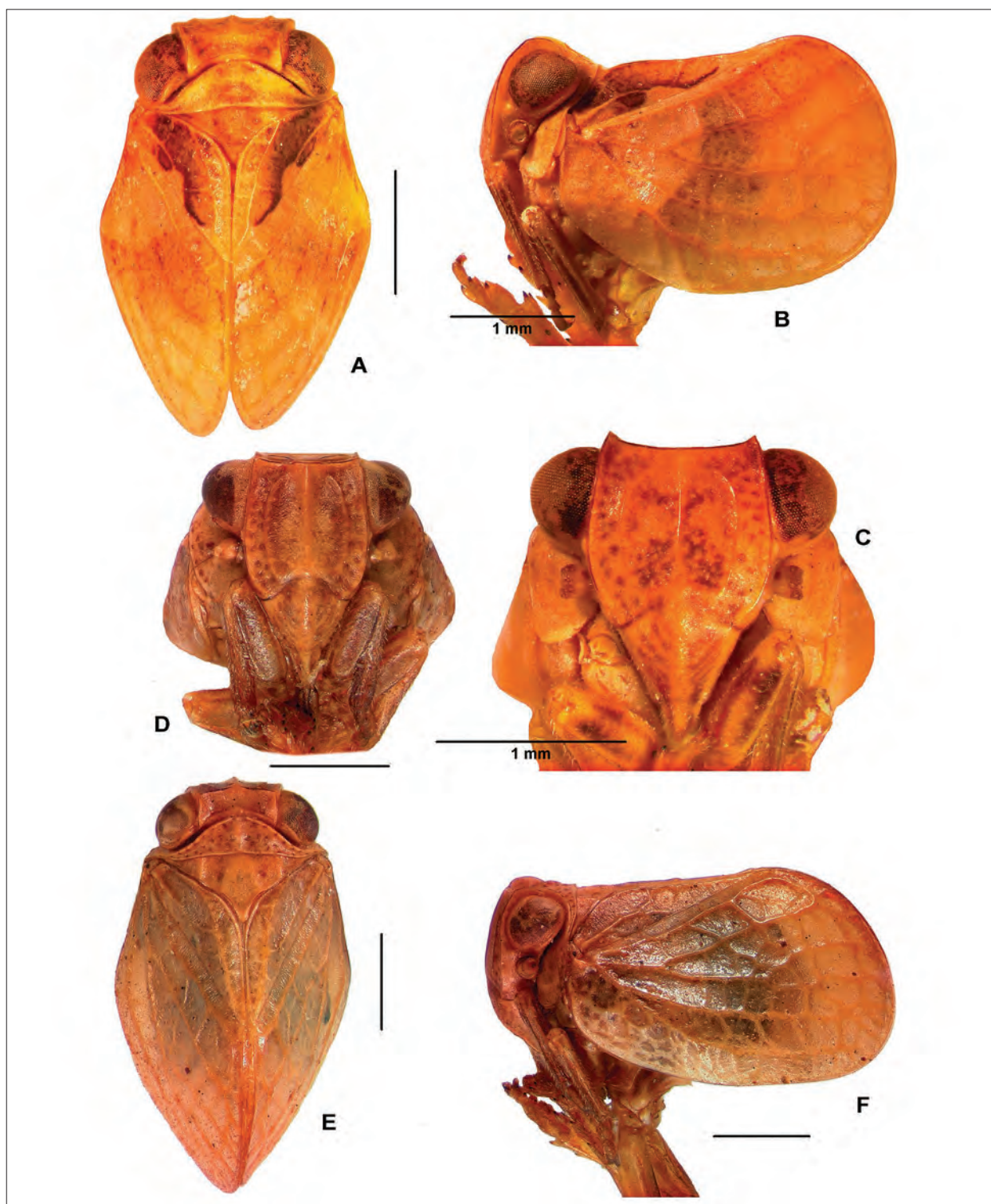


Plate 18. a, *Anatolodus pictifrons* (Melichar), male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Anatolodus musivus* Dlabola, male (paratype), frontal view; e, same, dorsal view; f, same, lateral view.

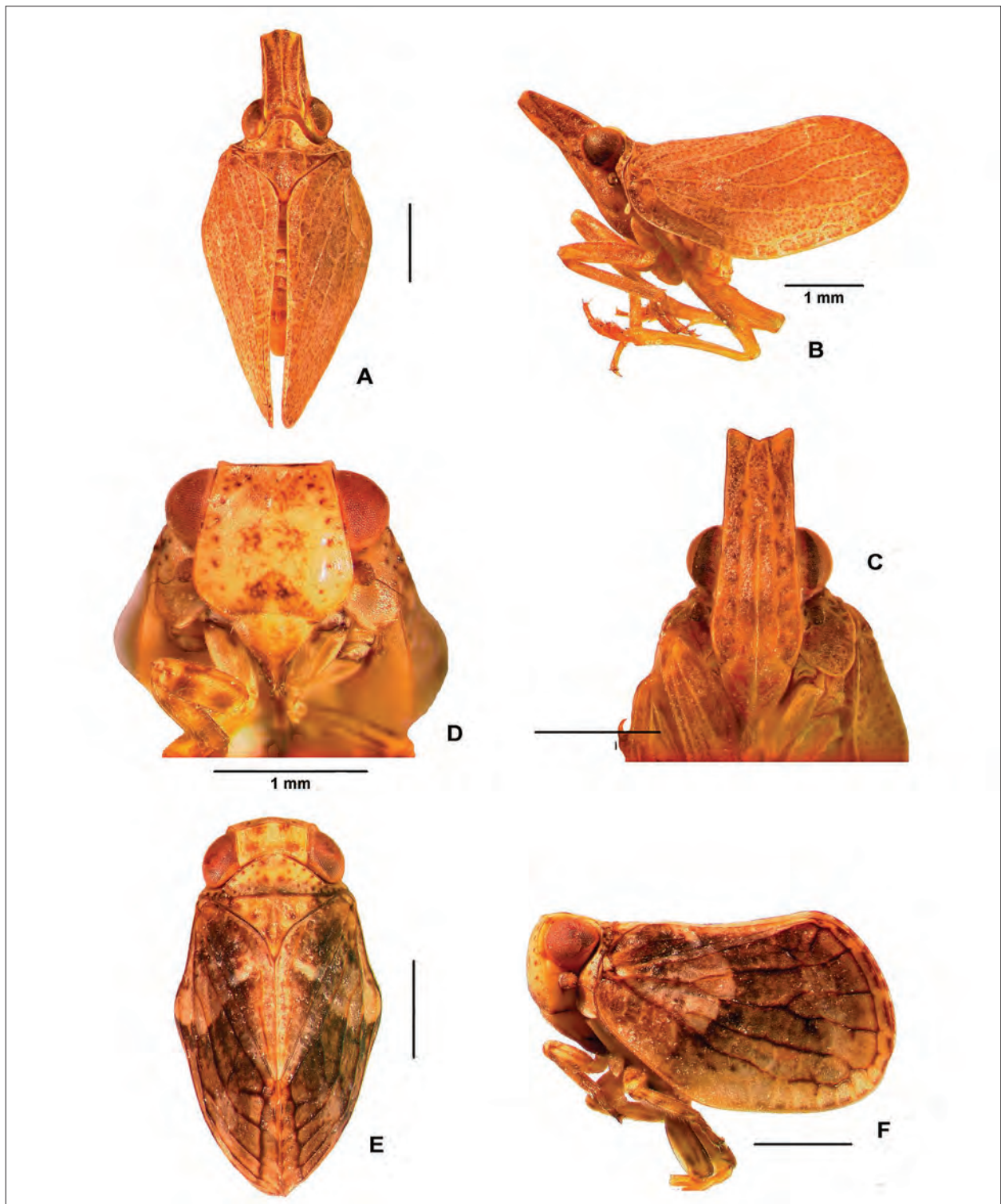


Plate 19. a, *Anatonga alosa* (Emeljanov), male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Bergevinium malagense* (Matsumura), female, frontal view; e, same, dorsal view; f, same, lateral view.

Genus *Bergevinium* Gnezdilov

Gnezdilov, 2003a: 59. Type species: *Hysteropterum gravesteini* Dlabola, 1975.

Composition and distribution: 8 species distributed in the Western Mediterranean Basin.

***Bergevinium angulare* (Fieber)**

Hysteropterum angulare Fieber, 1877: 39.

Distribution: ?Algeria (Puton 1875), ?Portugal (Puton 1875), Spain.

Identification: Dlabola 1984, Gnezdilov, Soulier-Perkins & Bourgoin 2011.

***Bergevinium drahamense* (Linnavuori)**

Hysteropterum drahamense Linnavuori, 1965: 39.

Distribution: Tunisia.

Identification: Linnavuori 1965.

***Bergevinium gravesteini* (Dlabola)**

Hysteropterum gravesteini Dlabola, 1975: 77.

Distribution: Spain (Balearic Islands: Majorca I., Pollensa I.).

Identification: Dlabola 1975.

***Bergevinium lividum* (Bergevin)**

Hysteropterum lividum Bergevin, 1923a: 83.

Distribution: Morocco.

Identification: Bergevin 1923a, Dlabola 1984.

***Bergevinium malagense* (Matsumura)**

Hysteropterum malagense Matsumura, 1910: 23.

Distribution: ?Portugal (Oshanin 1912), Spain.

Identification: Dlabola 1984.

Photos (Pl. 19, figs d–f): Spain, Malaga (KDB): ♀, frontal, dorsal and lateral views.

***Bergevinium maroccanum* (Lethierry)**

Hysteropterum maroccanum Lethierry, 1877: 46.

Distribution: Morocco, ?Tunisia (Puton 1886a).

Identification: Lethierry 1877.

***Bergevinium theryi* (Bergevin)**

Hysteropterum theryi Bergevin, 1925: 159.

Distribution: Morocco.

Identification: Bergevin 1925.

***Bergevinium trapezoidale* (Bergevin)**

Hysteropterum trapezoidale Bergevin, 1917a: 50.

Distribution: Algeria, Morocco.

Identification: Dlabola 1984.

Genus *Bootheca* Emeljanov

Emeljanov, 1964a: 355. Type species: *Lusanda taurus* Oshanin, 1870.

Composition and distribution: Monotypical genus distributed in the steppe zone of Southeastern Europe.

***Bootheca taurus* (Oshanin)**

Lusanda taurus Oshanin, 1870: 133.

Distribution: Bulgaria, Moldova, Romania, Ukraine.

Identification: Logvinenko 1975a.

Biology: Logvinenko 1975a.

Photos (Pl. 20, figs d–f): Ukraine, Vinnitskaya Province (ZIN): ♀, frontal, dorsal and lateral views.

Genus *Brachyprosopa* Kusnezov

Kusnezov, 1929: 332. Type species: *Brachyprosopa umnovi* Kusnezov, 1929.

Composition and distribution: 2 species distributed in Kazakhstan, Middle Asia, and Afghanistan.

***Brachyprosopa bicornuta* (Kusnezov)**

Hysteropterum bicornute Kusnezov, 1929: 331.

Hysteropterum enitidum Dlabola, 1961: 265, syn. fide Dubovsky 1966: 60.

Hysteropterum enitidum var. *inhonora* Dlabola, 1961: 266.

Distribution: Afghanistan, Kazakhstan, Uzbekistan.

Identification: Dubovsky 1966, Mitjaev 1971.

Biology: Mitjaev 2002.

***Brachyprosopa umnovi* Kusnezov**

Brachyprosopa umnovi Kusnezov, 1929: 333.

Distribution: Kazakhstan, Tajikistan, Turkmenistan.

Identification: Mitjaev 1971.

Biology: Kaplin 1986.

Photos (Pl. 20, figs a–c): Tajikistan (ZIN): ♂, frontal, dorsal and lateral views.

Genus *Bubastia* Emeljanov

Emeljanov, 1975: 390 (nom. nov. pro *Aeluropsis* Emeljanov, 1971 nec Lydekker, 1884). Type species: *Hysteropterum tauricum* Kusnezov, 1926.

Composition and distribution: 3 subgenera with 22 species mostly distributed in the Eastern Mediterranean Basin. More than a half of the known species

are recorded from Greece, from where eleven endemic species are known (Drosopoulos 1990).

Key to subgenera

1. Fore wing with caudo-dorsal angle approximately right (Pl. 21, figs d, g). Aedeagus without ventral hooks . . . 2
 - Fore wing with caudo-dorsal angle obtuse (Pl. 21, fig. a, Pl. 22, figs b, e). Aedeagus with pair of ventral hooks . . .
 ***Bubastia* Emeljanov**
2. Coryphe short, transverse (Pl. 21, fig. i). Capitulum of style clearly detached, on long neck. Ventral and dorso-lateral phallobase lobes with long awl-shaped processes ***Acrestia* Dlabola**
 - Coryphe relatively long, approximately square (Pl. 21, fig. e). Capitulum of style weakly detached, without neck. Ventral and dorso-lateral phallobase lobes without awl-shaped processes
 ***Capititudes* Gnezdilov, Drosopoulos & Wilson**

Subgenus *Bubastia* Emeljanov

Emeljanov, 1975: 390 (nom. nov. pro *Aeluropsis* Emeljanov, 1971 nec Lydekker, 1884). Type species: *Hysteropterum tauricum* Kusnezov, 1926.

Composition and distribution: 19 species distributed in the Eastern Mediterranean Basin and also in steppe, mountain, and submediterranean regions of Southeastern Europe.

***Bubastia amasica* Kartal & Karavin**

Bubastia amasica Kartal & Karavin, 2010: 75.

Distribution: Turkey.

Identification: Kartal & Karavin 2010.

***Bubastia corniculata* (Puton)**

Hysteropterum corniculatum Puton, 1890: 231.

Distribution: Bosnia and Herzegovina, Bulgaria, ?Croatia (Puton 1899), Greece.

Identification: Dlabola 1979a.

***Bubastia cyrenaica* (Linnavuori)**

Hysteropterum cyrenaicum Linnavuori, 1965: 18.

Distribution: Libya.

Identification: Linnavuori 1965.

***Bubastia ephialtes* (Linnavuori)**

Hysteropterum ephialtes Linnavuori, 1971: 71.

Bubastia libanotica Dlabola, 1987d: 304, syn. fide Gnezdilov, Drosopoulos & Wilson 2004: 219.

Distribution: Cyprus, Greece, Lebanon, Syria, Turkey.

Identification: Linnavuori 1971.

Photos (Pl. 22, figs a–e): Lebanon (NMWC): ♂, frontal, dorsal and lateral views; ♀, dorsal and lateral views.

***Bubastia jankovici* Dlabola**

Bubastia jankovici Dlabola, 1980a: 226.

Distribution: Greece.

Identification: Dlabola 1980a.

***Bubastia josifovi* Dlabola**

Bubastia josifovi Dlabola, 1980a: 227.

Distribution: Bulgaria.

Identification: Dlabola 1980a.

***Bubastia kelkitica* Kartal & Karavin**

Bubastia kelkitica Kartal & Karavin, 2010: 73.

Distribution: Turkey.

Identification: Kartal & Karavin 2010.

***Bubastia lindskogi* Dlabola**

Bubastia lindskogi Dlabola, 1985: 227.

Distribution: Greece.

Identification: Dlabola 1985.

***Bubastia ludviki* Dlabola**

Bubastia ludviki Dlabola, 1979a: 275.

Distribution: Bulgaria, Republic of Macedonia.

Identification: Dlabola 1979a.

***Bubastia lukia* Dlabola**

Bubastia lukia Dlabola, 1984: 59.

Distribution: Greece.

Identification: Dlabola 1984.

***Bubastia montandonica* Dlabola**

Bubastia montandonica Dlabola, 1984: 64.

Distribution: Romania.

Identification: Dlabola 1984.

***Bubastia novalis* (Logvinenko)**

Aeluropsis novalis Logvinenko, 1975b: 56.

Distribution: Bulgaria, Greece, Ukraine.

Identification: Logvinenko 1975b.

***Bubastia obsoleta* (Fieber)**

Hysteropterum obsoletum Fieber, 1877: 24.

Distribution: ?Albania (Horváth 1916), Croatia, Greece, Montenegro, Italy, Slovenia.

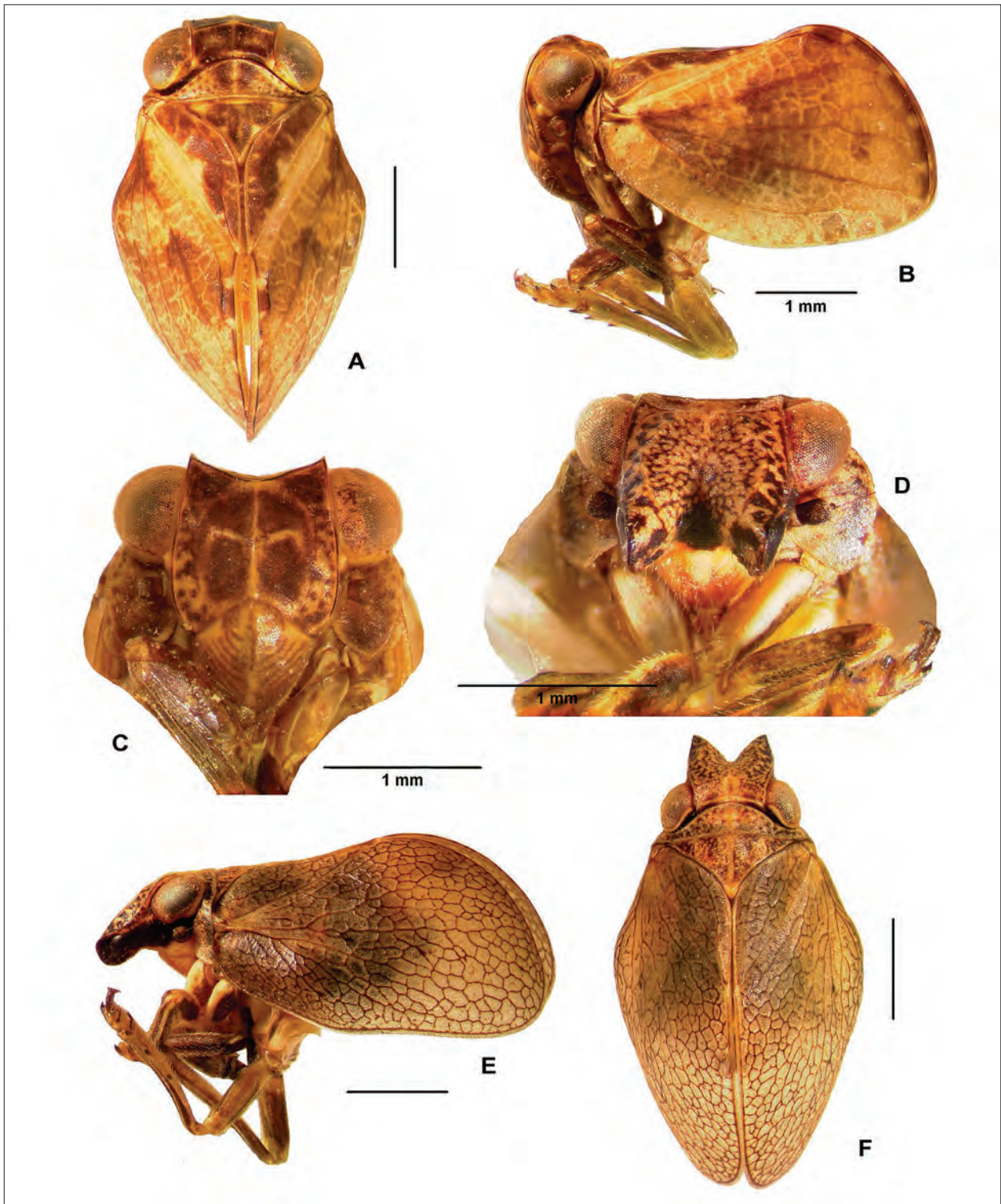


Plate 20. a, *Brachyprosopa umnovi* Kusnezov, male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Boothecca taurus* (Oshanin), female, frontal view; e, same, lateral view; f, same, dorsal view.

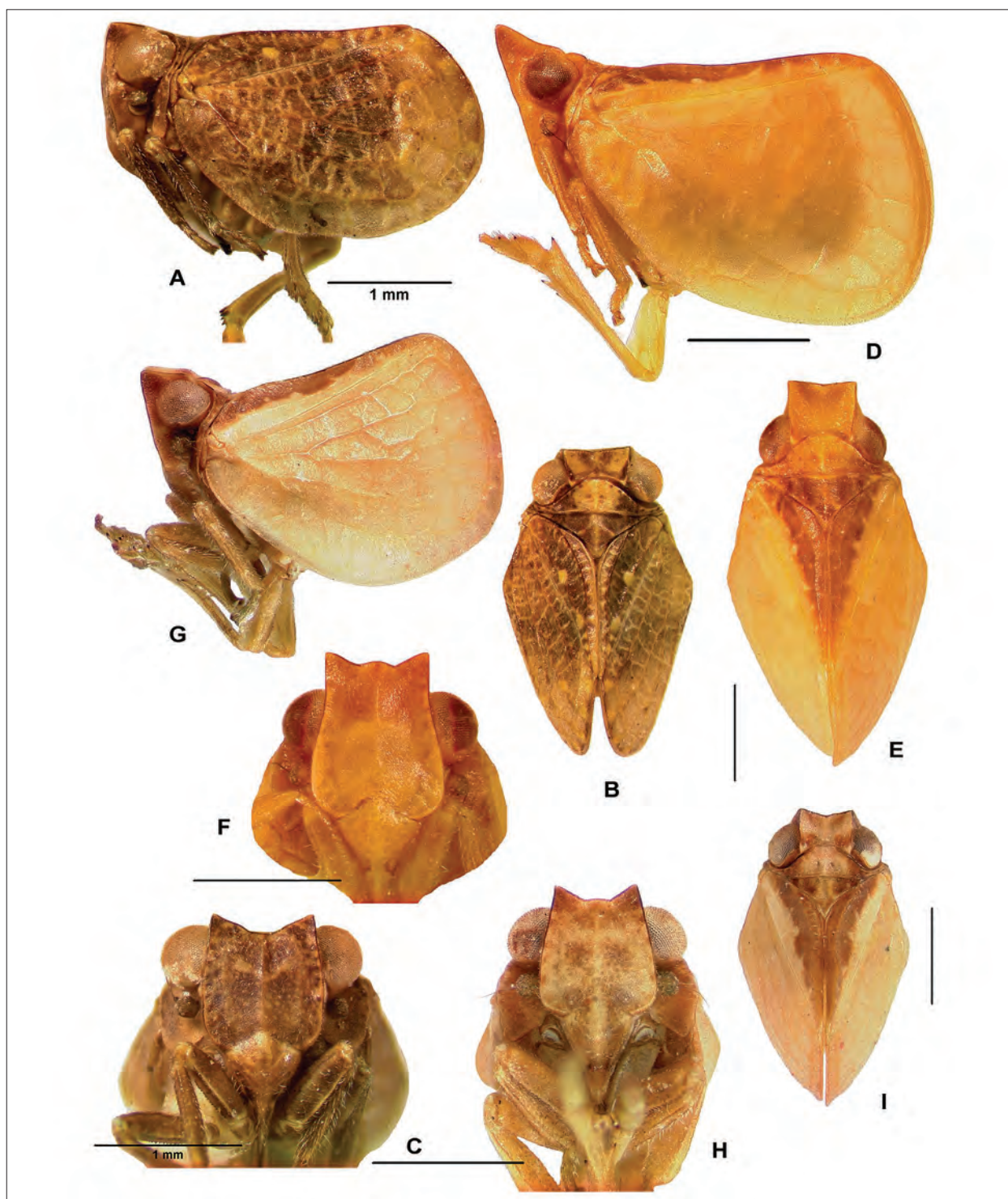


Plate 21. a, *Bubastia (Bubastia) taurica* (Kusnezov), male, lateral view; b, same, dorsal view; c, same, frontal view; d, *Bubastia (Capititudes) jatajana* Dlabola, female, lateral view; e, same, dorsal view; f, same, frontal view; g, *Bubastia (Acrestia) suturale*, male, lateral view; h, same, frontal view; i, same, dorsal view.

Identification: Dlabola 1980a, Gnezdilov, Soulier-Perkins & Bourgoin 2011.

***Bubastia olympica* Dlabola**

Bubastia olympica Dlabola, 1982: 138.

Distribution: Greece.

Identification: Dlabola 1982.

***Bubastia sakisi* Dlabola**

Bubastia sakisi Dlabola, 1984: 61.

Distribution: Greece.

Identification: Dlabola 1984.

***Bubastia saskia* Dlabola**

Bubastia saskia Dlabola, 1984: 58.

Distribution: Greece.

Identification: Dlabola 1984.

***Bubastia taurica* (Kusnezov)**

Hysteropterum tauricum Kusnezov, 1926: 280.

Distribution: Russia (Krasnodar Territory), Ukraine (Crimea).

Identification: Logvinenko 1975a.

Biology: Logvinenko 1975a.

Photos (Pl. 21, figs a–c): Russia, Krasnodar Territory (ZIN): ♂, frontal, dorsal and lateral views.

***Bubastia thaidis* Dlabola**

Bubastia thaidis Dlabola, 1987a: 69.

Distribution: Greece.

Identification: Dlabola 1987a.

***Bubastia thessalica* Dlabola**

Bubastia thessalica Dlabola, 1980a: 229.

Distribution: Greece.

Identification: Dlabola 1980a.

Subgenus *Acrestia* Dlabola

Dlabola, 1980a: 222 (as subgenus). Type species: *Bubastia acrestia quadracuta* Dlabola, 1980.

Composition and distribution: 2 species — endemics to Greece.

***Bubastia spartica* Dlabola**

Bubastia spartica Dlabola, 1982: 136.

Distribution: Greece.

Identification: Dlabola 1982.

***Bubastia suturalis* (Fieber)**

Hysteropterum suturale Fieber, 1877: 3.

Acrestia quadracuta Dlabola, 1980a: 223, syn. fide Gnezdilov, Drosopoulos & Wilson 2004: 220.

Distribution: Greece.

Identification: Dlabola 1980a.

Photos (Pl. 21, figs g–i): Greece (NMWC): ♂, frontal, dorsal and lateral views.

Subgenus *Capititudes* Gnezdilov, Drosopoulos & Wilson

Gnezdilov, Drosopoulos & Wilson, 2004: 219 (as subgenus). Type species: *Bubastia jatagana* Dlabola, 1980.

Composition and distribution: Monotypical subgenus known from Greece and Turkey.

***Bubastia jatagana* Dlabola**

Bubastia jatagana Dlabola, 1980a: 224.

Distribution: Greece (Samos I., Rhodes I.), Turkey.

Identification: Dlabola 1980a.

Photos (Pl. 21, figs d–f): Greece, Samos I. (ZIN): ♀, frontal, dorsal and lateral views.

Genus *Caepovultus* Gnezdilov & Wilson

Gnezdilov & Wilson, 2007b: 110. Type species: *Caepovultus deemingi* Gnezdilov & Wilson, 2007.

Composition and distribution: 2 species known from mountains of Oman and United Arab Emirates.

***Caepovultus deemingi* Gnezdilov & Wilson**

Caepovultus deemingi Gnezdilov & Wilson, 2007b: 110.

Distribution: Oman.

Identification: Gnezdilov & Wilson 2007.

Photos (Pl. 22, figs f–h): Oman (NMWC): ♂ (holotype), frontal, dorsal and lateral views.

***Caepovultus vegrandis* Gnezdilov & Wilson**

Caepovultus vegrandis Gnezdilov & Wilson, 2011: 109.

Distribution: United Arab Emirates.

Identification: Gnezdilov & Wilson 2011.

Genus *Cavatorium* Dlabola

Dlabola, 1980a: 208. Type species: *Cavatorium bispinatum* Dlabola, 1980.

Composition and distribution: 4 species — endemics to Iran.

Cavatorium ardakanum* DlabolaCavatorium ardakanum* Dlabola, 1980a: 210.**Distribution:** Iran.**Identification:** Dlabola 1980a.***Cavatorium bispinatum* Dlabola***Cavatorium bispinatum* Dlabola, 1980a: 209.**Distribution:** Iran.**Identification:** Dlabola 1980a.***Cavatorium quadrispinatum* Dlabola***Cavatorium quadrispinatum* Dlabola, 1980a: 211.**Distribution:** Iran.**Identification:** Dlabola 1980a.**Photos (Pl. 23, figs d–f):** Iran (NMWC): ♀, frontal, dorsal and lateral views.***Cavatorium sarbaz* Dlabola***Cavatorium sarbaz* Dlabola, 1980a: 212.**Distribution:** Iran.**Identification:** Dlabola 1980a.**Genus *Celyphoma* Emeljanov**Emeljanov, 1971: 625. Type species: *Hysteropterum fruticulinum* Emeljanov, 1964.**Composition and distribution:** 23 species (one of them with 2 subspecies) known from Kazakhstan and Middle Asia. One species is known from Northwestern China (Xinjiang) (Mitjaev 1995). More than half of the species (13) are known from Kyrgyzstan.***Celyphoma atomata* (Mitjaev)***Phasmena atomata* Mitjaev, 1971: 71.**Distribution:** Kazakhstan.**Identification:** Mitjaev 1971.***Celyphoma biarmata* Chelpakova***Celyphoma biarmata* Chelpakova, 1989: 309.**Distribution:** Kyrgyzstan.**Identification:** Chelpakova 1989, Anufriev 2004.***Celyphoma bogutica* Mitjaev***Celyphoma bogutica* Mitjaev, 1995: 18.**Distribution:** Kazakhstan.**Identification:** Mitjaev 1995.***Celyphoma chelifera* Lukjanova***Celyphoma chelifera* Lukjanova, 1992: 350.**Distribution:** Kyrgyzstan.**Identification:** Lukjanova 1992.***Celyphoma coelimontana* Emeljanov***Celyphoma coelimontana* Emeljanov, 1978: 331.**Distribution:** Kyrgyzstan.**Identification:** Emeljanov 1978, Anufriev 2004.***Celyphoma corrugata* Emeljanov***Celyphoma corrugata* Emeljanov, 1978: 329.**Distribution:** Kyrgyzstan.**Identification:** Emeljanov 1978.***Celyphoma dietrichi* Anufriev***Celyphoma dietrichi* Anufriev, 2004: 41.**Distribution:** Kyrgyzstan.**Identification:** Anufriev 2004.***Celyphoma dilatata* Emeljanov***Celyphoma dilatata* Emeljanov, 1978: 330.**Distribution:** Tajikistan.**Identification:** Emeljanov 1978.***Celyphoma dzhungarica* Mitjaev***Celyphoma dzhungarica* Mitjaev, 1995: 18.**Distribution:** Kazakhstan.**Identification:** Mitjaev 1995.***Celyphoma emeljanovi* Anufriev***Celyphoma emeljanovi* Anufriev, 2004: 42.**Distribution:** Uzbekistan.**Identification:** Anufriev 2004.***Celyphoma fruticulina* (Emeljanov)***Hysteropterum fruticulinum* Emeljanov, 1964b: 13.**Distribution:** Kazakhstan.**Identification:** Emeljanov 1964b.**Biology:** Emeljanov 1969.**Photos (Pl. 23, figs a–c):** Kazakhstan, Karaganda Province (ZIN): ♂, frontal, dorsal and lateral views.***Celyphoma furcata* Lukjanova***Celyphoma furcata* Lukjanova, 1992: 350.**Distribution:** Kyrgyzstan.**Identification:** Lukjanova 1992.***Celyphoma gloreosa* Mitjaev***Celyphoma gloreosa* Mitjaev, 1995: 19.**Distribution:** Kazakhstan.**Identification:** Mitjaev 1995.

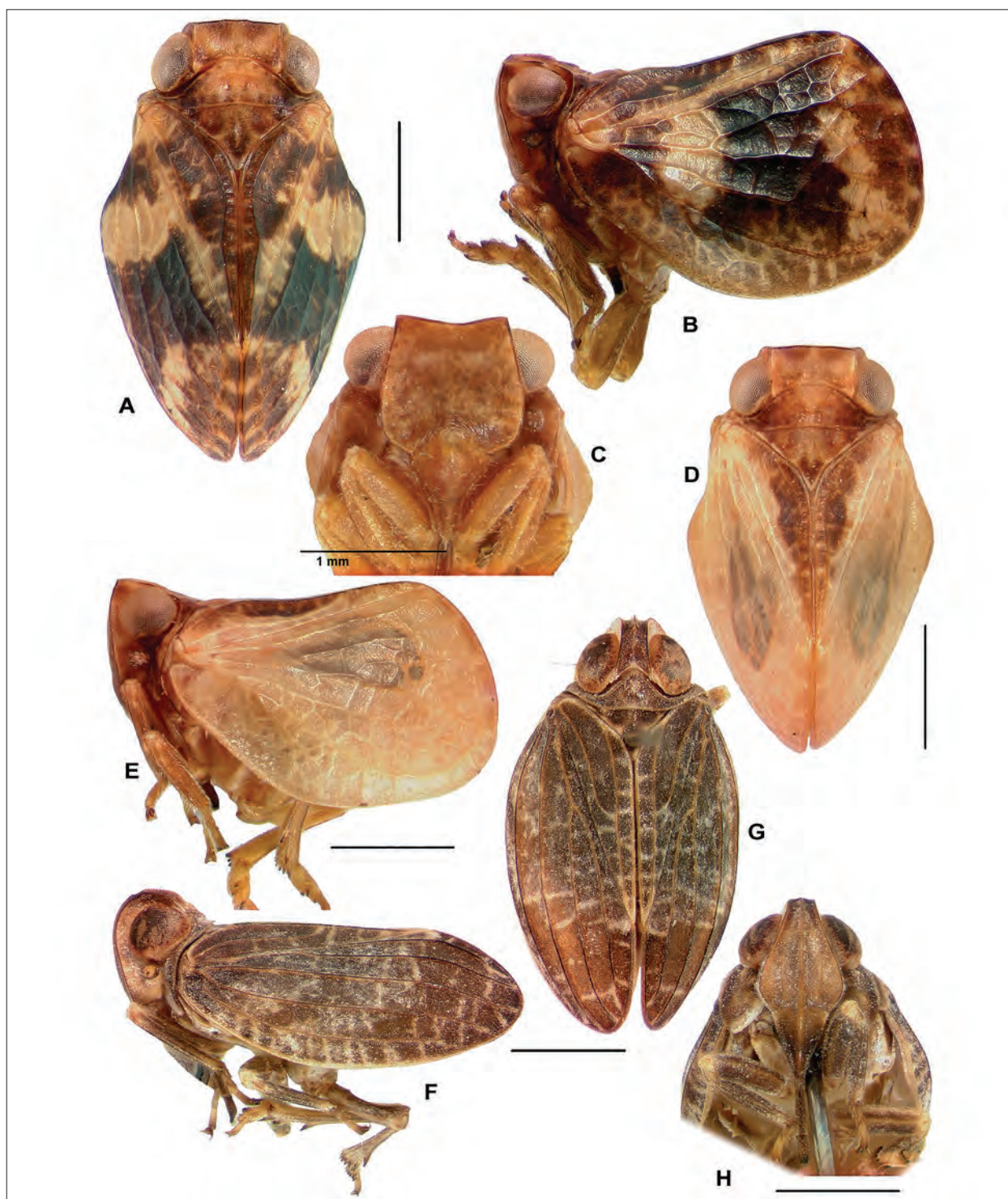


Plate 22. a, *Bubastia (Bubastia) ephialtes* (Linnavuori), female, dorsal view; b, same, female, lateral view; c, same, male, frontal view; d, same, male, dorsal view; e, same, male, lateral view; f, *Caepovultus deemingi* Gnezdilov & Wilson, male (holotype), lateral view; g, same, dorsal view; h, same, frontal view.

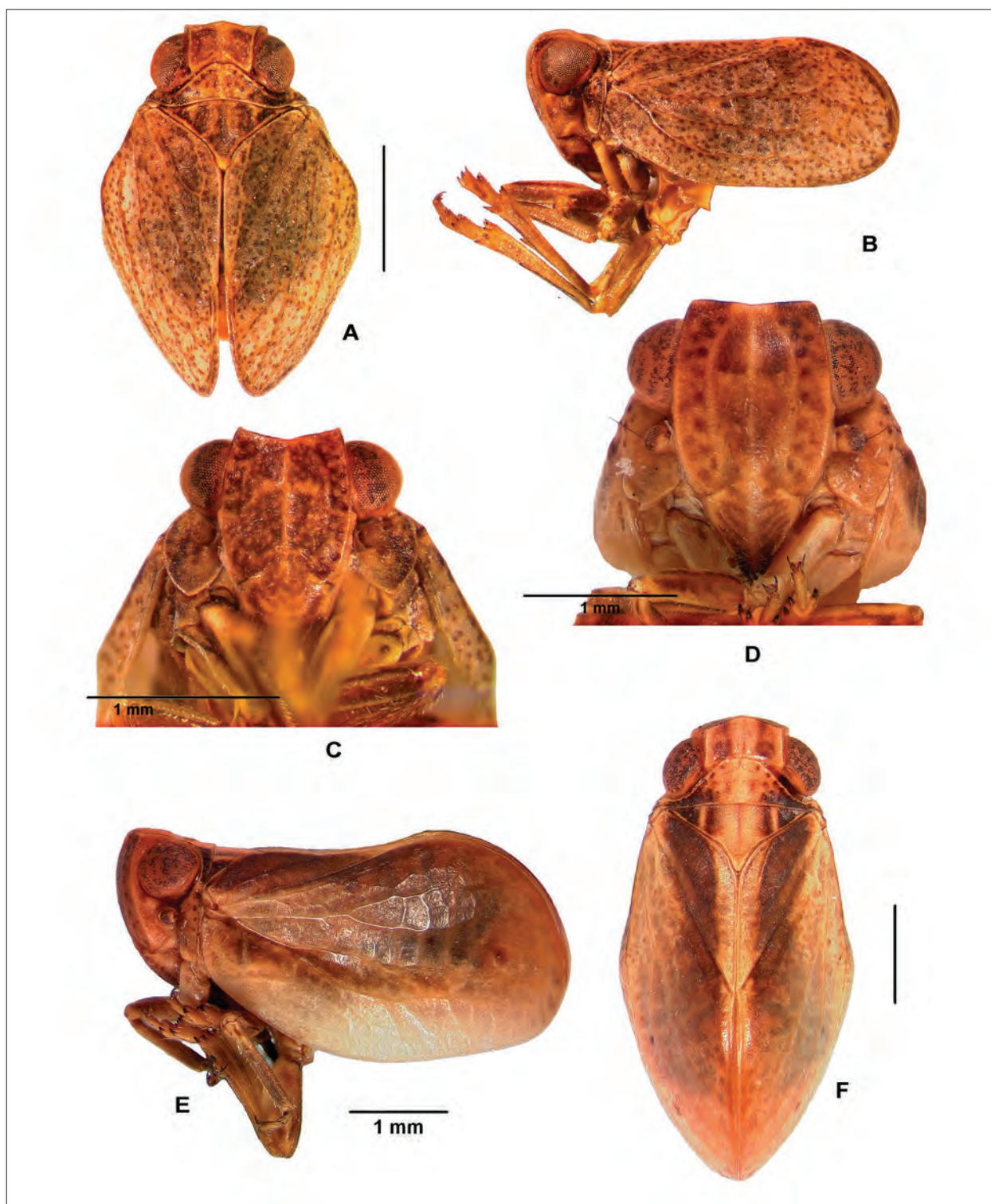


Plate 23. a, *Celyphoma fruticulina* (Emeljanov), male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Cavatorium quadrispinatum* Dlabola, female, frontal view; e, same, lateral view; f, same, dorsal view.

Celyphoma gultchense* AnufrievCelyphoma gultchense* Anufriev, 2004: 45.**Distribution:** Kyrgyzstan.**Identification:** Anufriev 2004.***Celyphoma issykkulica* Chelpakova***Celyphoma issykkulica* Chelpakova, 1989: 308.**Distribution:** Kyrgyzstan.**Identification:** Chelpakova 1989.***Celyphoma karatepica* (Dlabola)***Hysteropterum karatepicum* Dlabola, 1961: 264.**Distribution:** Uzbekistan.**Identification:** Dlabola 1961, Anufriev 2004.***Celyphoma karatavica* Mitjaev***Celyphoma karatavica* Mitjaev, 1995: 14.**Distribution:** Kazakhstan.**Identification:** Mitjaev 1995.**Biology:** Mitjaev 2002.***Celyphoma loginovae loginovae* Anufriev***Celyphoma loginovae* Anufriev, 2004: 44.**Distribution:** Kyrgyzstan.**Identification:** Anufriev 2004.***Celyphoma loginovae karakolica* Anufriev***Celyphoma loginovae karakolica* Anufriev, 2004: 44.**Distribution:** Kyrgyzstan.**Identification:** Anufriev 2004.***Celyphoma modesta* Lukjanova***Celyphoma modesta* Lukjanova, 1992: 349.**Distribution:** Kyrgyzstan.**Identification:** Lukjanova 1992.***Celyphoma modestula* Anufriev***Celyphoma modestula* Anufriev, 2004: 43.**Distribution:** Kyrgyzstan.**Identification:** Anufriev 2004.***Celyphoma nigrimontana* Emeljanov***Celyphoma nigrimontana* Emeljanov, 1978: 331.**Distribution:** Kazakhstan.**Identification:** Emeljanov 1978.***Celyphoma obnoxia* Mitjaev***Celyphoma obnoxia* Mitjaev, 1995: 18.**Distribution:** Kazakhstan.**Identification:** Mitjaev 1995.**Biology:** Mitjaev 2002.***Celyphoma ogusica* Chelpakova***Celyphoma ogusica* Chelpakova, 1989: 308.**Distribution:** Kyrgyzstan.**Identification:** Chelpakova 1989, Anufriev 2004.**Genus *Conosimus* Mulsant & Rey***Mulsant & Rey*, 1855b: 203. Type species: *Conosimus coelatus* Mulsant & Rey, 1855.*Sphenidius* Soós, 1976: 87 (Type species: *Sphenidius horvathi* Soós, 1976), syn. fide Dlabola 1987b: 75.**Composition and distribution:** 5 species distributed in the Western Mediterranean Basin.***Conosimus coelatus* Mulsant & Rey***Conosimus coelatus* Mulsant & Rey, 1855b: 204.*Conosimus corsicus* Lethierry, 1876: 76, syn. fide Melichar 1906: 110.**Distribution:** France including Corsica I., ?Italy (Sardinia I.) (Servadei 1952), Spain including Balearic Islands (Majorca I., Ibiza I.).**Identification:** Dlabola 1987b.**Photos (Pl. 24, figs d–f):** France, Bouches-du-Rhone (KDB): ♀, dorsal and lateral views; Spain, Tarragona (KDC): ♂, frontal view.***Conosimus horvathi* (Soós)***Sphenidius horvathi* Soós, 1976: 88.**Distribution:** Spain.**Identification:** Soós 1976.***Conosimus malfanus* Dlabola***Conosimus malfanus* Dlabola, 1987b: 78.**Distribution:** Italy (Malfa I.).**Identification:** Dlabola 1987b.***Conosimus noualhieri* Puton***Conosimus noualhieri* Puton, 1898: 171.**Distribution:** Algeria, Morocco.**Identification:** Puton 1898.**Photos (Pl. 24, figs a–c):** Morocco, Berkane (MNHN): ♀, frontal, dorsal and lateral views.***Conosimus violantis* Ferrari***Conosimus violantis* Ferrari, 1884: 505.**Distribution:** Tunisia (Galita I.).**Identification:** Ferrari 1884.

Genus *Corymbius* Gnezdilov

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

Composition and distribution: Monotypical genus known from Bulgaria, Greece, and Turkey.

***Corymbius tekirdagicus* (Dlabola)**

Quadrastylum tekirdagicum Dlabola, 1982: 141.

Distribution: Bulgaria, Greece, Turkey.

Identification: Dlabola 1982, Gnezdilov 2002b.

Photos (Pl. 25, figs e–f): Bulgaria (ZIN): ♂, frontal, dorsal and lateral views.

Genus *Eusarima* Yang, 1994

Yang, 1994: 108 (in Chan & Yang 1994). Type species: *Eusarima contorta* Yang, 1994 (in Chan & Yang 1994).

Composition and distribution: 2 subgenera — *Eusarima* Yang with 32 species known from Taiwan and Japan and *Nepalius* Dlabola, 1997 with 2 species known from Nepal and Iran (Gnezdilov 2009, 2013b, Gnezdilov & Mozaffarian 2011). In the Western Palaearctic only the subgenus *Nepalius* Dlabola with single species is presently known.

Note: The genus is placed in the subtribe Hysteropterina provisionally. The subtribal system of Oriental genera is not developed yet.

Key to subgenera

1. Intermediate cainae of metope joined below its upper margin. Fore wings without hypocostal plate *Eusarima* Yang
- Intermediate cainae of metope joined on its upper margin. Fore wings with narrow hypocostal plate *Nepalius* Dlabola

***Eusarima iranica* Gnezdilov & Mozaffarian**

Eusarima (Nepalius) iranica Gnezdilov & Mozaffarian, 2011: 459.

Distribution: Iran.

Identification: Gnezdilov & Mozaffarian 2011.

Photos (Pl. 17, figs a–c): Iran, Tehran (HMIM): ♂, dorsal and lateral views (holotype); frontal view (paratype).

Genus *Falcidius* Stål

Stål, 1866: 205. Type species: *Cercopis aptera* Fabricius, 1794.

Composition and distribution: 10 species distributed in the Western and Central Mediterranean Basin.

***Falcidius apterus* (Fabricius)**

Cercopis aptera Fabricius, 1794: 54.

Hysteropterum heydenii Kirschbaum, 1868: 55, syn. fide Melichar 1906: 115.

Hysteropterum areolatum A. Costa, 1883: 338, syn. fide Melichar 1906: 115.

Distribution: Algeria, Italy (Abruzzo Province, ?Sardinia I. (Costa 1883)).

Identification: Gnezdilov & Wilson 2008.

Photos (Pl. 26, figs a–c): Algeria (NMWC): ♀, frontal, dorsal and lateral views.

***Falcidius chlorizans* (Rey)**

Hysteropterum chlorizans Rey, 1891: 242.

Distribution: Algeria.

Identification: Gnezdilov & Wilson 2008.

***Falcidius diphtheriopsis* Bergevin**

Falcidius diphtheriopsis Bergevin, 1919a: 157.

Distribution: Algeria.

Identification: Gnezdilov & Wilson 2008.

***Falcidius doriae* (Ferrari)**

Hysteropterum doriae Ferrari, 1884: 507.

Distribution: Italy (Sicily I.), Tunisia.

Identification: Gnezdilov & Wilson 2008.

***Falcidius duffelsicus* Dlabola**

Falcidius duffelsicus Dlabola, 1982: 135.

Distribution: Tunisia.

Identification: Gnezdilov & Wilson 2008.

Photos (Pl. 27, figs d–f): Tunisia (BMNH): ♀, frontal, dorsal and lateral views.

***Falcidius ebejeri* Gnezdilov & Wilson**

Falcidius ebejeri Gnezdilov & Wilson, 2008: 1470.

Distribution: Malta.

Identification: Gnezdilov & Wilson 2008.

***Falcidius hannibal* Gnezdilov & Wilson**

Falcidius hannibal Gnezdilov & Wilson, 2008: 1471.

Distribution: Algeria, Tunisia.

Identification: Gnezdilov & Wilson 2008.

Photos (Pl. 27, figs a–c): Tunisia (ZIN): ♂ (paratype), frontal, dorsal and lateral views.

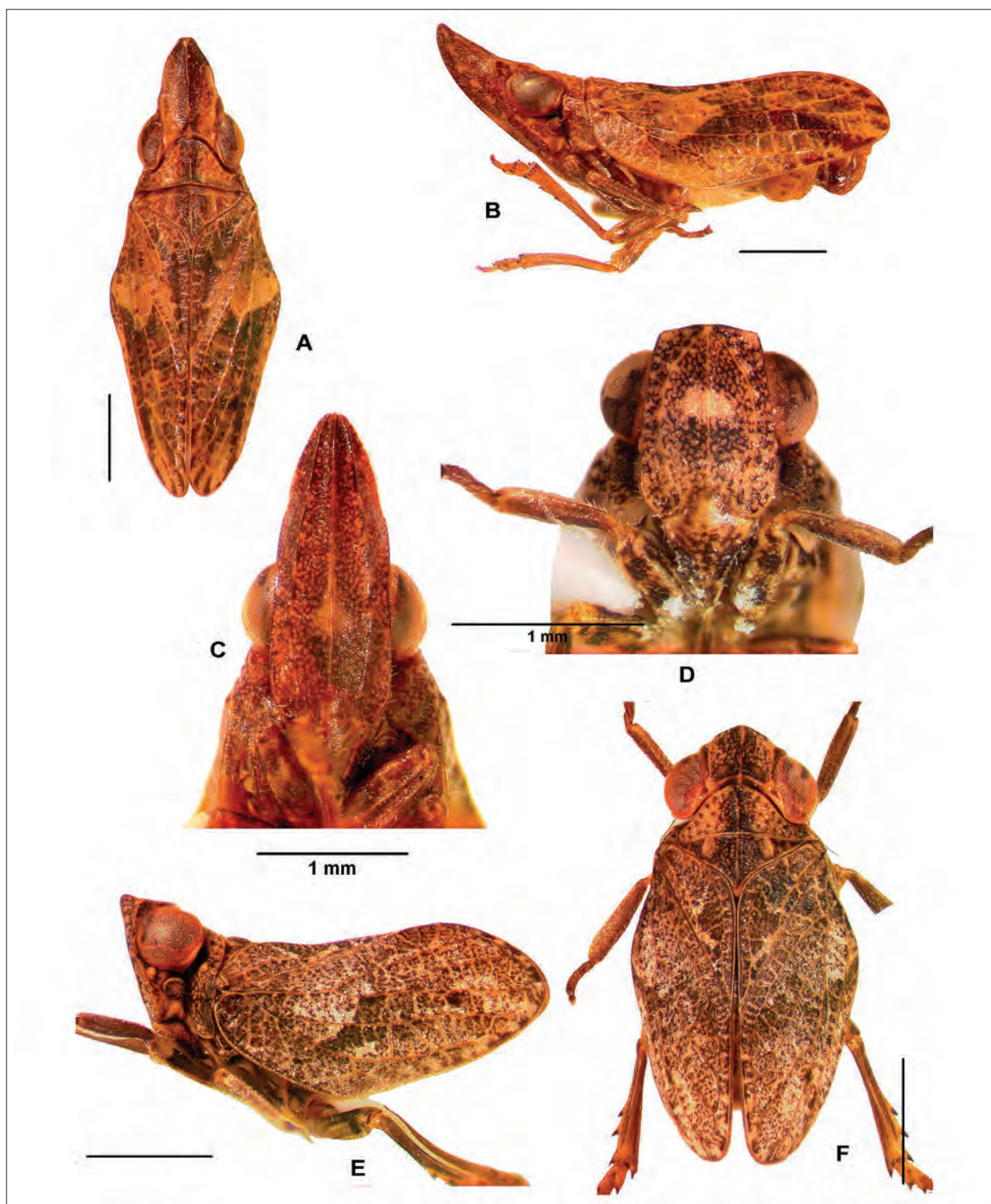


Plate 24. a, *Conosimus nouallieri* Puton, female, dorsal view; b, same, lateral view; c, same, frontal view; d, *Conosimus coelatus* Mulsant & Rey, male, frontal view; e, same, female, lateral view; f, same, female, dorsal view.

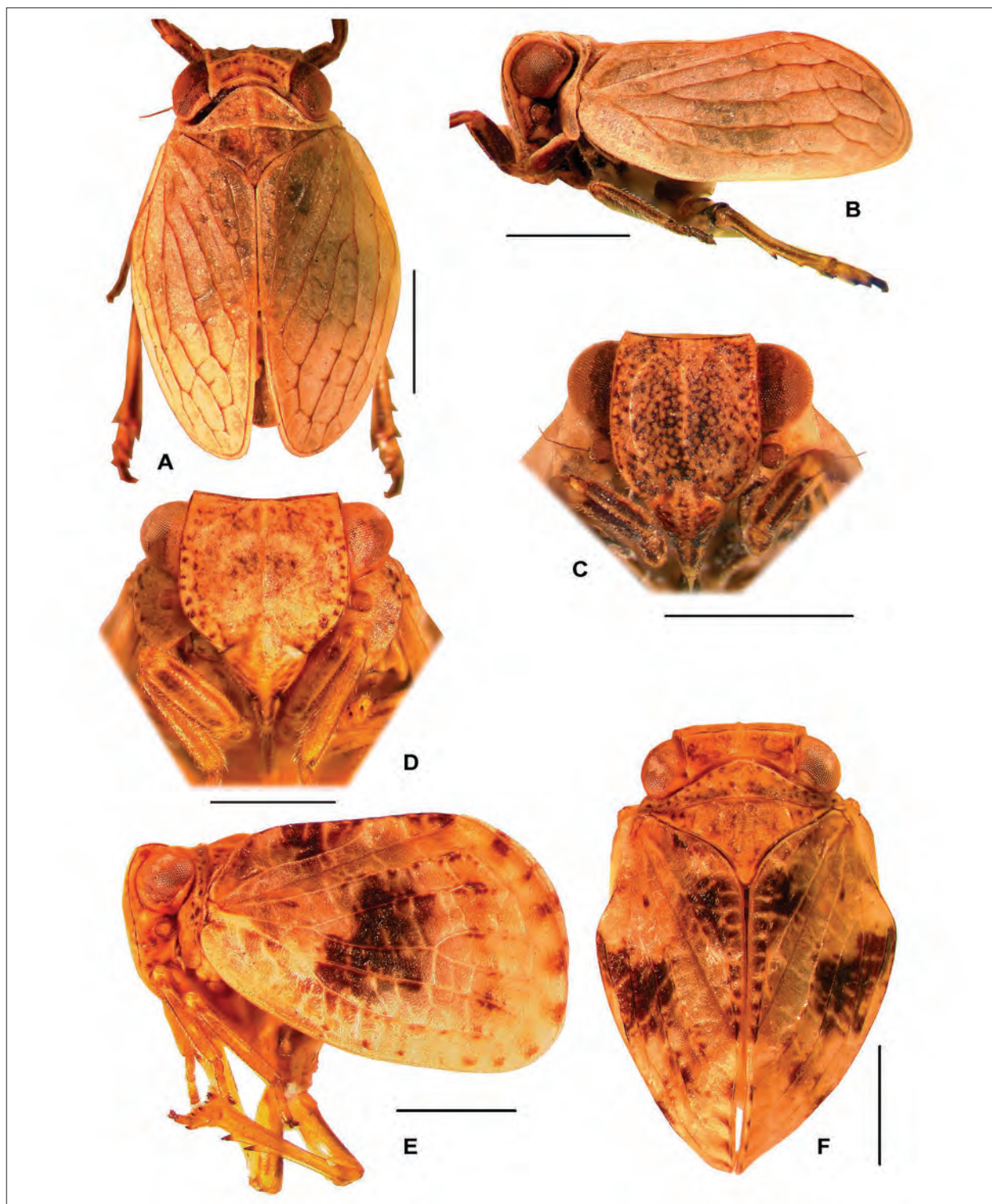


Plate 25. a, *Granum pooti* (Dlabola), female, dorsal view; b, same, lateral view; c, same, frontal view; d, *Corymbius tekirdagicus* (Dlabola), male, frontal view; e, same, lateral view; f, same, dorsal view.

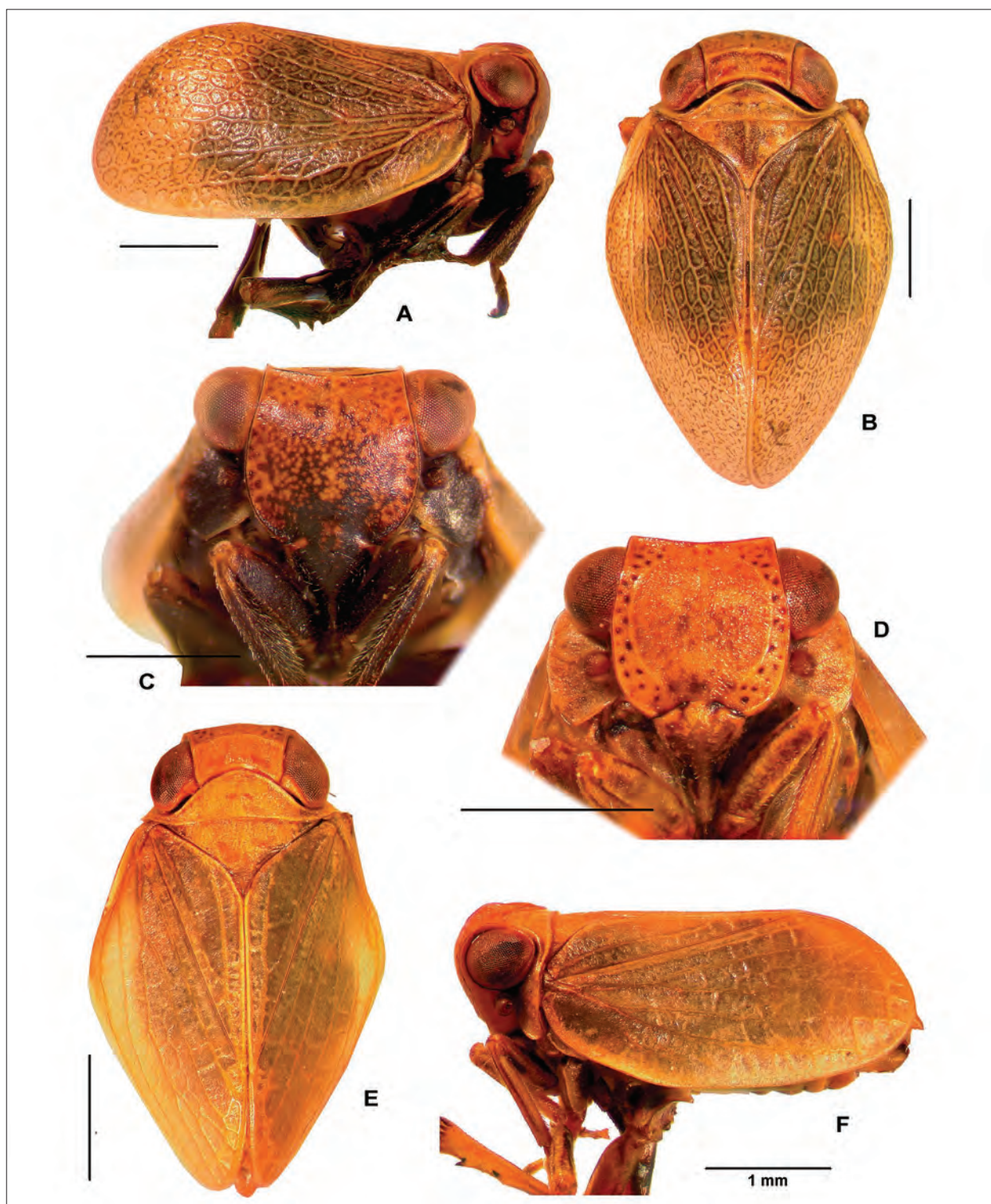


Plate 26. a, *Falcidius apterus* (Fabricius), female, lateral view; b, same, dorsal view; c, same, frontal view; d, *Falcidius scipionis* Gnezdilov & Wilson, male (paratype), frontal view; e, same, dorsal view; f, same, lateral view.

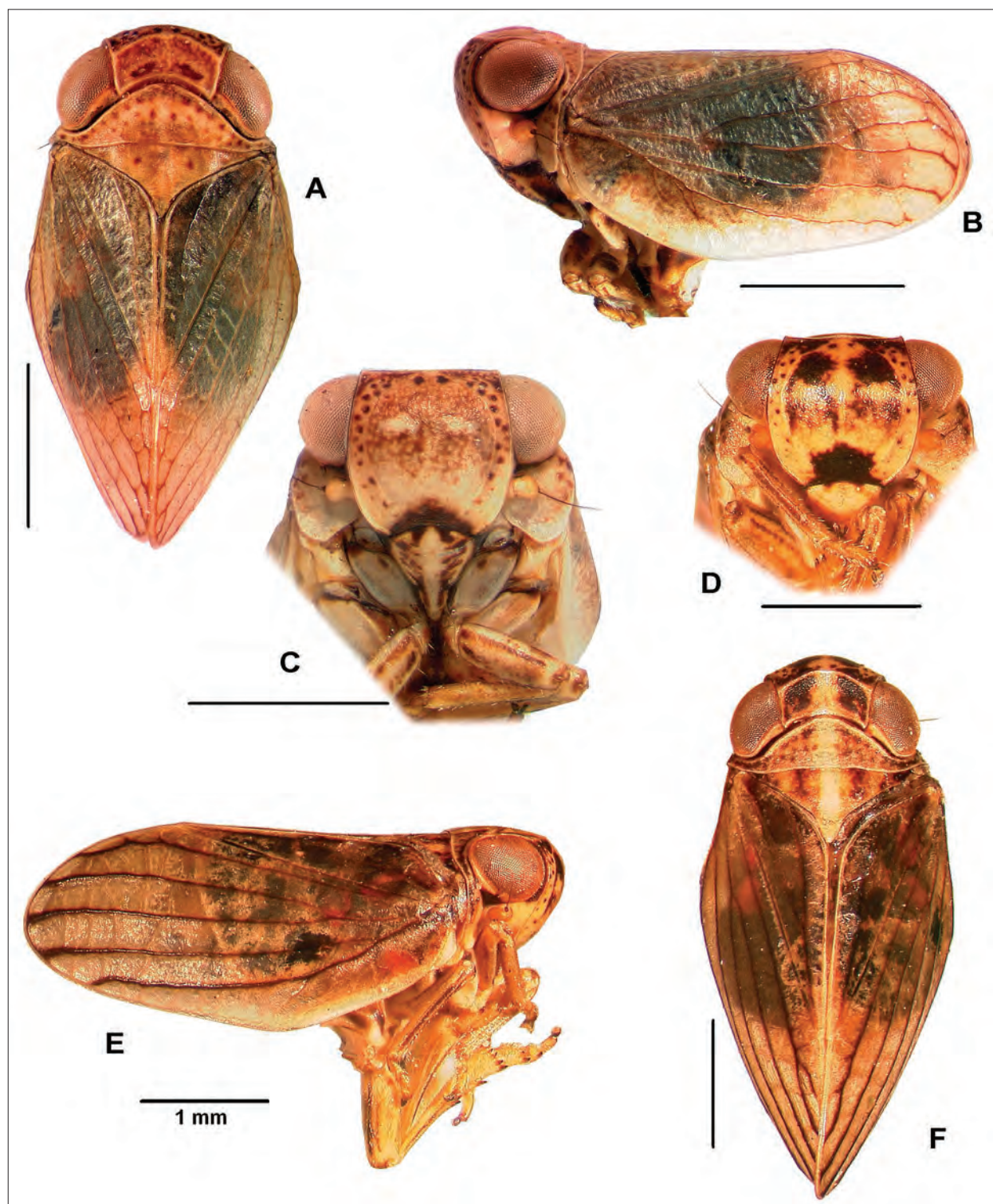


Plate 27. a, *Falcidius hannibal* Gnezdilov & Wilson, male (paratype), dorsal view; b, same, lateral view; c, same, frontal view; d, *Falcidius duffelsicus* Dlabola, female, frontal view; e, same, lateral view; f, same, dorsal view.

***Falcidius limbatus* (A. Costa)**

Hysteropterum limbatum A. Costa, 1864: 137.

Distribution: Algeria, Italy (Calabria Province, Sicily I.).

Identification: Gnezdilov & Wilson 2008.

***Falcidius marocanus* Bergevin**

Falcidius marocanus Bergevin, 1923b: 80.

Falcidius bergevini Lindberg, 1963: 29, syn. fide Gnezdilov & Wilson 2008: 1461.

Distribution: Morocco.

Identification: Gnezdilov & Wilson 2008.

***Falcidius scipionis* Gnezdilov & Wilson**

Falcidius scipionis Gnezdilov & Wilson, 2008: 1468.

Distribution: Algeria.

Identification: Gnezdilov & Wilson 2008.

Photos (Pl. 26, figs d–f): Algeria (MNHN): ♂ (paratype), frontal, dorsal and lateral views.

Genus *Fieberium* Dlabola

Dlabola, 1980a: 232. Type species: *Hysteropterum impressum* Fieber, 1877.

Lyrofrontium Dlabola, 1982: 119 (Type species: *Hysteropterum paludum* Bergevin, 1918), syn. fide Gnezdilov 2003a: 29.

Composition and distribution: 12 species (one of them with 2 subspecies) distributed in the Mediterranean Basin. One unidentified species is known from the Balearic Islands (Ibiza I.) and another one – from Sicily I. The genus is in need of revision.

***Fieberium bergevini* (Dlabola)**

Lyrofrontium bergevini Dlabola, 1984: 46.

Distribution: Algeria.

Identification: Dlabola 1984.

***Fieberium candidum* (Bergevin)**

Hysteropterum candidum Bergevin, 1919c: 260.

Distribution: Algeria.

Identification: Dlabola 1984.

***Fieberium corsicum* (Dlabola)**

Agalmatium corsicum Dlabola, 1982: 157.

Distribution: France (Corsica I.), Spain.

Identification: Dlabola 1982.

***Fieberium deserticolum* (Linnavuori)**

Hysteropterum paludum deserticola Linnavuori, 1962: 15.

Distribution: Israel.

Identification: Linnavuori 1962.

***Fieberium flavosuturale* (Lindberg)**

Hysteropterum flavosuturale Lindberg, 1956: 15.

Distribution: Morocco.

Identification: Lindberg 1956.

***Fieberium impressum* (Fieber)**

Hysteropterum impressum Fieber, 1877: 31.

Distribution: ?Algeria (Puton 1875), ?Portugal (Puton 1886), Spain, ?Morocco (Linnavuori 1956).

Identification: Gnezdilov 2003a, Gnezdilov, Soulier-Perkins & Bourgoin 2011.

Photos (Pl. 28, figs d–f): Spain, Tarragona (KDB): ♀, frontal, dorsal and lateral views.

***Fieberium nigradorsale* (Matsumura)**

Hysteropterum nigradorsale Matsumura, 1910: 21.

Distribution: Morocco.

Identification: Dlabola 1984.

Photos (Pl. 28, figs a–c): Morocco (ZIN): ♀, frontal, dorsal and lateral views.

***Fieberium normandi* (Bergevin)**

Hysteropterum normandi Bergevin, 1920b: 87.

Distribution: Tunisia.

Identification: Dlabola 1984.

***Fieberium oranense* (Matsumura)**

Hysteropterum oranense Matsumura, 1910: 22.

Hysteropterum melanostictum Bergevin, 1917c: 107, syn. fide Dlabola 1984: 42.

Hysteropterum leucodictyon Bergevin, 1917b: 203, syn. fide Dlabola 1984: 42.

Distribution: Algeria, Morocco.

Identification: Bergevin 1917, Dlabola 1984.

***Fieberium pallidellum* (Matsumura)**

Hysteropterum pallidellum Matsumura, 1910: 27.

Distribution: ?Portugal (Oshanin 1912), Spain.

Identification: Dlabola 1984.

***Fieberium paludum paludum* (Bergevin)**

Hysteropterum paludum Bergevin, 1918d: 338.

Distribution: Algeria, Tunisia.

Identification: Dlabola 1984.

***Fieberium paludum altivagum* (Linnavuori)**

Hysteropterum paludum altivagum Linnavuori, 1965: 41.

Distribution: Tunisia.

Identification: Linnavuori 1965.

***Fieberium royeri* (Bergevin)**

Hysteropterum royeri Bergevin, 1921: 241.

Distribution: Morocco.

Identification: Dlabola 1984.

Genus *Granum* Gnezdilov

Gnezdilov, 2003a: 44. Type species: *Hysteropterum pooti* Dlabola, 1989.

Composition and distribution: Monotypical genus known from Spain.

***Granum pooti* (Dlabola)**

Hysteropterum pooti Dlabola, 1989: 29.

Distribution: Spain.

Identification: Dlabola 1989.

Photos (Pl. 25, figs a–c): Spain, Huesca (ZIN): ♀, frontal, dorsal and lateral views.

Genus *Hysteropterum* Amyot & Serville

Amyot & Serville, 1843: 519. Type species: *Hysteropterum schaefferi* Metcalf, 1958 (= *Issus immaculatus* Herrich-Schaeffer, 1836 nec *Cercopis immaculata* Fabricius, 1794).

Composition and distribution: 6 species distributed in Southwestern and Central Europe.

***Hysteropterum albaceticum* Dlabola**

Hysteropterum albaceticum Dlabola, 1983: 132.

Distribution: Spain.

Identification: Dlabola 1983.

Photos (Pl. 29, figs a–c): Spain (ZIN): ♀, frontal, dorsal and lateral views.

***Hysteropterum alicantium* Dlabola**

Hysteropterum alicantium Dlabola, 1986: 193.

Hysteropterum alciranum Gnezdilov, 2003a: 47, syn. fide Gnezdilov 2010: 416.

Distribution: Spain.

Identification: Dlabola 1986.

***Hysteropterum dolichotum* Gnezdilov & Mazzoni**

Hysteropterum dolichotum Gnezdilov & Mazzoni, 2004b: 2.

Distribution: France, Italy, Spain.

Identification: Gnezdilov & Mazzoni 2004b.

***Hysteropterum reticulatum* (Herrich-Schäffer)**

Issus reticulatus Herrich-Schäffer, 1835: 65.

Hysteropterum schaefferi Metcalf, 1958: 277 (nom. nov. pro *Issus immaculatus* Herrich-Schäffer, 1836 nec *Cercopis immaculata* Fabricius, 1794), syn. fide Holzinger, Kammerlander & Nickel 2003: 465.

Distribution: Austria, Croatia, Italy, Slovenia.

Identification: Holzinger, Kammerlander & Nickel 2003.

Biology: Holzinger, Kammerlander & Nickel 2003.

Photos (Pl. 29, figs d–f): Slovenia (ZIN): ♀, frontal, dorsal and lateral views.

New record: 1♂, Croatia, Adria, 300 m, E supra Karlobaq, “Ju 81-3”, 19.VI.1981, M. Asche & H. Hoch leg. (CAH).

***Hysteropterum tkalcui* (Dlabola)**

Falcidius tkalcui Dlabola, 1980a: 216.

Distribution: France (Corsica I.).

Identification: Dlabola 1980a.

***Hysteropterum vasconicum* Gnezdilov**

Hysteropterum vasconicum Gnezdilov, 2003a: 48.

Distribution: Andorra, France, Spain.

Identification: Gnezdilov 2003a.

Genus *Inflatodus* Dlabola

Dlabola, 1982: 122. Type species: *Hysteropterum viridans* Dlabola, 1974.

Composition and distribution: 6 species known from Transcaucasia and Iran.

***Inflatodus astyages* Dlabola**

Inflatodus astyages Dlabola, 1982: 124.

Distribution: Iran.

Identification: Dlabola 1982.

***Inflatodus carinatus* (Logvinenko)**

Bubastia carinata Logvinenko, 1978: 799.

Distribution: Azerbaijan (Nakhchivan Republic).

Identification: Logvinenko 1978.

***Inflatodus kyaxares* Dlabola**

Inflatodus kyaxares Dlabola, 1982: 122.

Distribution: Iran.

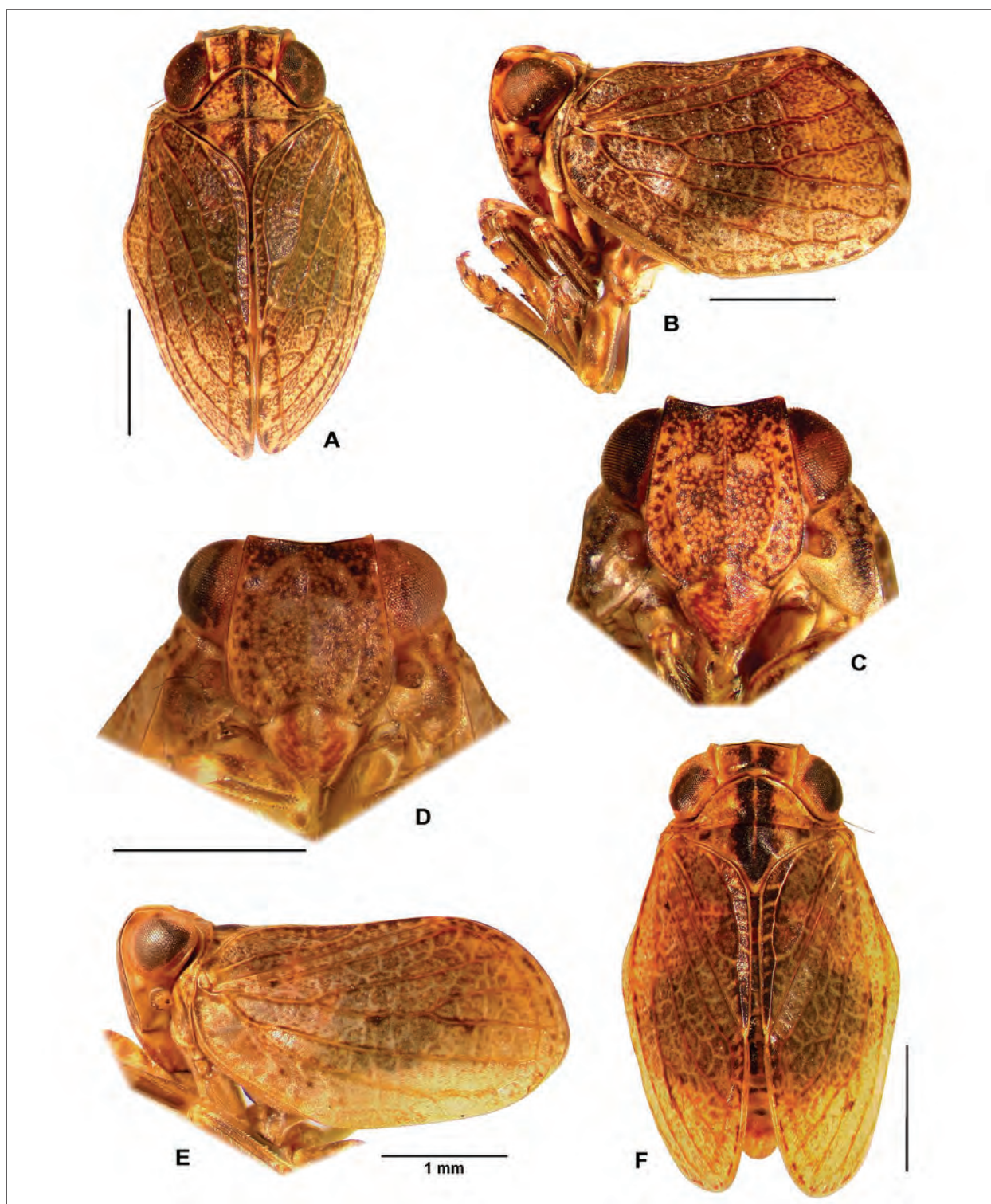


Plate 28. a, *Fieberium nigridorsale* (Matsumura), female, dorsal view; b, same, lateral view; c, same, frontal view; d, *Fieberium impressum* (Fieber), female, frontal view; e, same, lateral view; f, same, dorsal view.

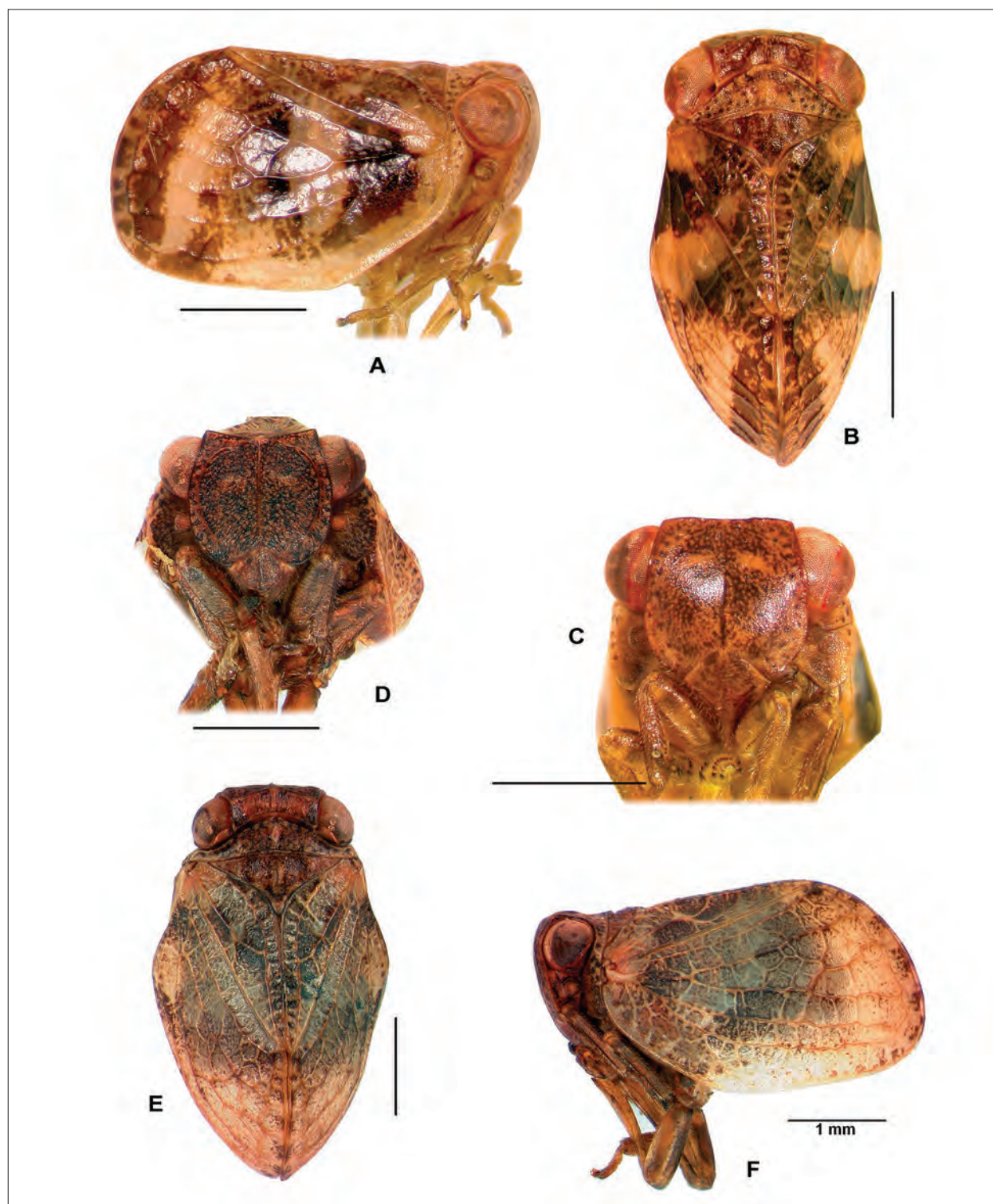


Plate 29. a, *Hysteropterum albaceticum* Dlabola, female, lateral view; b, same, dorsal view; c, same, frontal view; d, *Hysteropterum reticulatum* (Herrich-Schäffer), female, frontal view; e, same, dorsal view; f, same, lateral view.

Identification: Dlabola 1982.

Photos (Pl. 30, figs b–d): Iran (NMPC): ♂ (holotype), frontal view; ♀ (paratype), dorsal and lateral views.

***Inflatodus parvus* (Logvinenko)**

Bubastia parva Logvinenko, 1977b: 64.

Distribution: Azerbaijan.

Identification: Logvinenko 1977b.

***Inflatodus persicus* (Dlabola)**

Hysteropterum persicum Dlabola, 1981a: 181.

Distribution: Iran.

Identification: Dlabola 1981a.

Photos (Pl. 30, fig. a): Iran, Abyek (NMPC): ♀ (paratype), dorsal view.

***Inflatodus viridans* (Dlabola)**

Hysteropterum viridatum Dlabola, 1971a: 380.

Hysteropterum viridans Dlabola, 1974a: 44 (nom. nov. pro *Hysteropterum viridatum* Dlabola, 1971 nec Caldwell, 1945).

Distribution: Iran.

Identification: Dlabola 1971a.

Photos (Pl. 30, figs e–g): Iran, Semnan (NMWC): ♂, frontal, dorsal and lateral views.

Genus *Iranodus* Dlabola

Dlabola, 1980a: 203. Type species: *Iranodus transversalis* Dlabola, 1980.

Composition and distribution: 6 species — all endemics to Iran.

***Iranodus amygdalinus* Dlabola**

Iranodus amygdalinus Dlabola, 1980a: 205.

Distribution: Iran.

Identification: Dlabola 1980a.

Photos (Pl. 31, figs a–c): Iran, Bezan (NMPC): ♂ (paratype), frontal, dorsal and lateral views.

***Iranodus dumetorus* (Dlabola)**

Hysteropterum dumetorum Dlabola, 1981a: 185.

Distribution: Iran.

Identification: Dlabola 1981a.

***Iranodus khatunus* (Dlabola)**

Hysteropterum khatunum Dlabola, 1981a: 187.

Distribution: Iran.

Identification: Dlabola 1981a.

***Iranodus nishabur* Dlabola**

Iranodus nishabur Dlabola, 1982: 128.

Distribution: Iran.

Identification: Dlabola 1982.

***Iranodus repandus* (Dlabola)**

Hysteropterum repandum Dlabola, 1981a: 182.

Distribution: Iran.

Identification: Dlabola 1981a.

***Iranodus transversalis* Dlabola**

Iranodus transversalis Dlabola, 1980a: 204.

Distribution: Iran.

Identification: Dlabola 1980a.

Genus *Kervillea* Bergevin

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

Hysterella Logvinenko, 1977a: 849 (Type species: *Hysterella coronata* Logvinenko, 1977), syn. fide Gnezdilov 2002b: 148.

Quadrastylum Dlabola, 1979a: 283 (Type species: *Quadrastylum campanuliforme* Dlabola, 1979), syn. fide Gnezdilov 2002b: 148.

Falcidiopsis Kusnezov, 1930a: 98 (Type species: *Falcidiopsis kirgisorum* Kusnezov, 1930), syn. fide Gnezdilov 2010: 417.

Composition and distribution: 20 species distributed in the Eastern Mediterranean Basin, Asia Minor, Ukraine, Southern Russia, and Kazakhstan.

***Kervillea anatolica* (Dlabola)**

Falcidius anatolicus Dlabola, 1979a: 280.

Distribution: Turkey.

Identification: Dlabola 1979a.

***Kervillea ancyrana* Bergevin**

Kervillea ancyrana Bergevin, 1918a: 105.

Hysteropterum parvissimum Dlabola, 1957: 31, syn. fide Kartal & Miroğlu 2011: 58.

Kervillea placophora sensu Gnezdilov 2002b: 149.

Distribution: Turkey.

Identification: Kartal & Miroğlu 2011.

***Kervillea aylae* (Dlabola)**

Quadrastylum aylae Dlabola, 1987c: 302.

Distribution: Turkey.

Identification: Dlabola 1987c.

Kervillea basinigra* (Dlabola)Quadrastylum basiniger* Dlabola, 1982: 141.**Distribution:** Greece, Turkey.**Identification:** Dlabola 1982.***Kervillea beysehirica* (Dlabola)***Quadrastylum beysehiricum* Dlabola, 1983: 129.**Distribution:** Turkey.**Identification:** Dlabola 1983.***Kervillea campanuliformis* (Dlabola)***Quadrastylum campanuliforme* Dlabola, 1979a: 283.**Distribution:** Turkey.**Identification:** Dlabola 1979a.***Kervillea conspurcata* (Spinola)***Issus conspurcatus* Spinola, 1839: 363.*Hysteropterum dohrnii* Kirschbaum, 1868: 53, syn. fide Melichar 1906: 144.**Distribution:** Bulgaria, Hungary, Republic of Macedonia, Slovakia, Slovenia, Romania.**Identification:** Gnezdilov 2002b, Holzinger, Kammerlander & Nickel 2003.**Photos (Pl. 32, figs d–f):** Slovakia, Darkán (NMWC): ♂, frontal, dorsal and lateral views.***Kervillea coronata* (Logvinenko)***Hysterella coronata* Logvinenko, 1977a: 849.**Distribution:** Ukraine.**Identification:** Logvinenko 1977a, Gnezdilov 2002b.***Kervillea epunctata* (Mitjaev)***Falcidiopsis epunctatus* Mitjaev, 1971: 71.**Distribution:** Kazakhstan.**Identification:** Mitjaev 1971.**Biology:** Mitjaev 2002.***Kervillea gaziantepica* Dlabola***Kervillea gaziantepica* Dlabola, 1985: 224.**Distribution:** Turkey.**Identification:** Dlabola 1985.***Kervillea jahjai* (Dlabola)***Quadrastylum jahjai* Dlabola, 1983: 130.**Distribution:** Turkey.**Identification:** Dlabola 1983.***Kervillea kirgisorum* (Kusnezov)***Falcidiopsis kirgisorum* Kusnezov, 1930a: 98.*Hysteropterum pygmaeum* Vilbaste, 1961: 317, syn. fide Gnezdilov 2003a: 63.**Distribution:** Kazakhstan, Russia (Belgorod Province, Kalmyk Republic, Stavropol Territory), Ukraine.**Identification:** Logvinenko 1975a.**Biology:** Mitjaev 2002**Photos (Pl. 32, figs a–c):** Kazakhstan, Ak-tyubinsk (ZIN): ♀ (syntype), frontal, dorsal and lateral views.***Kervillea kulaica* (Dlabola)***Quadrastylum kulaicum* Dlabola, 1982: 140.**Distribution:** Turkey.**Identification:** Dlabola 1982.***Kervillea lodosica* (Dlabola)***Quadrastylum lodosicum* Dlabola, 1980a: 239.**Distribution:** Turkey.**Identification:** Dlabola 1980a.***Kervillea meridionalis* (Dlabola)***Falcidiopsis meridionalis* Dlabola, 1983: 132.**Distribution:** Turkey.**Identification:** Dlabola 1983.***Kervillea nervosa* (Fieber)***Hysteropterum nervosum* Fieber, 1877: 11.**Distribution:** Southern Europe.**Identification:** Fieber 1877.**Note:** Authentically known only after type specimen which is missing abdomen. Proper identification of the species is difficult. The country of type locality is unknown.***Kervillea placophora* (Horváth)***Hysteropterum placophorum* Horváth, 1905: 188.**Distribution:** ?Syria (Melichar 1906), Turkey.**Identification:** Gnezdilov 2002b.***Kervillea scoleogramma* (Fieber)***Hysteropterum scoleogramma* Fieber, 1877: 13.*Hysteropterum fallaciosum* Matsumura, 1910: 26, syn. fide Dlabola 1984: 57.**Distribution:** Greece, Turkey.**Identification:** Dlabola 1980a.

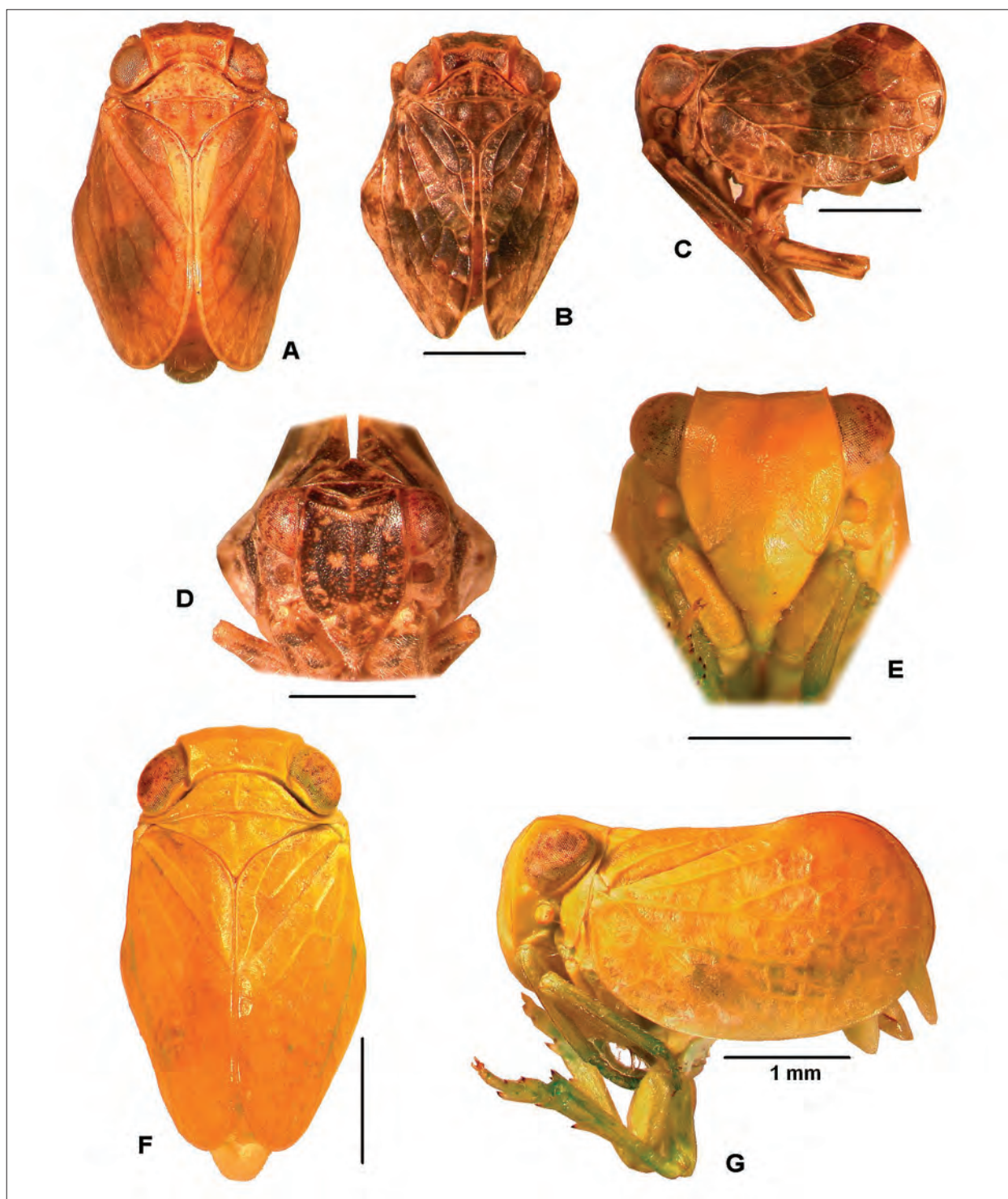


Plate 30. a, *Inflatodus persicus* (Dlabola), female (paratype), dorsal view; b, *Inflatodus kyaxares* Dlabola, female (paratype), dorsal view; c, same, lateral view; d, same, male (paratype), frontal view; e, *Inflatodus viridans* (Dlabola), male, frontal view; f, same, dorsal view; g, same, lateral view.

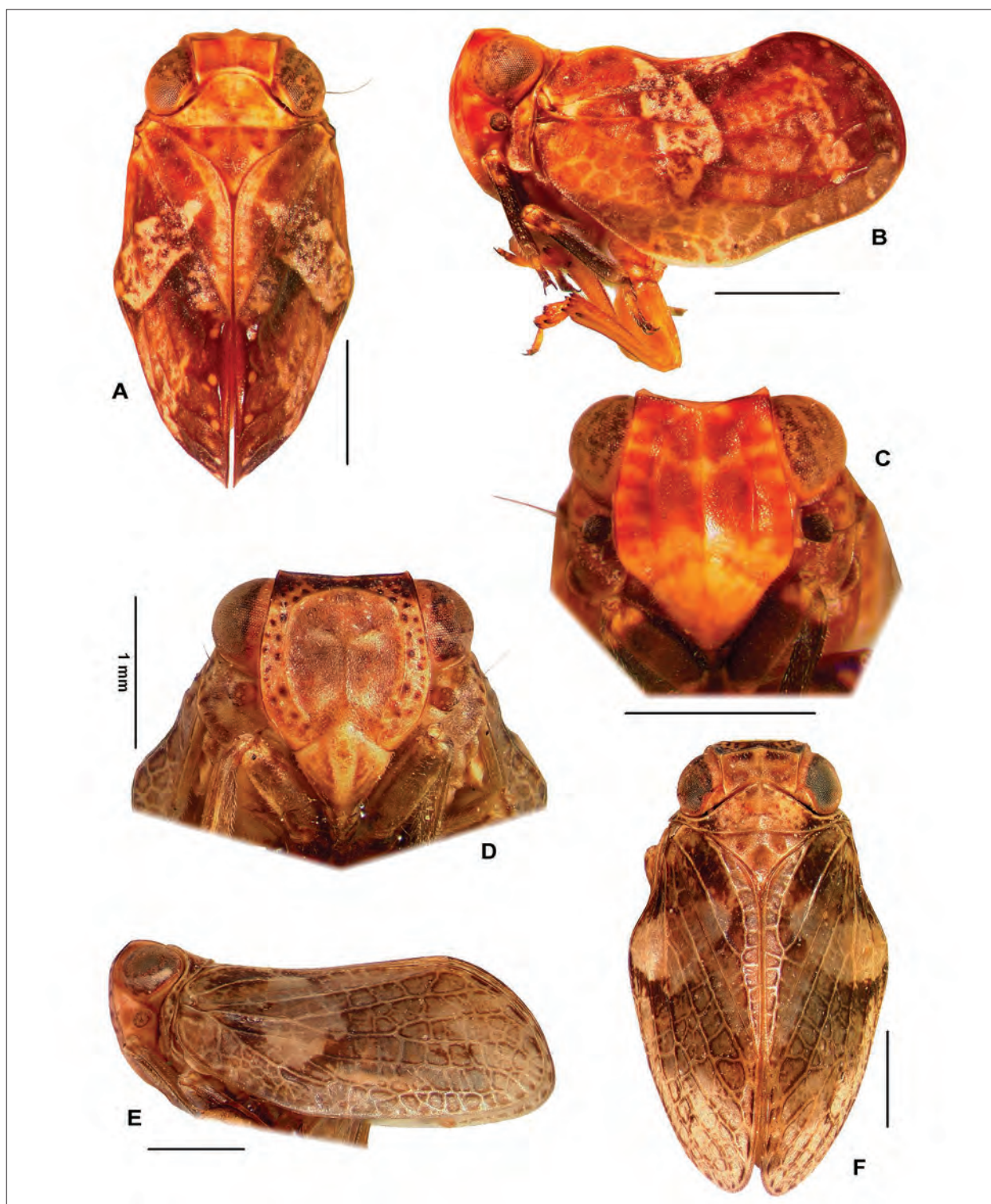


Plate 31. a, *Iranodus amygdalinus* Dlabola, male (paratype), dorsal view; b, same, lateral view; c, same, frontal view; d, *Kovacsiana abyssinica* Synave, female, frontal view; e, same, lateral view; f, same, dorsal view.

***Kervillea syriaca* (Melichar)**

Hysteropterum syriacum Melichar, 1906: 145.

Distribution: Greece, ?Palestine (Bodenheimer 1937), Syria.

Identification: Dlabola 1980a.

***Kervillea tarsusana* (Dlabola)**

Quadrastylum tarsusanum Dlabola, 1989: 25.

Distribution: Turkey.

Identification: Dlabola 1989.

Genus *Kovacsiana* Synave

Synave, 1956: 12. Type species: *Kovacsiana abyssinica* Synave, 1956.

Composition and distribution: 3 species known from the Eastern Africa and Arabian Peninsula. One species is also recorded from Rhodes I. (Greece).

***Kovacsiana abyssinica* Synave**

Kovacsiana abyssinica Synave, 1956: 14.

Distribution: Ethiopia, Greece (Rhodes I.), Yemen.

Identification: Synave 1956.

Photos (Pl. 31, figs d–f): Yemen, “W Aden Prot” (NMWC): ♀, frontal, dorsal and lateral views.

Genus *Latilica* Emeljanov

Emeljanov, 1971: 622. Type species: *Latilica emeljanovi* Logvinenko, 1975, by subsequent fixation of the type species by Emeljanov 2001a: 99.

Dalmatium Dlabola, 1980a: 231 (Type species: *Hysteropterum maculipes* Melichar, 1906), syn. fide Emeljanov 2001a: 99.

Composition and distribution: 10 species distributed mostly in the Eastern Mediterranean Basin.

***Latilica abdunnouri* Gnezdilov**

Latilica abdunnouri Gnezdilov, 2004a: 624.

Distribution: Lebanon.

Identification: Gnezdilov 2004a.

***Latilica antalyica* (Dlabola)**

Kovacsiana antalyica Dlabola, 1986: 187.

Distribution: Greece including the islands, Turkey.

Identification: Dlabola 1986.

***Latilica forficeps* (Dlabola)**

Kovacsiana forficeps Dlabola, 1986: 189.

Distribution: Turkey.

Identification: Dlabola 1986.

***Latilica libanensis* Gnezdilov**

Latilica libanensis Gnezdilov, 2004a: 621.

Distribution: Lebanon.

Identification: Gnezdilov 2004a.

***Latilica maculipes* (Melichar)**

Hysteropterum maculipes Melichar, 1906: 141.

Latilica emeljanovi Logvinenko, 1975a: 217, syn. fide Gnezdilov & Mazzoni 2004a: 147.

Distribution: Bosnia and Herzegovina, Croatia, Cyprus, France, Greece, Israel, Italy including the islands (Sardinia I., Sicily I., Linosa I., Pantelleria I.), Palestine, Russia (Krasnodar Territory), Slovenia, Turkey, Ukraine (Crimea).

Identification: Gnezdilov & Mazzoni 2004a.

Biology: Gnezdilov & Mazzoni 2004a.

Photos (Pl. 33, figs a–d): Italy (ZIN): ♂ (Tuscany), frontal, dorsal and lateral views; ♀ (Lazio), dorsal view.

***Latilica melichari* Gnezdilov**

Latilica melichari Gnezdilov, 2004a: 622.

Distribution: Lebanon, Turkey.

Identification: Gnezdilov 2004a.

***Latilica oertzeni* (Matsumura)**

Hysteropterum oertzeni Matsumura, 1910: 20.

Hysteropterum quercus Lindberg, 1948: 117, syn. fide Gnezdilov & Mazzoni 2004a: 149.

Distribution: Cyprus, Greece including Crete I. and Skiathos I., Turkey.

Identification: Gnezdilov & Mazzoni 2004a.

***Latilica petrica* (Dlabola)**

Kovacsiana petrica Dlabola, 1985: 232.

Distribution: Jordan.

Identification: Dlabola 1985.

***Latilica retamae* (Linnavuori)**

Hysteropterum retamae Linnavuori, 1962: 17.

Distribution: Israel.

Identification: Linnavuori 1962.

Photos (Pl. 33, figs e–g): Israel (NMWC): ♂, frontal, dorsal and lateral views.

***Latilica tunetana* (Matsumura)**

Hysteropterum tunetanum Matsumura, 1910: 24.

Hysteropterum issifrons Bergevin, 1918b: 374, syn. fide Gnezdilov & Mazzoni 2004a: 149.

Distribution: Algeria, Egypt, Greece (Crete I.), Italy including the islands (Linosa I., Pantelleria I., Sardinia I., Sicily I.), Libya, Montenegro, Spain (Balearic Islands: Majorca I., Formentera I.), Tunisia.

Identification: Gnezdilov & Mazzoni 2004a.

Biology: Gnezdilov & Mazzoni 2004a.

New record: 1♂, 3♀, Montenegro, Kruce, 25.IX.1976, "Trockenhang an Wacholder", Well-schmied leg. (ZSM, ZIN).

Genus *Latematium* Dlabola

Dlabola, 1979a: 283. Type species: *Hysteropterum latifrons* Fieber, 1877.

Composition and distribution: 2 subgenera with 3 species distributed in Balkan Peninsula.

Key to subgenera

1. Fore wings with smoothed veins (Pl. 34, fig. d, Pl. 35, fig. c). Male anal tube broadening apically. Dorso-lateral phallobase lobes without processes. Ventral phallobase lobe without additional lobes. Aedeagus without ventral hooks *Latematium* Dlabola
- Fore wings with well marked veins (Pl. 34, fig. a). Male anal tube narrowing apically. Each dorso-lateral phallobase lobe with narrow weakly sclerotized process. Ventral phallobase lobe in shape of three lobes apically. Aedeagus with pair of short ventral hooks *Atticus* Gnezdilov

Subgenus *Latematium* Dlabola

Dlabola, 1979a: 283. Type species: *Hysteropterum latifrons* Fieber, 1877.

Latematium cygnetis (Fieber)

Hysteropterum cygnetis Fieber, 1877: 27.

Distribution: Croatia.

Identification: Dlabola 1979a, Gnezdilov, Soulier-Perkins & Bourgoin 2011.

Photos (Pl. 34, figs d–f): Croatia, Split (BMNH): ♀, frontal, dorsal and lateral views.

Latematium latifrons (Fieber)

Hysteropterum latifrons Fieber, 1877: 22.

Distribution: Bulgaria, Greece, Hungary, Republic of Macedonia, ?Romania (Nast 1987), Serbia.

Identification: Dlabola 1979a.

Photos (Pl. 35, figs a–c): Bulgaria, Boboshevo (ZIN): ♀, frontal, dorsal and lateral views.

Subgenus *Atticus* Gnezdilov

Gnezdilov, 2003a: 67 (as subgenus). Type species: *Latematium graecicum* Dlabola, 1982.

Latematium graecicum Dlabola

Latematium graecicum Dlabola, 1982: 152.

Distribution: Greece.

Identification: Dlabola 1982.

Photos (Pl. 34, figs a–c): Greece, Evia I. (SDC): ♂, frontal, dorsal and lateral views.

Genus *Lethierium* Dlabola

Dlabola, 1980a: 235. Type species: *Hysteropterum reiberi* Lethierry, 1878.

Composition and distribution: 3 species distributed in Morocco and Algeria.

Lethierium cedricolum (Dlabola)

Hysteropterum cedricolum Dlabola, 1989: 28.

Distribution: Morocco.

Identification: Dlabola 1989.

Photos (Pl. 36, figs a–c): Morocco (BMNH): ♂ (paratype), frontal, dorsal and lateral views.

Lethierium juniperi (Bergevin)

Hysteropterum juniperi Bergevin, 1915: 71.

Distribution: Algeria.

Identification: Dlabola 1984.

Lethierium reiberi (Lethierry)

Hysteropterum reiberi Lethierry, 1878: 27.

Distribution: Algeria.

Identification: Dlabola 1980a.

Photos (Pl. 36, figs d–f): Algeria, Aïn Séfra (Oran) (MNH): ♂, frontal, dorsal and lateral views.

Genus *Libanissum* Dlabola

Dlabola, 1980a: 218. Type species: *Hysteropterum talhouki* Dlabola, 1974.

Irakopterum Dlabola, 1985: 225 (Type species: *Irakopterum trispinatum* Dlabola, 1985), syn. fide Gnezdilov & Wilson 2007: 302.

Composition and distribution: 5 species distributed in the Eastern Mediterranean Basin and the Middle East.

Libanissum circinalis Dlabola

Libanissum circinalis Dlabola, 1994: 61.

Distribution: Israel.

Identification: Dlabola 1994.

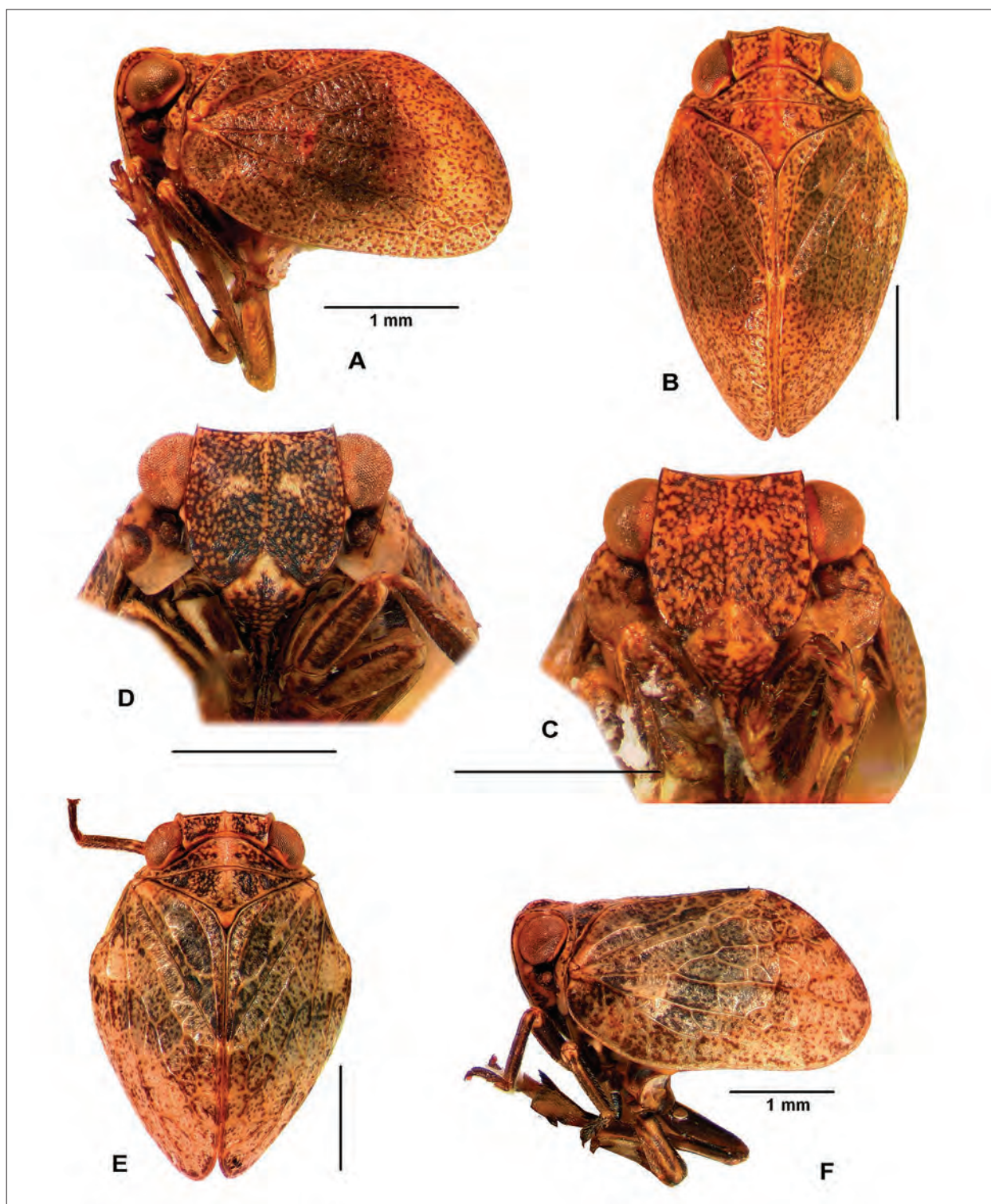


Plate 32. a, *Kervillea kirgisorum* (Kusnezov), female (syntype), lateral view; b, same, dorsal view; c, same, frontal view; d, *Kervillea conspurcata* (Spinola), male, frontal view; e, same, dorsal view; f, same, lateral view.

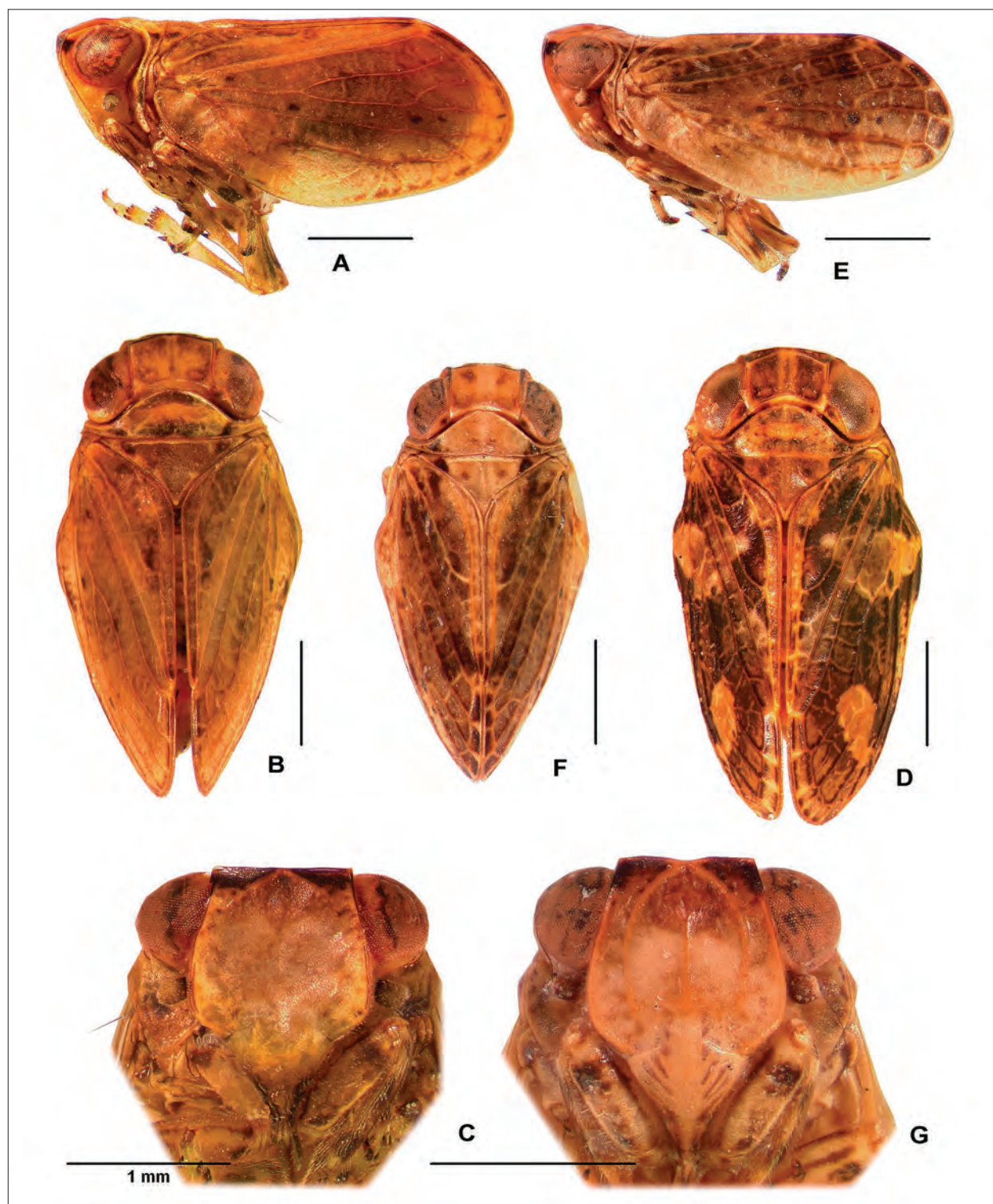


Plate 33. a, *Latilica maculipes* (Melichar), male, lateral view; b, same, dorsal view; c, same, frontal view; d, same, female, dorsal view; e, *Latilica retamae* (Linnavuori), male, lateral view; f, same, dorsal view; g, same, frontal view.

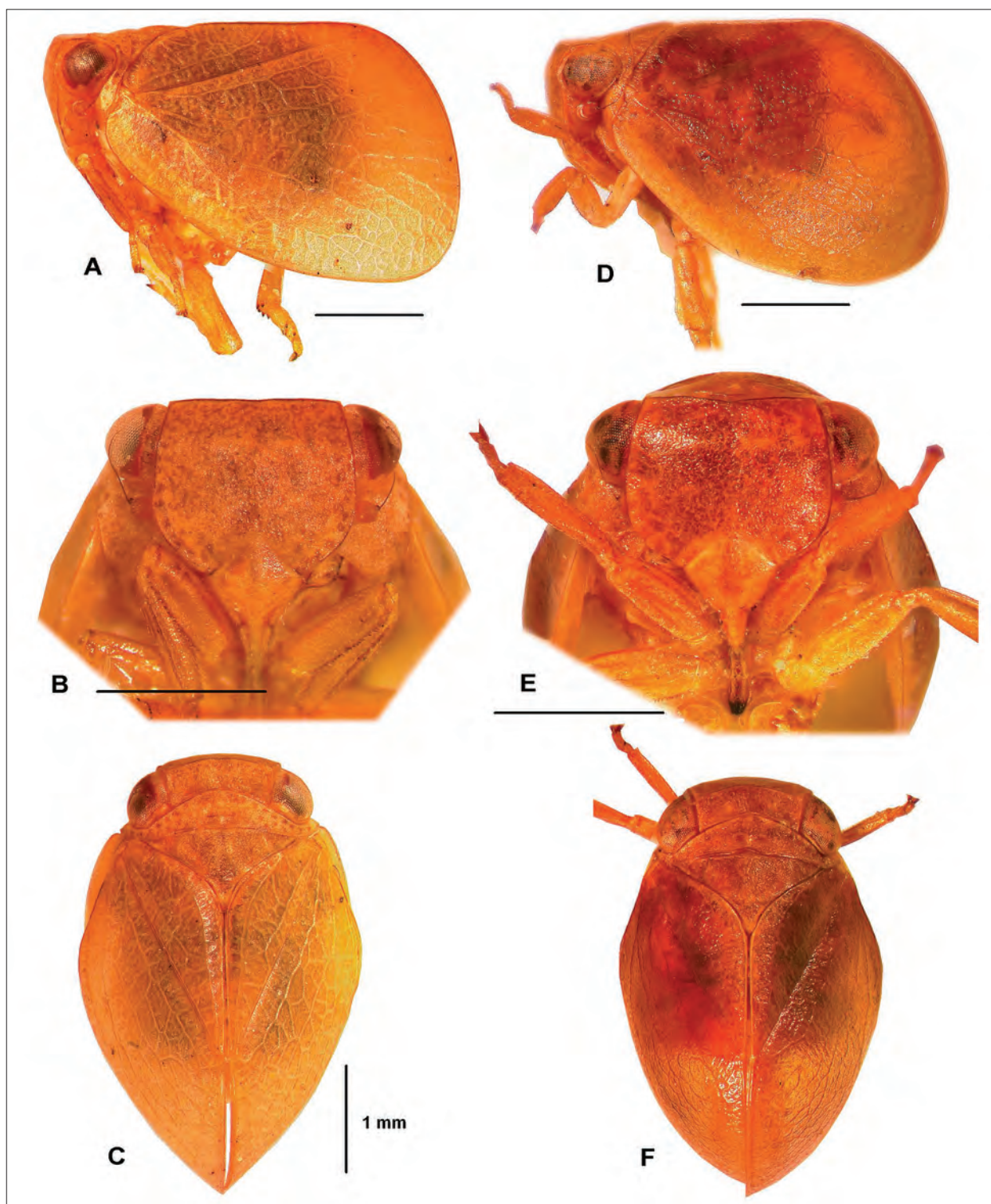


Plate 34. a, *Latematium (Atticus) graecicum* Dlabola, male, lateral view; b, same, frontal view; c, same, dorsal view; d, *Latematium (Latematium) cygnetis* (Fieber), female, lateral view; e, same, frontal view; f, same, dorsal view.

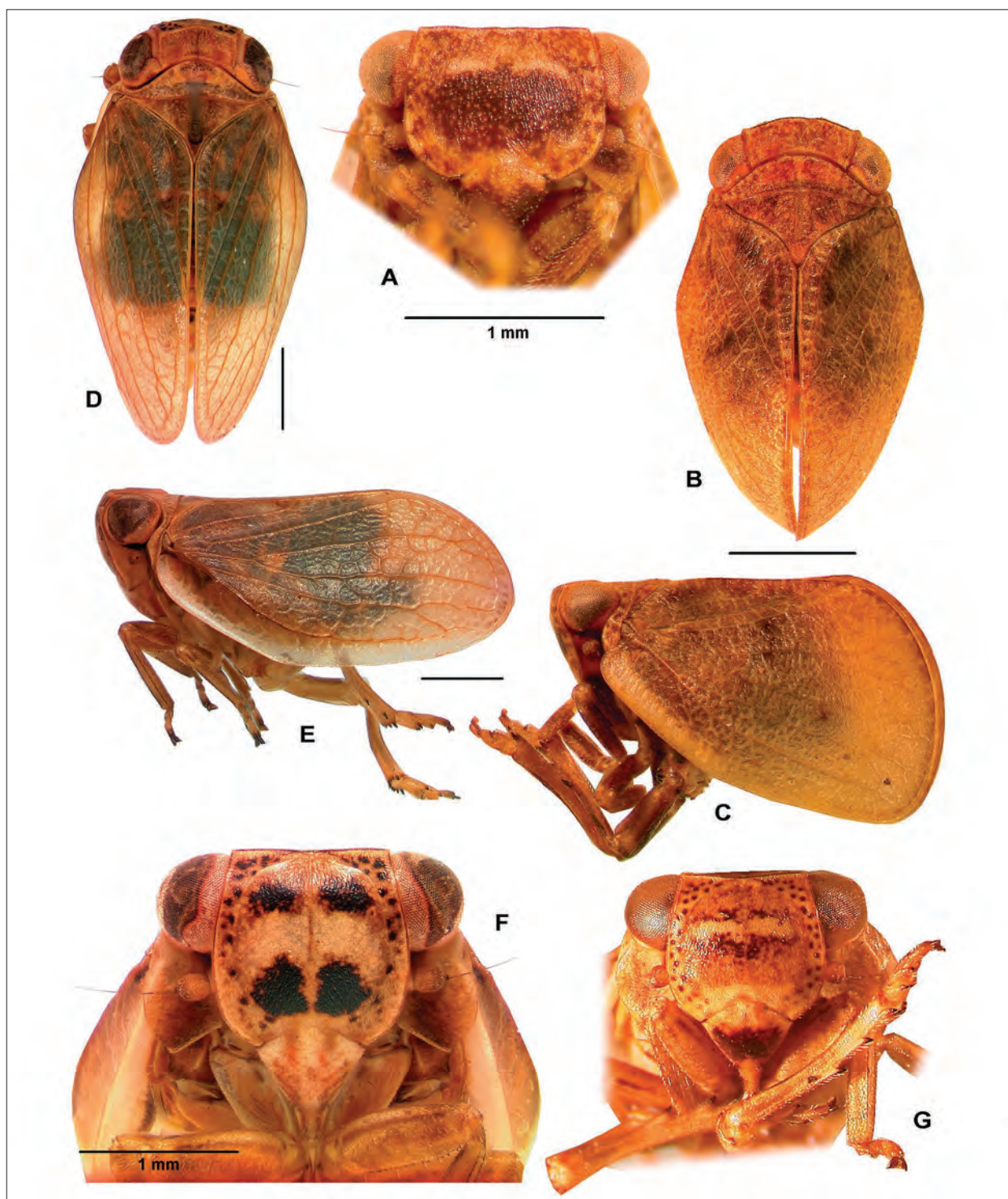


Plate 35. a, *Latematium (Latematium) latifrons* (Fieber), female, frontal view; b, same, dorsal view; c, same, lateral view; d, *Mulsantereum maculifrons* (Mulsant & Rey), female, dorsal view; e, same, lateral view; f, same, frontal view; g, *Mulsantereum novaki* (Wagner), female (paratype), frontal view.

Libanissum hermonicus* DlabolaLibanissum hermonicus* Dlabola, 1994: 59.**Distribution:** Syria.**Identification:** Dlabola 1994.**Photos (Pl. 37, figs a–c):** Syria (NMWC): ♀ (paratype), frontal, dorsal and lateral views.***Libanissum laminatum* (Horváth)***Hysteropterum laminatum* Horváth, 1911: 609.**Distribution:** Syria.**Identification:** Dlabola 1984.***Libanissum talhouki* (Dlabola)***Hysteropterum talhouki* Dlabola, 1974b: 126.**Distribution:** Cyprus, Israel, Lebanon, Syria.**Identification:** Dlabola 1974b.**Photos (Pl. 37, figs d–f):** Lebanon (NMWC): ♂, frontal, dorsal and lateral views.***Libanissum trispinatum* (Dlabola)***Irakopterum trispinatum* Dlabola, 1985: 225.**Distribution:** Iraq.**Identification:** Dlabola 1985.**Genus *Mycterodus* Spinola**Spinola, 1839: 341. Type species: *Issus nasutus* Herrich-Schäffer, 1835 (= *Cercopis immaculata* Fabricius, 1794).**Composition and distribution:** 6 subgenera with a total of 79 species distributed in Central and Southeastern Europe, Eastern Mediterranean Basin, Anatolia, Caucasus, Middle Asia, Iran and Iraq.**Key to subgenera**

1. First metatarsomere with single intermediate spine apically ***Montissus* Gnezdilov**
– First metatarsomere with 4–5 intermediate spines apically 2
2. First metatarsomere with 5 intermediate spines in entire row. Fore wings without hypocostal plate. Hind wings reaching apex of abdomen (except *M. batumus* which has hind wings rudimentary). Massive species, with always transverse coryphe. Phallobase with multiple denticate lateral processes (Pl. 9, fig. 3) ***Comporodus* Kocak**
– First metatarsomere with 4–5 intermediate spines in the interrupted row (3 + 1 or 4 + 1). Fore wings with or without hypocostal plate. Hind wings reaching apex of abdomen or rudimentary. Massive or gracile species

with transverse or elongate coryphe. Phallobase without multiple denticate lateral processes 3

3. Aedeagus with 1–2 pairs of ventral hooks 4

– Aedeagus without ventral hooks ***Aconosimus* Dlabola**

4. Ventral aedeagal hooks directed apically
- Aegaeum* Gnezdilov**

– Ventral aedeagal hooks directed basally (except *M. krameri*) 5

5. Body + head form an elongate oval in dorsal view (Pl. 38, fig. f)
- Semirotus* Dlabola**

– Body + head form a wide oval in dorsal view (Pl. 38, figs a–c) ***Mycterodus* Spinola****Subgenus *Mycterodus* Spinola**Spinola, 1839: 341. Type species: *Issus nasutus* Herrich-Schäffer, 1835 (= *Cercopis immaculata* Fabricius, 1794).**Composition and distribution:** 40 species distributed in Central and Southeastern Europe, Eastern Mediterranean Basin, Anatolia, Caucasus, Middle Asia, and Iran.***Mycterodus anaticeps* Puton***Mycterodus anaticeps* Puton, 1895: 89.**Distribution:** Syria.**Identification:** Puton 1895, Gnezdilov 2008.***Mycterodus arpadi* Dlabola***Mycterodus arpadi* Dlabola, 1977: 282.**Distribution:** Turkey.**Identification:** Dlabola 1977.***Mycterodus aspernatus* Gnezdilov***Mycterodus aspernatus* Gnezdilov, 2001a: 359.**Distribution:** Georgia (Abchazia), Russia (Krasnodar Territory).**Identification:** Gnezdilov 2001a.**Photos (Pl. 38, fig. a, Pl. 39, fig. a, Pl. 40, fig. a):** Russia, Krasnodar Territory (ZIN): ♂ (paratype), frontal, dorsal and lateral views.***Mycterodus astragalicus* Dlabola***Mycterodus astragalicus* Dlabola, 1974a: 42.**Distribution:** Iran.**Identification:** Dlabola 1974a.***Mycterodus balikesiricus* Dlabola***Mycterodus balikesiricus* Dlabola, 1979b: 245.

Distribution: Turkey.

Identification: Dlabola 1979b.

***Mycterodus carpathicus* Logvinenko**

Mycterodus carpathicus Logvinenko, 1974: 845.

Distribution: Romania, Ukraine.

Identification: Logvinenko 1974, Holzinger, Kammerlander & Nickel 2003.

Biology: Logvinenko 1975a.

Note: Holzinger, Kammerlander & Nickel 2003 mistakenly placed the species in synonymy under *Mycterodus confusus* Stål, 1861.

***Mycterodus chorassanicus* Logvinenko**

Mycterodus chorassanicus Logvinenko, 1974: 847.

Distribution: Turkmenistan.

Identification: Logvinenko 1974.

***Mycterodus confusus* Stål**

Mycterodus confusus Stål, 1861: 211.

Distribution: Turkey.

Identification: Stål 1861.

***Mycterodus cuniceps* Melichar**

Mycterodus cuniceps Melichar, 1906: 108.

Mycterodus longivertex Gruev, 1970: 1, syn. fide Gruev 1973: 72.

Distribution: Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Hungary, Romania, Serbia, Slovakia.

Identification: Gruev 1970, Holzinger, Kammerlander & Nickel 2003.

Biology: Holzinger, Kammerlander & Nickel 2003.

Photos (Pl. 38, fig. b, Pl. 39, fig. e, Pl. 40, fig. f): Slovakia, Kováčov (NMPC): ♀, dorsal and lateral views; Bulgaria (ZIN): ♂, frontal view.

***Mycterodus demavendinus* Dlabola**

Mycterodus demavendinus Dlabola, 1981a: 174.

Distribution: Iran.

Identification: Dlabola 1981a.

***Mycterodus denticulatus* Lindberg**

Mycterodus denticulatus Lindberg, 1948: 113.

Distribution: Cyprus.

Identification: Lindberg 1948.

***Mycterodus drosopoulosi* Dlabola**

Mycterodus drosopoulosi Dlabola, 1982: 158.

Distribution: Greece, Turkey.

Identification: Dlabola 1982, comments by Gnezdilov 2008.

***Mycterodus efesicus* Dlabola**

Mycterodus efesicus Dlabola, 1971b: 118.

Distribution: Greece (Samos I.), Turkey.

Identification: Dlabola 1971b.

Photos (Pl. 38, fig. c, Pl. 39, fig. f, Pl. 40, fig. g): Greece, Samos I. (ZMAN): ♂, frontal, dorsal and lateral views.

***Mycterodus etruscus* Dlabola**

Mycterodus etruscus Dlabola, 1980b: 61.

Distribution: Italy.

Identification: Dlabola 1980b.

***Mycterodus fagetophilus* Dlabola**

Mycterodus fagetophilus Dlabola, 1980b: 62.

Distribution: Iran.

Identification: Dlabola 1980b.

***Mycterodus hamatus* Dlabola**

Mycterodus hamatus Dlabola, 1971b: 120.

Distribution: Turkey.

Identification: Dlabola 1971b.

***Mycterodus guilanicus* Dlabola**

Mycterodus guilanicus Dlabola, 1981a: 176.

Distribution: Iran.

Identification: Dlabola 1981a.

***Mycterodus hezarmeshedi* Dlabola**

Mycterodus hezarmeshedi Dlabola, 1980b: 66.

Distribution: Iran.

Identification: Dlabola 1980b.

***Mycterodus horvathi* Dlabola**

Mycterodus horvathi Dlabola, 1977: 283.

Distribution: Turkey.

Identification: Dlabola 1977.

***Mycterodus hyrcanus* Logvinenko**

Mycterodus hyrcanus Logvinenko, 1974: 843.

Distribution: Azerbaijan (Talysh).

Identification: Logvinenko 1974.

***Mycterodus immaculatus* (Fabricius)**

Cercopis immaculata Fabricius, 1794: 54.

Issus nasutus Herrich-Schäffer, 1834: 144 auct. fide Holzinger, Kammerlander & Nickel 2003: 459.

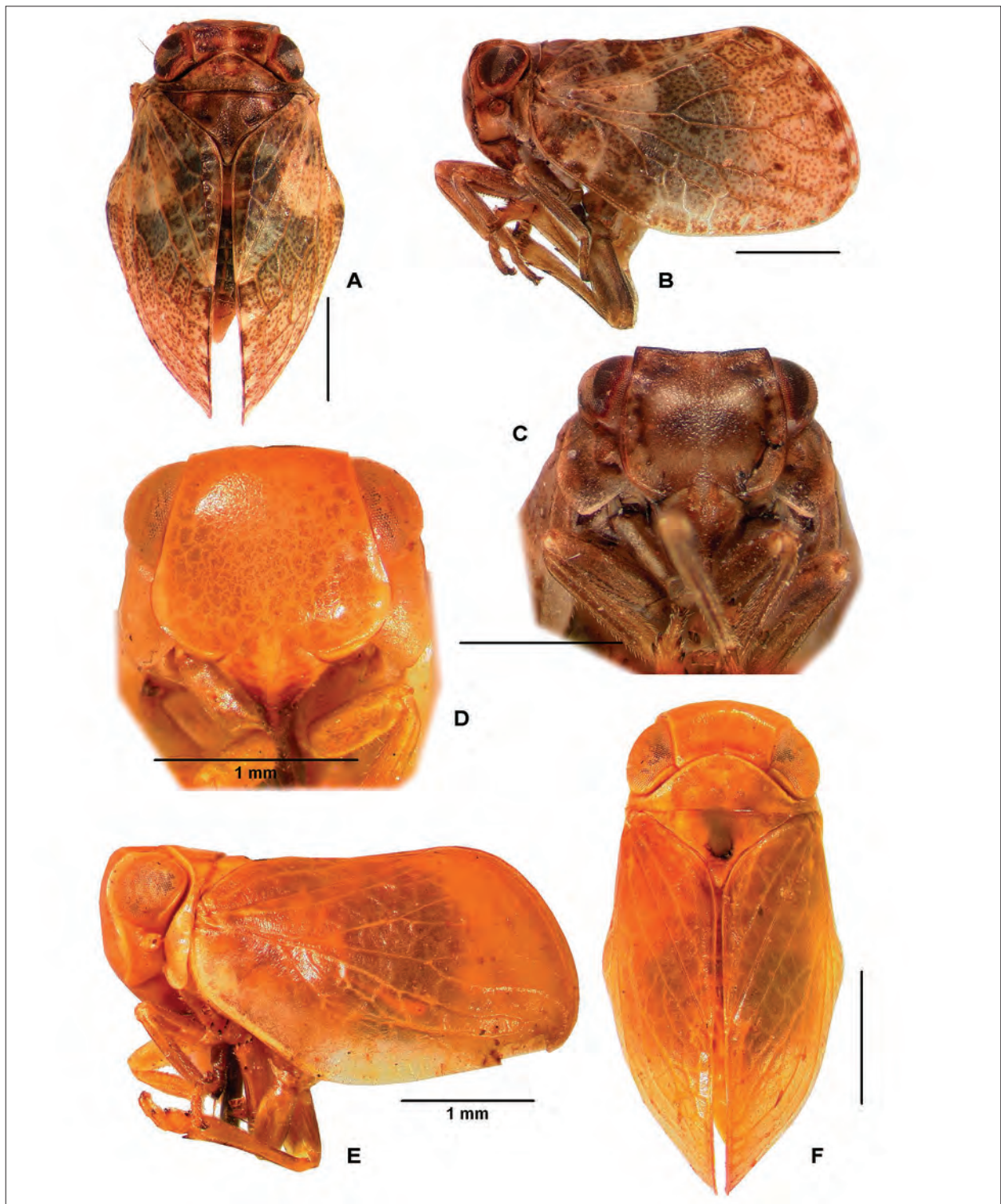


Plate 36. a, *Lethierium cedricolum* (Dlabola), male (paratype), dorsal view; b, same, lateral view; c, same, frontal view; d, *Lethierium reiberi* (Lethierry), male, frontal view; e, same, lateral view; f, same, dorsal view.

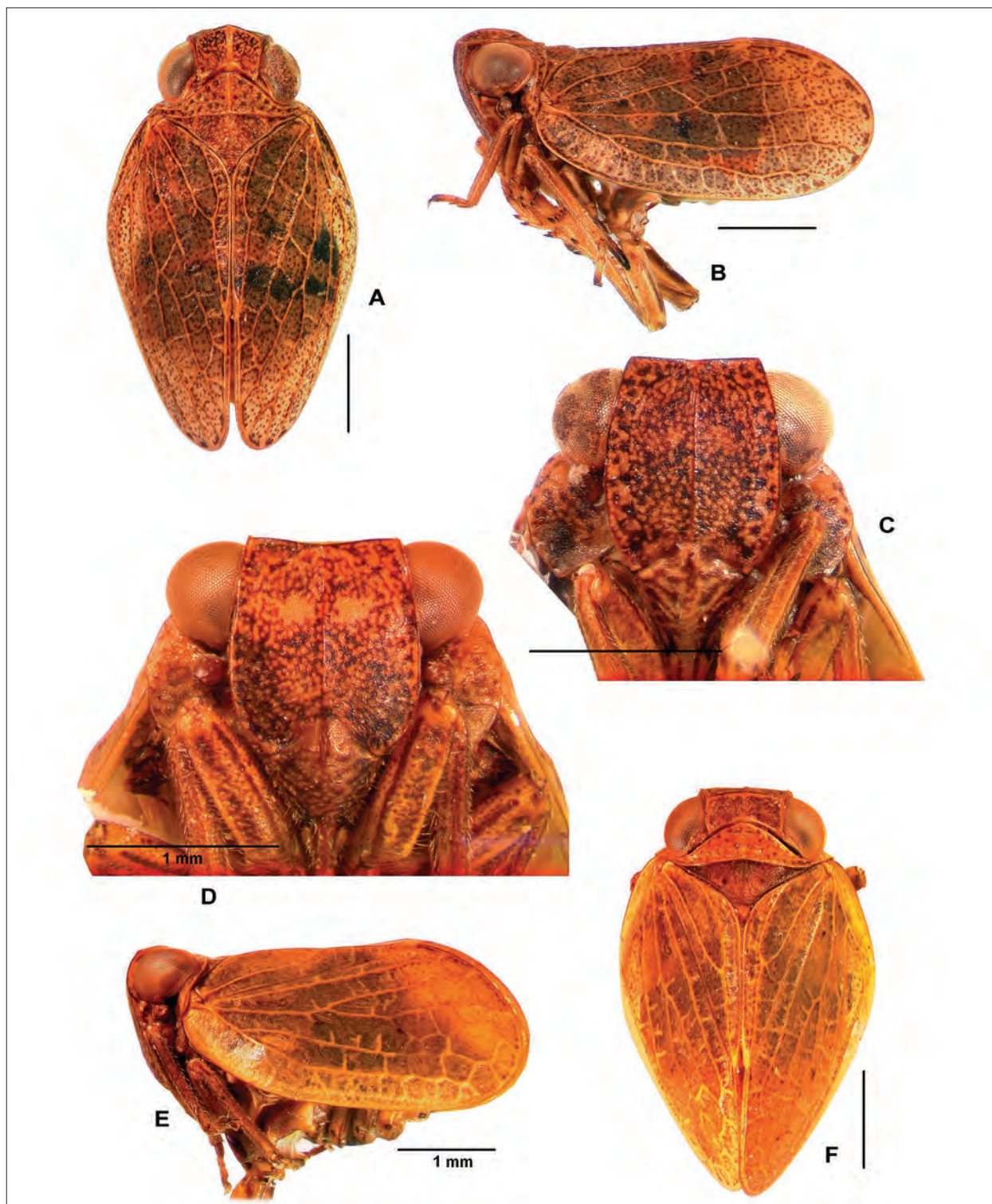
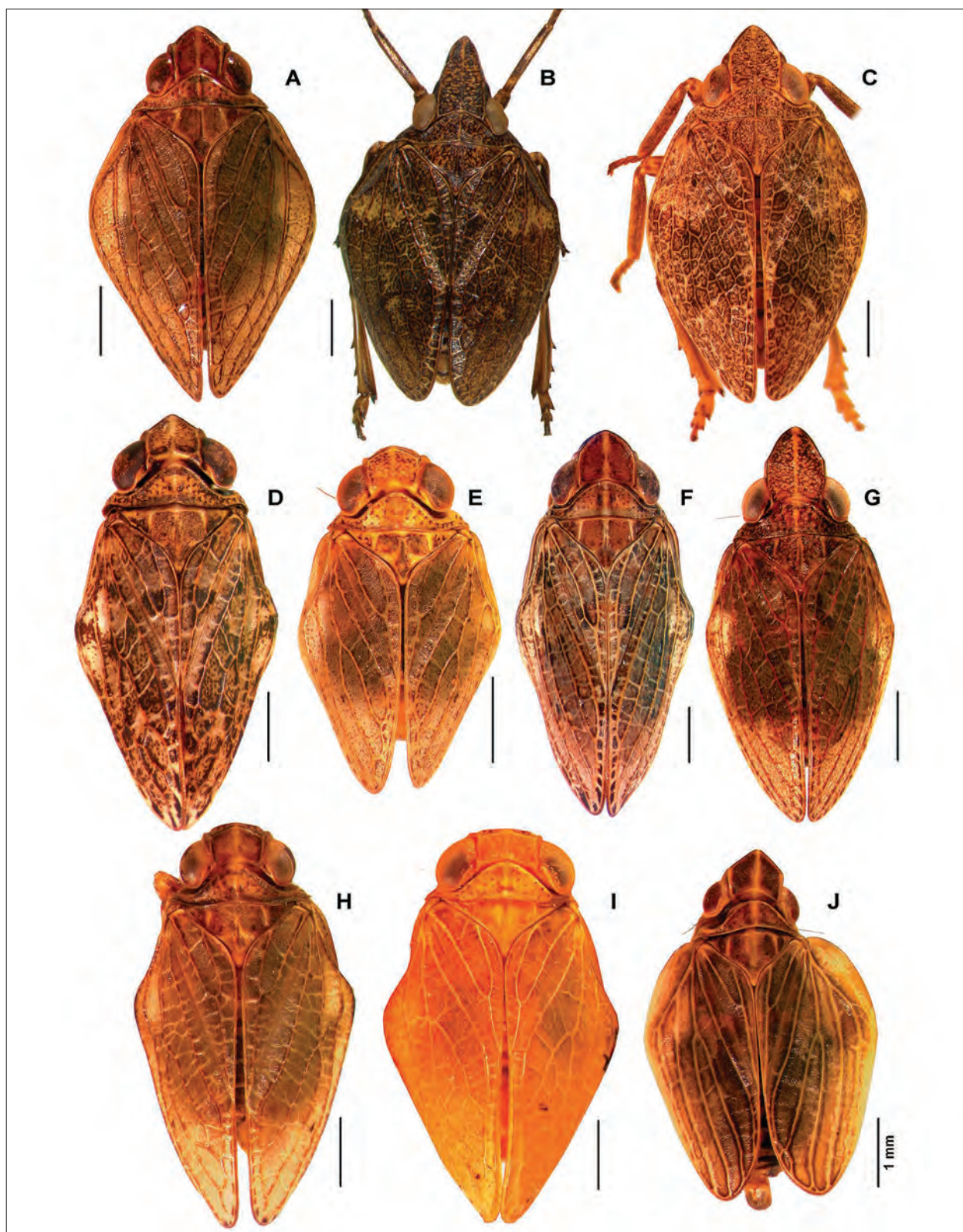


Plate 37. a, *Libanissum hermonicus* Dlabola, female (paratype), dorsal view; b, same, lateral view; c, same, frontal view; d, *Libanissum talhouki* (Dlabola), male, frontal view; e, same, lateral view; f, same, dorsal view.



Distribution: Italy.

Identification: Gruev 1970, Holzinger, Kammerlander & Nickel 2003.

Note: Originally described from Italy (Fabricius 1794). Other records listed by Metcalf (1958) and recent authors are in need of revision.

***Mycterodus inassuetus* Dlabola**

Mycterodus inassuetus Dlabola, 1981a: 176.

Distribution: Iran.

Identification: Dlabola 1981a.

***Mycterodus intricatus* Stål**

Mycterodus intricatus Stål, 1861: 211.

Distribution: Ukraine including Crimea.

Identification: Logvinenko 1974.

Biology: Logvinenko 1975a.

***Mycterodus izmiticus* Dlabola**

Mycterodus izmiticus Dlabola, 1979b: 244.

Distribution: Turkey.

Identification: Dlabola 1979b.

***Mycterodus kandavanicus* Dlabola**

Mycterodus kandavanicus Dlabola, 1980b: 63.

Distribution: Iran.

Identification: Dlabola 1980b.

***Mycterodus krameri* Dlabola**

Mycterodus krameri Dlabola, 1974c: 297.

Distribution: Iran.

Identification: Dlabola 1974c.

***Mycterodus lapaceki* Dlabola**

Mycterodus lapaceki Dlabola, 1985: 222.

Distribution: Greece (Crete I., Kos I.).

Identification: Dlabola 1985.

***Mycterodus lodosicus* Dlabola**

Mycterodus lodosicus Dlabola, 1980a: 188.

Distribution: Turkey.

Identification: Dlabola 1980a.

***Mycterodus orthocephalus* Ferrari**

Mycterodus orthocephalus Ferrari, 1885: 272.

Distribution: Italy, Switzerland.

Identification: Dlabola 1980b.

***Mycterodus osellai* Dlabola**

Mycterodus osellai Dlabola, 1977: 281.

Distribution: Turkey.

Identification: Dlabola 1977.

***Mycterodus osmanicus* Dlabola**

Mycterodus osmanicus Dlabola, 1971b: 118.

Distribution: Turkey.

Identification: Dlabola 1971b.

***Mycterodus peterseni* Dlabola**

Mycterodus peterseni Dlabola, 1980b: 68.

Distribution: Iran.

Identification: Dlabola 1980b.

***Mycterodus rhynchophysus* Logvinenko**

Mycterodus rhynchophysus Logvinenko, 1967: 775.

Distribution: Moldova, Ukraine.

Identification: Logvinenko 1974.

***Mycterodus rostratulus* Emeljanov**

Mycterodus rostratulus Emeljanov, 1964a: 355.

Distribution: Russia (Krasnodar Territory), ?Turkey (Demir 2007).

Identification: Logvinenko 1974.

***Mycterodus sarmaticus* Logvinenko**

Mycterodus sarmaticus Logvinenko, 1967: 775.

Distribution: Russia (Krasnodar Territory).

Identification: Gnezdilov 2001a.

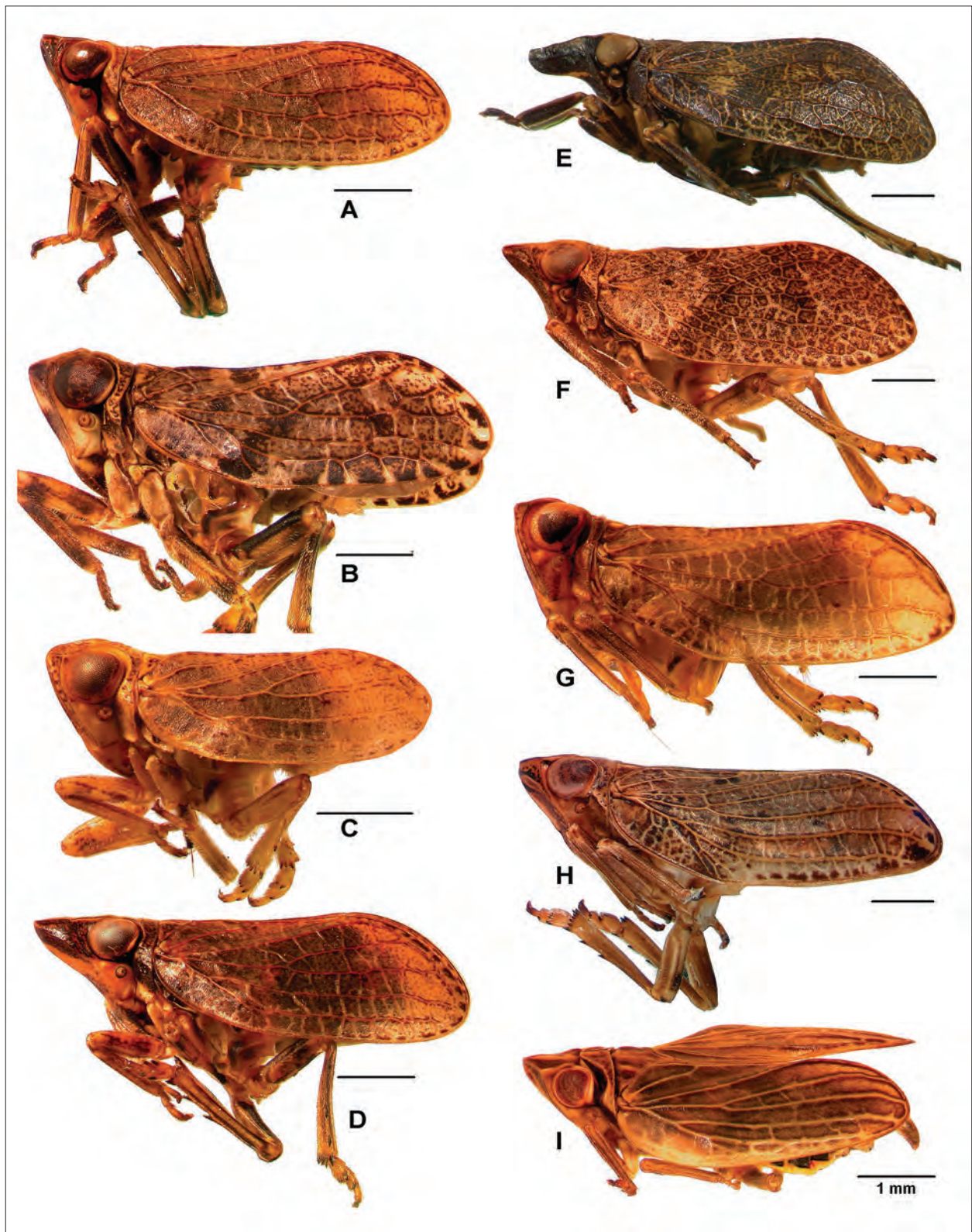
***Mycterodus serbicus* Dlabola**

Mycterodus serbicus Dlabola, 1980b: 59.

Distribution: Serbia.

Identification: Dlabola 1980b.

Plate 38. a, *Mycterodus (Mycterodus) aspermatius* Gnezdilov, male (paratype), dorsal view; b, *Mycterodus (Mycterodus) cuniceps* Melichar, female, dorsal view; c, *Mycterodus (Mycterodus) efesicus* Dlabola, male, dorsal view; d, *Mycterodus (Aegaeum) phoenicicus* Gnezdilov, female (paratype), dorsal view; e, *Mycterodus (Aconosimus) goricus* (Dlabola), male, dorsal view; f, *Mycterodus (Semirodus) pallens* Stål, female, dorsal view; g, *Mycterodus (Aconosimus) marki* Gnezdilov, female (paratype), dorsal view; h, *Mycterodus (Comoporodus) ovifrons* (Puton), female, dorsal view; i, *Mycterodus (Aegaeum) lesbicus* (Dlabola), male (holotype), dorsal view; j, *Mycterodus (Montissus) batathen* Gnezdilov, female (paratype), dorsal view.



Mycterodus sexpunctatus* DlabolaMycterodus sexpunctatus* Dlabola, 1980b: 67.**Distribution:** Iran.**Identification:** Dlabola 1980b.***Mycterodus shahrudicus* Dlabola***Mycterodus shahrudicus* Dlabola, 1980b: 65.**Distribution:** Iran.**Identification:** Dlabola 1980b.***Mycterodus talyshensis* Logvinenko***Mycterodus talyshensis* Logvinenko, 1974: 842.**Distribution:** Azerbaijan (Talysh).**Identification:** Logvinenko 1974.***Mycterodus wittmeri* Dlabola***Mycterodus wittmeri* Dlabola, 1974c: 296.**Distribution:** Greece (Crete I.).**Identification:** Dlabola 1974c.**Subgenus *Semirodus* Dlabola**Dlabola, 1987a: 64 (as genus). Type species: *Mycterodus pallens* Stål, 1861.**Composition and distribution:** 8 species distributed in Croatia, Greece, and Mediterranean Turkey.***Mycterodus colossicus* (Dlabola)***Semirodus colossicus* Dlabola, 1987a: 69.**Distribution:** Greece including the islands (Rhodes I., Karpathos I., Naxos I., Paros I.).**Identification:** Gnezdilov & Drosopoulos 2005.***Mycterodus croaticus* Gnezdilov & Wilson***Mycterodus croaticus* Gnezdilov & Wilson, 2005b: 78.**Distribution:** Croatia.**Identification:** Gnezdilov & Wilson 2005b.***Mycterodus hioles* Gnezdilov & Drosopoulos***Mycterodus hioles* Gnezdilov & Drosopoulos, 2005: 240.**Distribution:** Greece (Lesbos I., Hios I.).**Identification:** Gnezdilov & Drosopoulos 2005.***Mycterodus idomeneus* Dlabola***Mycterodus idomeneus* Dlabola, 1985: 220.**Distribution:** Greece (Crete I.).**Identification:** Gnezdilov & Drosopoulos 2005.***Mycterodus ikarus* Gnezdilov & Drosopoulos***Mycterodus ikarus* Gnezdilov & Drosopoulos, 2005: 239.**Distribution:** Greece (Ikaria I.).**Identification:** Gnezdilov & Drosopoulos 2005.***Mycterodus ionus* Gnezdilov & Drosopoulos***Mycterodus ionus* Gnezdilov & Drosopoulos, 2005: 239.**Distribution:** Greece (Samos I.), Turkey (Izmir).**Identification:** Gnezdilov & Drosopoulos 2005.***Mycterodus johannes* Gnezdilov & Drosopoulos***Mycterodus johannes* Gnezdilov & Drosopoulos, 2005: 238.**Distribution:** Greece (Skiathos I., Poros I.), Turkey (Gökçeada I.).**Identification:** Gnezdilov & Drosopoulos 2005.***Mycterodus pallens* Stål***Mycterodus pallens* Stål, 1861: 210.**Distribution:** Greece including the islands (Poros I., Ionian Is.).**Identification:** Gnezdilov & Drosopoulos 2005.**Photos (Pl. 38, fig. f, Pl. 39, fig. h, Pl. 40, fig. b):** Greece, Peloponnesus (NMWC): ♀, frontal, dorsal and lateral views.**Subgenus *Aconosimus* Dlabola**Dlabola, 1987a: 63 (as genus). Type species: *Conosimus goricus* Dlabola, 1958.**Composition and distribution:** 15 species distributed in Caucasus, Turkey, Iran and Iraq.

Plate 39. a, *Mycterodus* (*Mycterodus*) *aspermatus* Gnezdilov, male (paratype), lateral view; b, *Mycterodus* (*Aegaeum*) *phoenicicus* Gnezdilov, female (paratype), lateral view; c, *Mycterodus* (*Aconosimus*) *goricus* (Dlabola), male, lateral view; d, *Mycterodus* (*Aconosimus*) *marki* Gnezdilov, female (paratype), lateral view; e, *Mycterodus* (*Mycterodus*) *cuniceps* Melichar, female, lateral view; f, *Mycterodus* (*Mycterodus*) *efesicus* Dlabola, male, lateral view; g, *Mycterodus* (*Comoporodus*) *ovifrons* (Puton), female, lateral view; h, *Mycterodus* (*Semirodus*) *pallens* (Stål), female, lateral view; i, *Mycterodus* (*Montissus*) *batathen* Gnezdilov, female (paratype), lateral view.

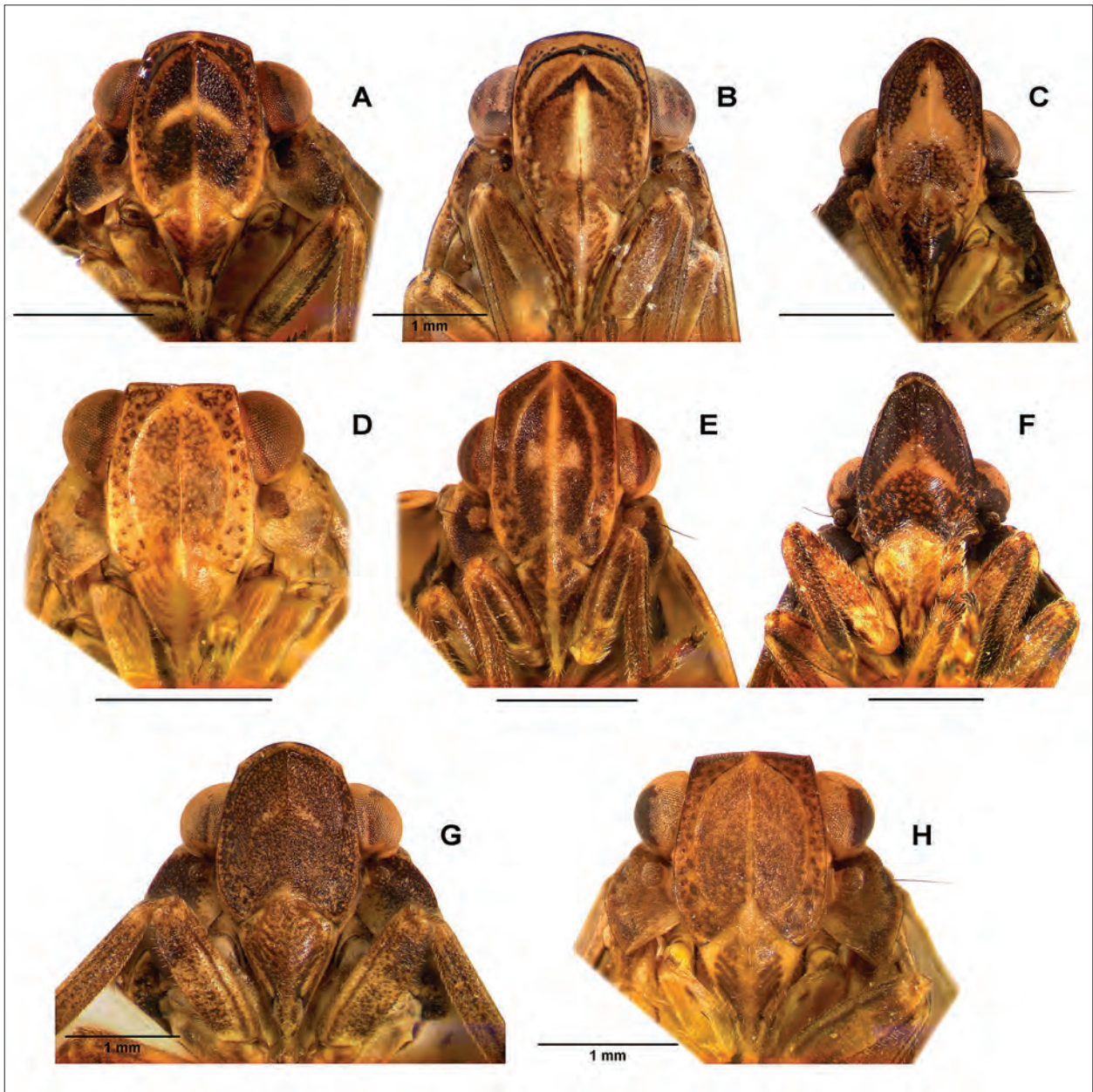


Plate 40. a, *Mycterodus (Mycterodus) aspernatus* Gnezdilov, male (paratype), frontal view; b, *Mycterodus (Semirodus) pallens* Stål, female, frontal view; c, *Mycterodus (Aconosimus) marki* Gnezdilov, female (paratype), frontal view; d, *Mycterodus (Aconosimus) goricus* (Dlabola), male, frontal view; e, *Mycterodus (Montissus) batathen* Gnezdilov, female (paratype), frontal view; f, *Mycterodus (Mycterodus) cuniceps* Melichar, female, frontal view; g, *Mycterodus (Mycterodus) efesicus* Dlabola, male, frontal view; h, *Mycterodus (Comoporodus) ovifrons* (Puton), female, frontal view.

Mycterodus alatus* LogvinenkoMycterodus alatus* Logvinenko, 1968: 25.**Distribution:** Georgia, Turkey.**Identification:** Logvinenko 1968, 1974.***Mycterodus anatolicus* Dlabola***Mycterodus anatolicus* Dlabola, 1981a: 173.**Distribution:** Turkey.**Identification:** Dlabola 1981a.***Mycterodus anatolienis* Dlabola***Mycterodus anatolienis* Dlabola, 1979b: 243.**Distribution:** Turkey.**Identification:** Dlabola 1979b.***Mycterodus armeniacus* Logvinenko***Mycterodus armeniacus* Logvinenko, 1974: 839.**Distribution:** Armenia.**Identification:** Logvinenko 1974.***Mycterodus azerbaijanicus* (Dlabola)***Aconosimus azerbaijanicus* Dlabola, 1983: 118.**Distribution:** Azerbaijan.**Identification:** Dlabola 1983.***Mycterodus elbursicus* Logvinenko***Mycterodus elbursicus* Logvinenko, 1974: 838.**Distribution:** Iran (Elburs).**Identification:** Logvinenko 1974.***Mycterodus goricus* (Dlabola)***Conosimus caucasicus* Melichar, 1914: 134.*Conosimus goricus* Dlabola, 1958: 326, replacement name for *Conosimus caucasicus* Melichar, 1914: 134, fide Gnezdilov & Malenovsky 2008: 24.**Distribution:** Armenia, Azerbaijan, Georgia, Turkey.**Identification:** Dlabola 1958, Logvinenko 1974.**Photos (Pl. 38, fig. e, Pl. 39, fig. c, Pl. 40, fig. d):** Azerbaijan, Nakhchivan Republic (ZIN): ♂, frontal, dorsal and lateral views.***Mycterodus hakkaricus* Dlabola***Mycterodus hakkaricus* Dlabola, 1980a: 189.**Distribution:** Iraq, Turkey.**Identification:** Dlabola 1980a.***Mycterodus kobachidzei* (Dlabola)***Conosimus kobachidzei* Dlabola, 1958: 325.**Distribution:** Georgia, Russia (Dagestan Republic, Chechen Republic).**Identification:** Dlabola 1958, Logvinenko 1974.**Biology:** Logvinenko 1975a.***Mycterodus lanceatus* (Dlabola)***Aconosimus lanceatus* Dlabola, 1997: 307.**Distribution:** Iran.**Identification:** Dlabola 1997.***Mycterodus marki* Gnezdilov***Mycterodus marki* Gnezdilov, 2008: 579.**Distribution:** Turkey.**Identification:** Gnezdilov 2008.**Photos (Pl. 38, fig. g, Pl. 39, fig. d, Pl. 40, fig. c):** Turkey (ZIN): ♀ (paratype), frontal, dorsal and lateral views.***Mycterodus morulus* Logvinenko***Mycterodus morulus* Logvinenko, 1976: 608.**Distribution:** Russia (Dagestan Republic).**Identification:** Logvinenko 1976.***Mycterodus nuchensis* (Logvinenko)***Conosimus nuchensis* Logvinenko, 1968: 26.**Distribution:** Azerbaijan.**Identification:** Logvinenko 1968, 1974.***Mycterodus sidorskii* Logvinenko***Mycterodus sidorskii* Logvinenko, 1974: 841.**Distribution:** Russia (Dagestan Republic).**Identification:** Logvinenko 1974.***Mycterodus ulukislanus* Dlabola***Mycterodus ulukislanus* Dlabola, 1985: 219.**Distribution:** Turkey.**Identification:** Dlabola 1985.**Subgenus *Compodorod* Kocak**Kocak, 1982: 142 (as subgenus). Type species: *Mycterodus batus* Dlabola, 1958.**Composition and distribution:** 6 species distributed in Caucasus and Turkey.***Mycterodus batus* Dlabola***Mycterodus batus* Dlabola, 1958: 322.**Distribution:** Georgia.**Identification:** Dlabola 1958, Logvinenko 1974.

Mycterodus caucasicus* (Melichar)Issus caucasicus* Melichar, 1906: 186.**Distribution:** Georgia, Turkey.**Identification:** Logvinenko 1974.***Mycterodus lobatus* Logvinenko***Mycterodus lobatus* Logvinenko, 1968: 22.**Distribution:** Georgia.**Identification:** Logvinenko 1968, 1974.***Mycterodus mutuus* Logvinenko***Mycterodus mutuus* Logvinenko, 1968: 22.**Distribution:** Russia (Krasnodar Territory),
?Turkey (Kartal & Dursun 2009).**Identification:** Logvinenko 1968, 1974.***Mycterodus ovifrons* (Puton)***Issus ovifrons* Puton, 1890: 232.**Distribution:** Russia (Dagestan Republic, Krasnodar Territory), Turkey.**Identification:** Logvinenko 1974.**Photos (Pl. 38, fig. h, Pl. 39, fig. g, Pl. 40, fig. h):** Russia, Krasnodar Territory (ZIN): ♀, frontal, dorsal and lateral views.***Mycterodus pozanticus* Kartal***Mycterodus pozanticus* Kartal, 1983: 236.**Distribution:** Turkey.**Identification:** Kartal 1983.**Subgenus *Aegaeum* Gnezdilov**Gnezdilov, 2003a: 52 (as subgenus). Type species:
Hysteropterum lesbicum Dlabola, 1981.**Composition and distribution:** 8 species distributed in the Eastern Mediterranean Basin.***Mycterodus bicornutus* Dlabola***Mycterodus bicornutus* Dlabola, 1986: 182.*Mycterodus syriacus* Gnezdilov, 2008: 577, syn. fide Gnezdilov 2010: 418.**Distribution:** Turkey, Syria.**Identification:** Gnezdilov 2008.***Mycterodus capitatus* Dlabola***Mycterodus capitatus* Dlabola, 1982: 161.**Distribution:** Turkey.**Identification:** Dlabola 1982, comments by Gnezdilov 2008.***Mycterodus lesbicus* (Dlabola)***Hysteropterum lesbicum* Dlabola, 1981b: 6.**Distribution:** Greece (Lesbos I.).**Identification:** Dlabola 1981b.**Photos (Pl. 38, fig. i):** Greece, Lesbos I. (ZMAN): ♂ (holotype), dorsal view.***Mycterodus muticus* Dlabola***Mycterodus muticus* Dlabola, 1986: 183.**Distribution:** Turkey.**Identification:** Dlabola 1986.***Mycterodus phoenicicus* Gnezdilov***Mycterodus phoenicicus* Gnezdilov, 2008: 576.**Distribution:** Lebanon.**Identification:** Gnezdilov 2008.**Photos (Pl. 38, fig. d, Pl. 39, fig. b):** Lebanon (ZIN): ♀ (paratype), dorsal and lateral views.***Mycterodus spinicordatus* Dlabola***Mycterodus spinicordatus* Dlabola, 1983: 116.**Distribution:** Turkey.**Identification:** Dlabola 1983.***Mycterodus tekneticus* Dlabola***Mycterodus tekneticus* Dlabola, 1982: 160.**Distribution:** Turkey.**Identification:** Dlabola 1982.***Mycterodus torosicus* Dlabola***Mycterodus torosicus* Dlabola, 1980a: 190.**Distribution:** Turkey.**Identification:** Dlabola 1980a.**Subgenus *Montissus* Gnezdilov**Gnezdilov, 2003a: 53 (as subgenus). Type species:
Mycterodus batathen Gnezdilov, 2003.**Composition and distribution:** 2 species distributed in Turkey and Northwestern Caucasus.***Mycterodus batathen* Gnezdilov***Mycterodus batathen* Gnezdilov, 2003a: 54.**Distribution:** Russia (Krasnodar Territory).**Identification:** Gnezdilov 2003a.**Photos (Pl. 38, fig. j, Pl. 39, fig. i, Pl. 40, fig. e):** Russia, Krasnodar Territory (ZIN): ♀ (paratype), frontal, dorsal and lateral views.

***Mycterodus bernhaueri* (Dlabola)**

Aconosimus bernhaueri Dlabola, 1997: 306.

Distribution: Turkey.

Identification: Dlabola 1997.

Genus *Mulsantereum* Gnezdilov

Gnezdilov, 2002c: 618. Type species: *Hysteropterum maculifrons* Mulsant & Rey, 1855.

Composition and distribution: 4 species distributed in the European Mediterranean Basin. The genus is in need of revision.

***Mulsantereum abruzicum* (Dlabola)**

Falcidius abruzicus Dlabola, 1983: 123.

Distribution: Italy.

Identification: Dlabola 1983.

***Mulsantereum maculifrons* (Mulsant & Rey)**

Hysteropterum maculifrons Mulsant & Rey, 1855a: 101.

Distribution: France, ?Portugal (Puton, 1886b), Spain.

Identification: Gnezdilov 2003a.

Photos (Pl. 35, figs d–f): France, Pyrénées-Orientales (NMWC): ♀, frontal, dorsal and lateral views.

***Mulsantereum novaki* (Wagner)**

Hysteropterum novaki Wagner, 1962: 48 (in Novak & Wagner 1962).

Distribution: Croatia.

Identification: Novak & Wagner 1962.

Photos (Pl. 35, fig. g): Croatia, Sušak (ZMH): ♀ (paratype), frontal view.

***Mulsantereum oculatum* (Linnavuori)**

Hysteropterum oculatum Linnavuori, 1965: 64.

Distribution: Italy.

Identification: Dlabola 1983.

Genus *Numidius* Gnezdilov, Guglielmino & D'Urso

Gnezdilov, Guglielmino & D'Urso, 2003: 183. Type species: *Numidius litus* Gnezdilov, Guglielmino & D'Urso, 2003.

Composition and distribution: Monotypical genus known from Tunisia and Pantelleria I. of Italy.

***Numidius litus* Gnezdilov, Guglielmino & D'Urso**

Numidius litus Gnezdilov, Guglielmino & D'Urso, 2003: 184.

Distribution: Italy (Pantelleria I.), Tunisia.

Identification: Gnezdilov, Guglielmino & D'Urso 2003.

Photos (Pl. 41, figs d–f): Italy, Pantelleria I. (ZIN): ♂ (paratype), frontal, dorsal and lateral views.

Genus *Palaeolithium* Gnezdilov

Gnezdilov, 2003a: 30. Type species: *Hysteropterum distinguendum* Kirschbaum, 1868.

Composition and distribution: Monotypical genus known from the Western and Central Mediterranean Basin.

***Palaeolithium distinguendum* (Kirschbaum)**

Hysteropterum distinguendum Kirschbaum, 1868: 54.

Hysteropterum straminum Bergevin, 1915: 74, syn. fide Gnezdilov 2003a: 31.

Distribution: Italy including Sardinia I. and Sicily I., Morocco, Portugal, Spain, Tunisia.

Identification: Dlabola 1984.

Photos (Pl. 41, figs a–c): Italy (NMWC): ♀, frontal, dorsal and lateral views.

Genus *Palmallorcus* Gnezdilov

Gnezdilov, 2003a: 41. Type species: *Hysteropterum balearicum* Dlabola, 1982.

Barbarissus Gnezdilov, 2003a: 43 (Type species: *Issus punctulatus* Rambur, 1840), syn. fide Gnezdilov 2005: 41.

Composition and distribution: 5 species distributed in Morocco, Pyrenean Peninsula, Balearic Islands, Italy, and Cyprus.

***Palmallorcus balearicus* (Dlabola)**

Hysteropterum balearicum Dlabola, 1982: 153.

Distribution: Cyprus, Spain including Balearic Islands (Majorca I.).

Identification: Dlabola 1982.

***Palmallorcus biemani* Gnezdilov**

Palmallorcus biemani Gnezdilov, 2005: 41.

Distribution: Spain.

Identification: Gnezdilov 2005.

Photos (Pl. 42, figs d, e): Spain (ZIN): ♂, dorsal and lateral views.

***Palmallorcus nevadensis* (Linnavuori)**

Hysteropterum nevadense Linnavuori, 1957: 95.

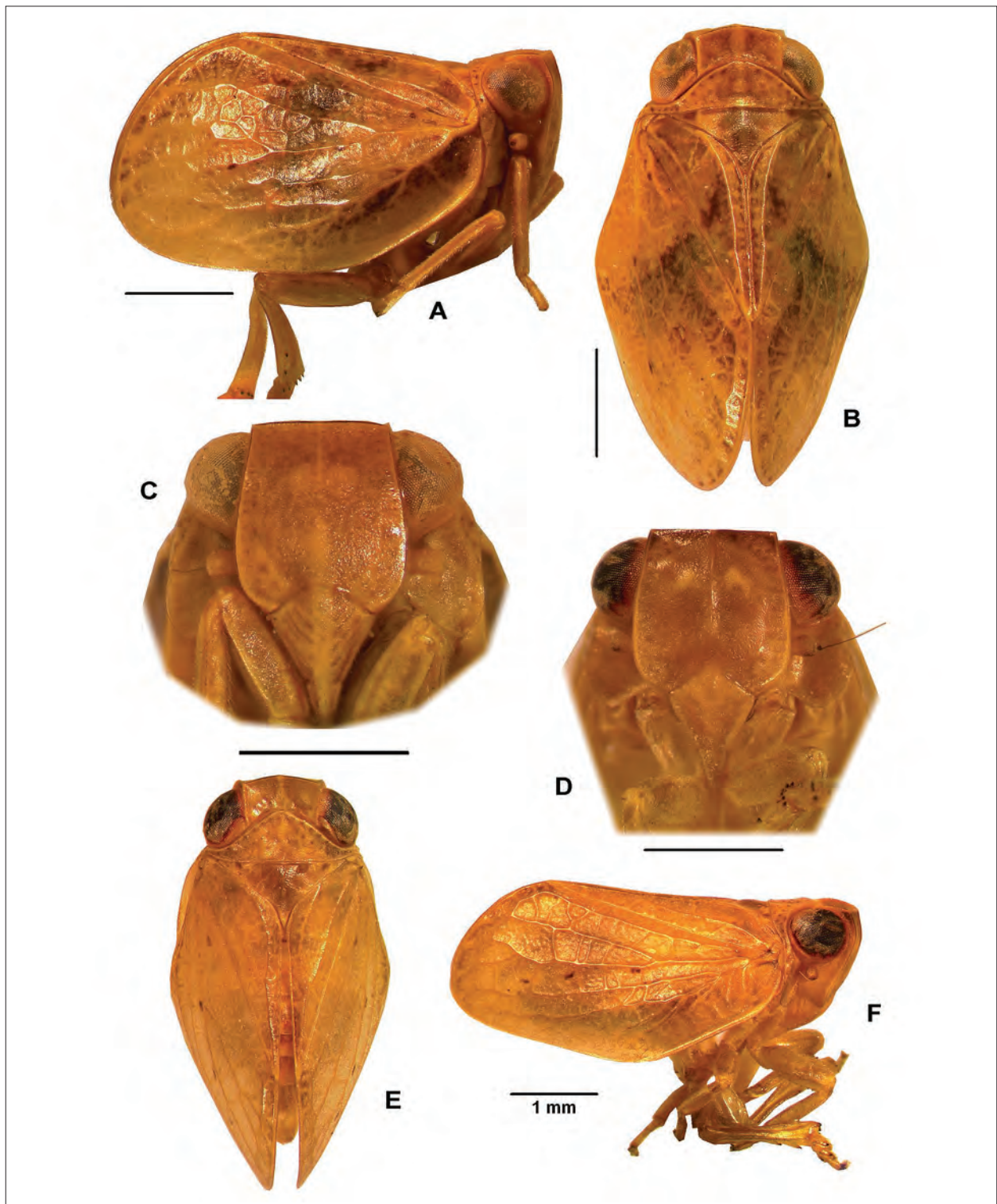


Plate 41. a, *Palaeolithium distinguendum* (Kirschbaum), female, lateral view; b, same, dorsal view; c, same, frontal view; d, *Numidius litus* Gnezdilov, Guglielmino & D'Urso, male (paratype), frontal view; e, same, dorsal view; f, same, lateral view.

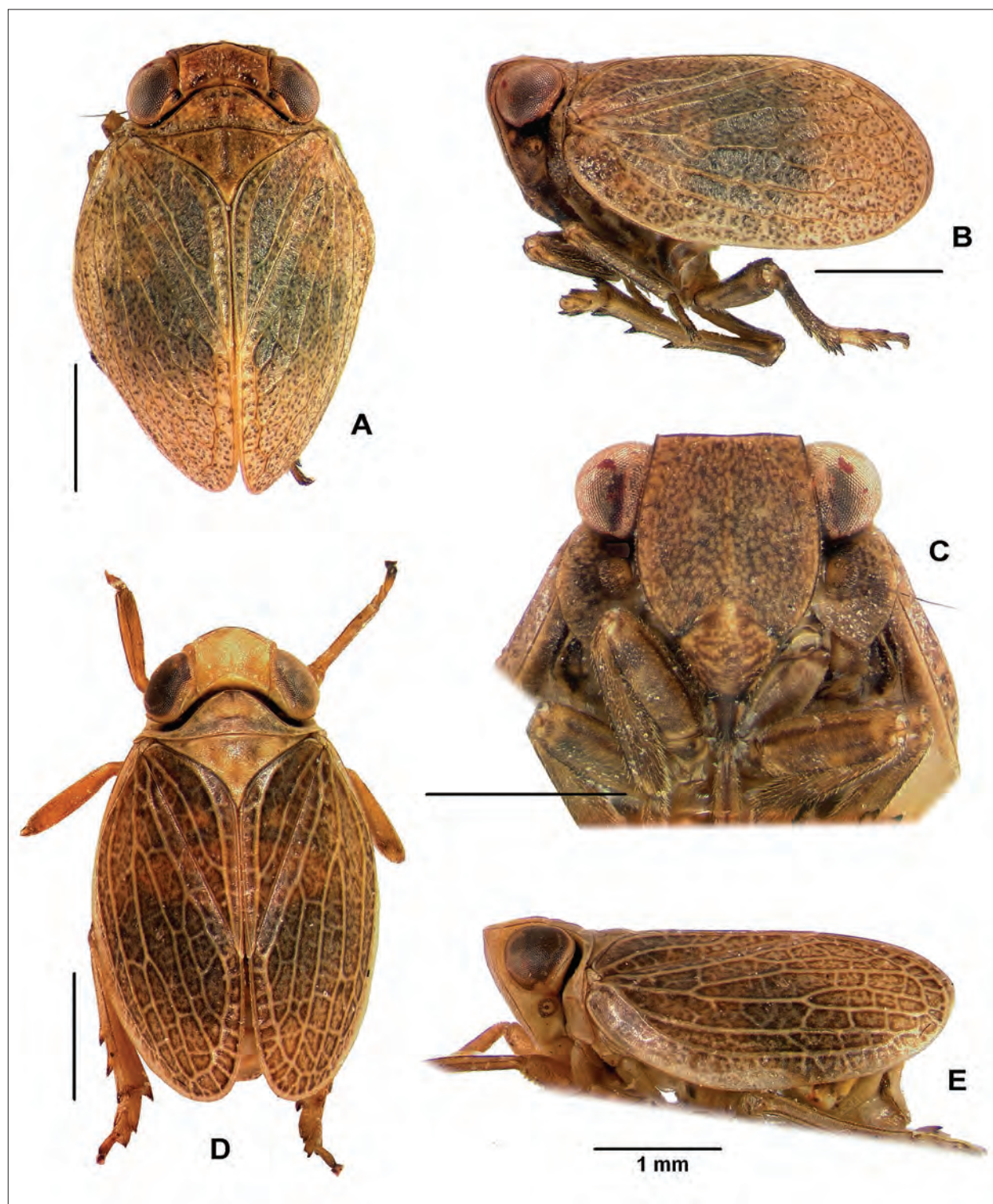


Plate 42. a, *Palmallorcus punctulatus* (Rambur), male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Palmallorcus biemani* Gnezdilov, male, dorsal view; e, same, lateral view.

Distribution: Spain.

Identification: Linnavuori 1957, Dlabola 1982.

***Palmallorcus phaeophleps* (Fieber)**

Hysteropterum phaeophleps Fieber, 1877: 6.

Distribution: Italy.

Identification: Gnezdilov, Soulier-Perkins & Bourgoin 2011.

***Palmallorcus punctulatus* (Rambur)**

Issus punctulatus Rambur, 1840: 212.

Distribution: Morocco, Portugal, Spain.

Identification: Webb 1979, Dlabola 1982.

Photos (Pl. 42, figs a–c): Portugal (ZIN): ♂, frontal, dorsal and lateral views.

Genus *Pamphylium* Gnezdilov & Wilson

Gnezdilov & Wilson, 2007a: 301. Type species: *Latematium cingulatum* Dlabola, 1983.

Composition and distribution: 2 species distributed in Turkey and Cyprus.

***Pamphylium cingulatum* (Dlabola)**

Latematium cingulatum Dlabola, 1983: 123.

Distribution: Turkey.

Identification: Dlabola 1983, Gnezdilov & Wilson 2007.

Photos (Pl. 43, figs a–c): Turkey (ZIN): ♂, frontal, dorsal and lateral views.

***Pamphylium cypriacum* (Dlabola)**

Latematium cypriacum Dlabola, 1982: 150.

Distribution: Cyprus.

Identification: Dlabola 1982.

Genus *Pentissus* Dlabola

Dlabola, 1980a: 207. Type species: *Pentissus bamicus* Dlabola, 1980.

Composition and distribution: Monotypical genus — endemic to Iran.

***Pentissus bamicus* Dlabola**

Pentissus bamicus Dlabola, 1980a: 207.

Distribution: Iran.

Identification: Dlabola 1980a.

Photos (Pl. 43, figs d–f): Iran (NMWC): ♂, frontal, dorsal and lateral views.

Genus *Phasmena* Melichar

Melichar, 1902: 92. Type species: *Phasmena telifera* Melichar, 1902.

Composition and distribution: 2 subgenera (*Phasmena* s.str. with 12 species and monotypical *Stygiata* Emeljanov 1972) distributed in Transcaucasia, Iran, Kazakhstan, Mongolia, and Turkmenistan. In Western Palaearctic only *Phasmena* s.str. with 8 species present.

***Phasmena adyoungi* Dlabola**

Phasmena adyoungi Dlabola, 1982: 131.

Distribution: Iran.

Identification: Dlabola 1982.

***Phasmena breviscula* Emeljanov**

Phasmena breviscula Emeljanov, 1978: 328.

Distribution: Turkmenistan.

Identification: Emeljanov 1978.

***Phasmena cardinalis* Emeljanov**

Phasmena cardinalis Emeljanov, 1978: 326.

Distribution: Turkmenistan.

Identification: Emeljanov 1978.

Photos (Pl. 44, figs d–g): Turkmenistan, Ipaykala (ZIN): ♂ (paratype), frontal, dorsal and lateral views.

***Phasmena nasuta* Melichar**

Phasmena nasuta Melichar, 1902: 93.

Distribution: Iran, Turkey.

Identification: Melichar 1902, 1906.

***Phasmena nigrodorsalis* Sidorski**

Phasmena nigrodorsalis Sidorski, 1938: 130.

Distribution: Azerbaijan (Nakhchivan Republic).

Identification: Sidorski 1938.

***Phasmena spiraeae* Mitjaev**

Phasmena spiraeae Mitjaev, 1967: 715.

Issus caraganae Dlabola, 1968: 366, syn. fide Emeljanov 1977: 122.

Distribution: Kazakhstan, Mongolia.

Identification: Mitjaev 1967.

Biology: Mitjaev 2002.

Photos (Pl. 44, figs a–c): Kazakhstan (ZIN): ♀, frontal, dorsal and lateral views.

Phasmena tardiviva* EmeljanovPhasmena tardiviva* Emeljanov, 1978: 331.**Distribution:** Kazakhstan.**Identification:** Emeljanov 1978.**Biology:** Mitjaev 2002.***Phasmena telifera* Melichar***Phasmena telifera* Melichar, 1902: 92.**Distribution:** Iran.**Identification:** Melichar 1902, 1906.**Genus *Pseudohemisphaerius* Melichar**Melichar, 1906: 99. Type species: *Hysteropterum piceum* Puton, 1884.**Composition and distribution:** Monotypical genus — endemic to Parnassus Mt. in Greece.***Pseudohemisphaerius piceus* (Puton)***Hysteropterum piceum* Puton, 1884: 88.**Distribution:** Greece.**Identification:** Gnezdilov 2003a.**Photos (Pl. 45, figs a–c):** Greece, Parnass (MNHN): ♀ (syntype), frontal, dorsal and lateral views.**Genus *Quadriva* Ghauri**Ghauri, 1965: 680. Type species: *Quadriva artemisiae* Ghauri, 1965.*Hysterothus* Dlabola, 1980a: 192 (Type species: *Hysterothus sabzevaranus* Dlabola, 1980), syn. fide Gnezdilov, Drosopoulos & Wilson 2004: 218.**Composition and distribution:** 12 species, mostly distributed in Iran (7 species), also in Tajikistan, Pakistan, and Kashmir.***Quadriva aghilica* (Dlabola)***Hysterothus aghilicus* Dlabola, 1982: 125.**Distribution:** Kashmir (Karakorum).**Identification:** Dlabola 1982.***Quadriva artemisiae* Ghauri***Quadriva artemisiae* Ghauri, 1965: 681.**Distribution:** Pakistan.**Identification:** Ghauri 1965.***Quadriva aurita* (Dlabola)***Hysterothus auritus* Dlabola, 1982: 162.**Distribution:** Iran.**Identification:** Dlabola 1982.***Quadriva allotria* (Lukjanova)***Mycterodus allotrius* Lukjanova, 1991: 147.**Distribution:** Tajikistan.**Identification:** Lukjanova 1991.**Photos (Pl. 45, figs d–f):** Tajikistan (ZIN): ♂, frontal, dorsal and lateral views.***Quadriva dehbakrina* (Dlabola)***Hysterothus dehbakrinus* Dlabola, 1980a: 196.**Distribution:** Iran.**Identification:** Dlabola 1980a.***Quadriva lassa* (Dlabola)***Hysteropterum lassum* Dlabola, 1981a: 178.**Distribution:** Iran.**Identification:** Dlabola 1981a.***Quadriva ochaninei* (Puton)***Conosimus ochaninei* Puton, 1890: 232.**Distribution:** Kyrgyzstan/Tajikistan.**Identification:** Puton 1890.***Quadriva proxima* (Dlabola)***Hysterothus proximus* Dlabola, 1980a: 198.**Distribution:** Iran.**Identification:** Dlabola 1980a.***Quadriva sabzevarana* (Dlabola)***Hysterothus sabzevaranus* Dlabola, 1980a: 193.**Distribution:** Iran.**Identification:** Dlabola 1980a.***Quadriva taftanica* (Dlabola)***Hysterothus taftanicus* Dlabola, 1980a: 197.**Distribution:** Iran.**Identification:** Dlabola 1980a.***Quadriva tangesarhena* (Dlabola)***Hysterothus tangesarhenus* Dlabola, 1980a: 193.**Distribution:** Iran.**Identification:** Dlabola 1980a.***Quadriva tunicata* (Logvinenko)***Mycterodus tunicatus* Logvinenko, 1974: 842.**Distribution:** Tajikistan.**Identification:** Logvinenko 1974.

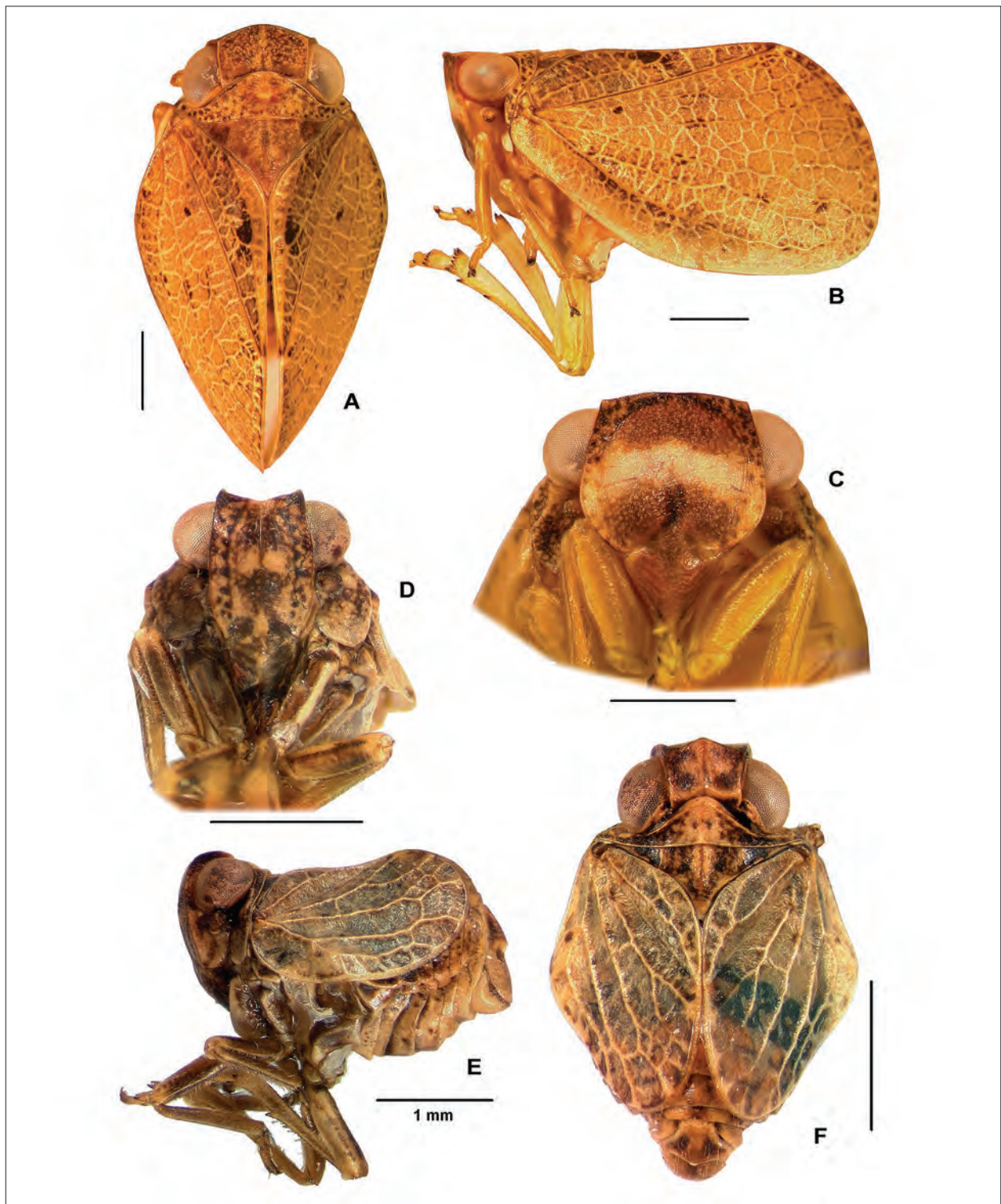


Plate 43. a, *Pamphylum cingulatum* (Dlabola), male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Pentissus bamicus* Dlabola, male, frontal view; e, same, lateral view; f, same, dorsal view.

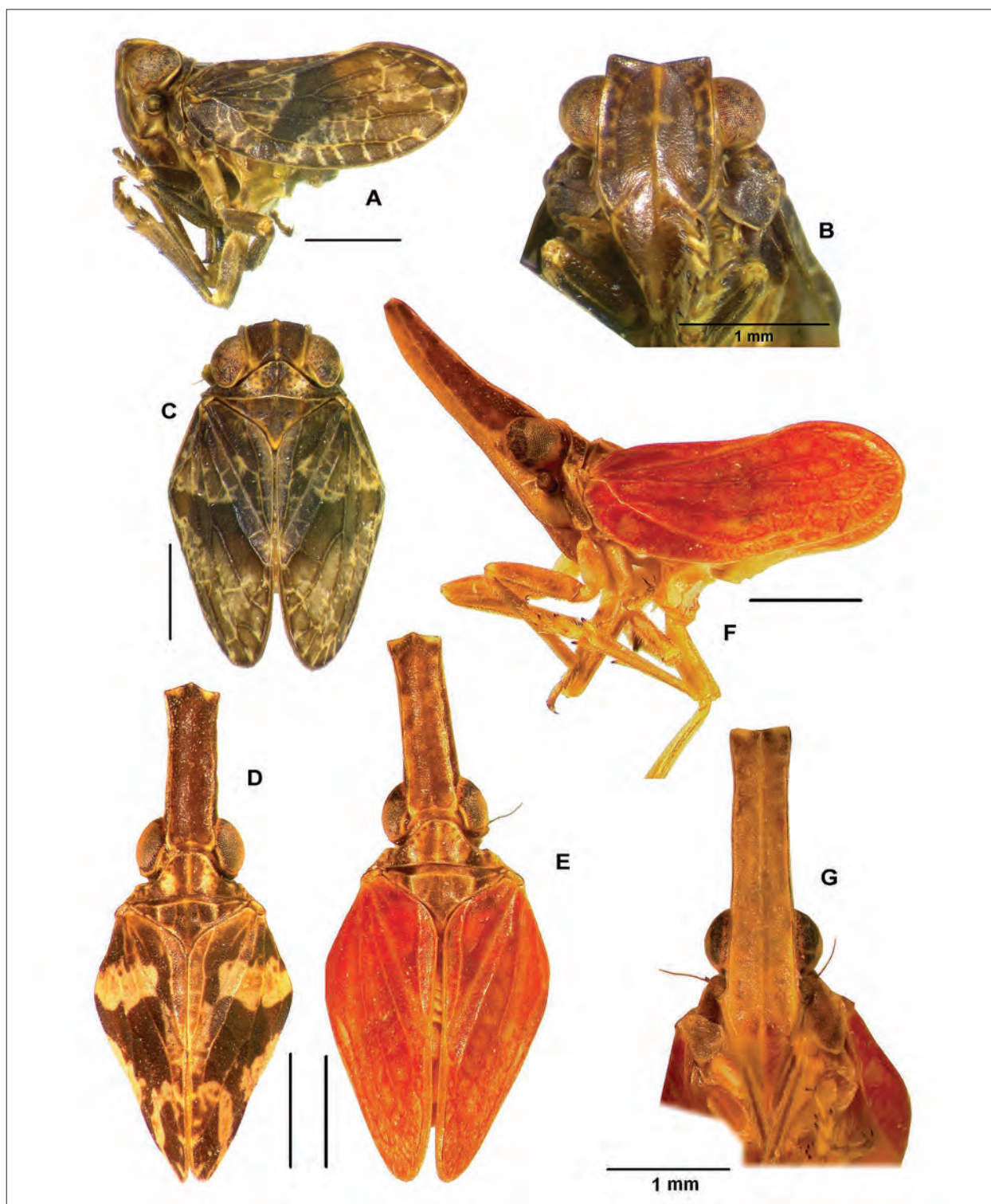


Plate 44. a, *Phasmena spiraeae* Mitjaev, female, lateral view; b, same, frontal view; c, same, dorsal view; d, e, *Phasmena cardinalis* Emeljanov, male (paratype), dorsal view; f, same, lateral view; g, same, frontal view.

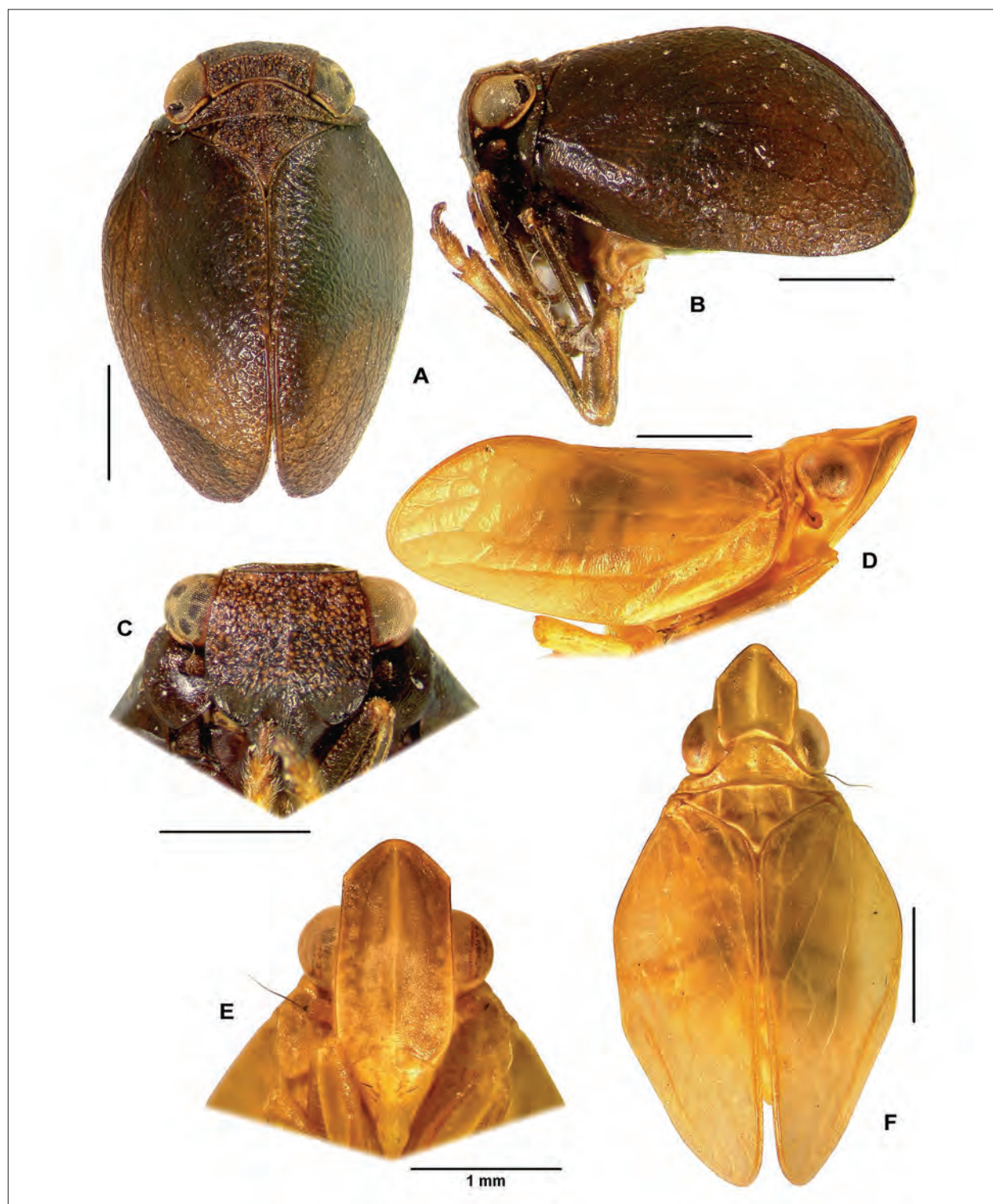


Plate 45. a, *Pseudohemisphaerius piceus* (Puton), female (syntype), dorsal view; b, same, lateral view; c, same, frontal view; d, *Quadriwa allotria* (Lukjanova), male, lateral view; e, same, frontal view; f, same, dorsal view.

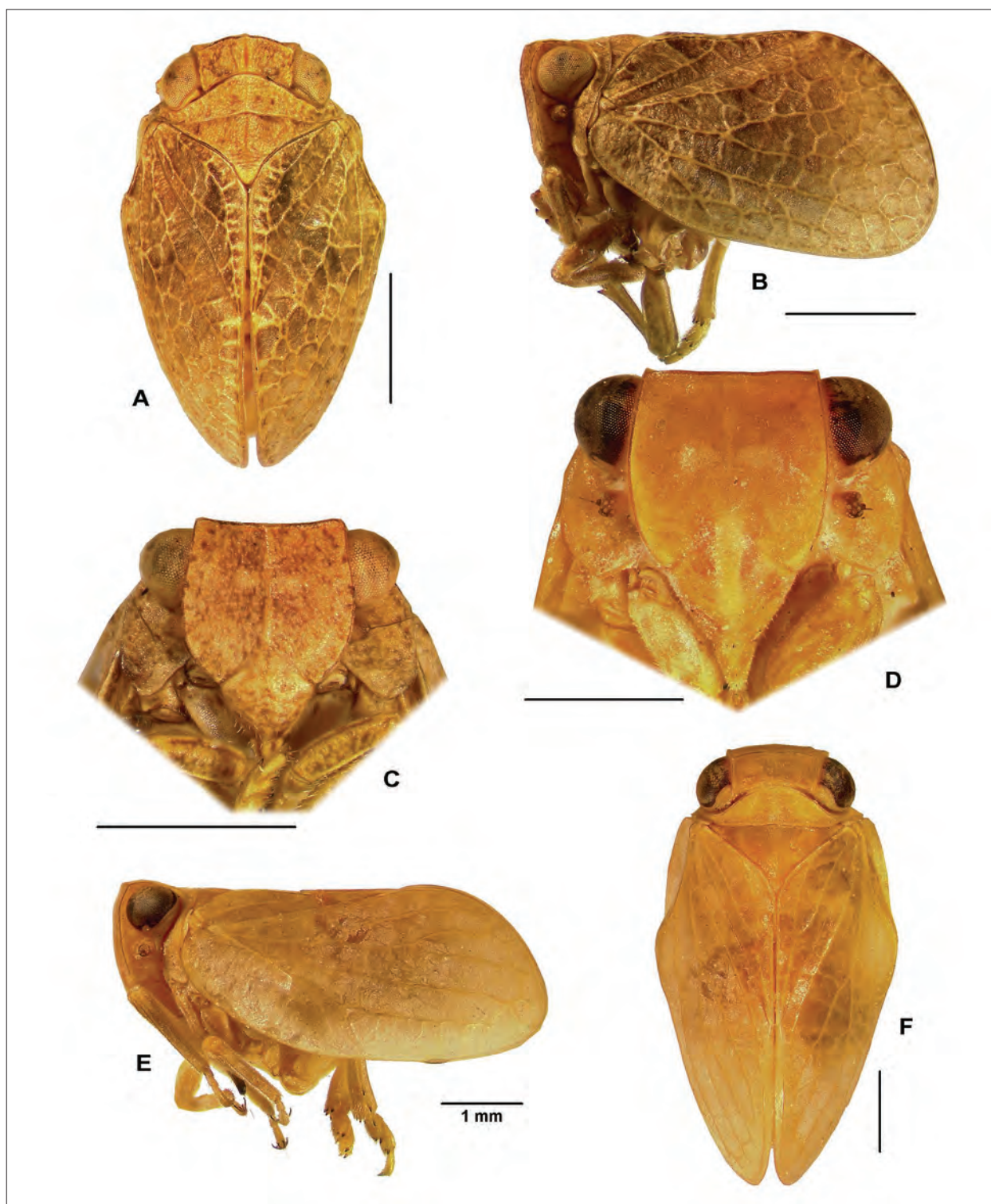


Plate 46. a, *Rhisssolepus ergenense* (Becker), male (syntype), dorsal view; b, same, lateral view; c, same, frontal view; d, *Scorlupaster asiaticum* (Lethierry), female, frontal view; e, same, lateral view; f, same, dorsal view.

Genus *Rhissolepus* Emeljanov

Emeljanov, 1971: 625. Type species: *Hysteropterum ergenense* Becker, 1865.

Composition and distribution: 4 species known from Kazakhstan, Southern Russia, Greece including islands, and Turkey.

***Rhissolepus aspinosus* Dlabola**

Rhissolepus aspinosus Dlabola, 1982: 144.

Distribution: Greece (Chios I., Lesbos I.), Turkey.

Identification: Dlabola 1982.

***Rhissolepus ergenensis* (Becker)**

Issus ergenensis Becker, 1865: 482.

Distribution: Russia (Astrakhan Province, Orenburg Province, Volgograd Province), Kazakhstan.

Identification: Emeljanov 1964a.

Biology: Emeljanov 1969, Mitjaev 2002.

Photos (Pl. 46, figs a–c): Russia, Sarepta (ZIN): ♀ (syntype), frontal, dorsal and lateral views.

***Rhissolepus insulanus* (Dlabola)**

Quadrastylum insulanum Dlabola, 1982: 143.

Distribution: Greece including the islands (Crete I., Kyklades Is., Sporades Is.), Turkey.

Identification: Dlabola 1982.

***Rhissolepus tubulatus* (Dlabola)**

Quadrastylum tubulatum Dlabola, 1989: 26.

Distribution: Turkey.

Identification: Dlabola 1989.

Genus *Scorlupaster* Emeljanov

Emeljanov, 1971: 625. Type species: *Hysteropterum asiaticum* Lethierry, 1878.

Composition and distribution: 6 species distributed in Kazakhstan, Middle Asia, and Iran. The genus is in need of revision.

***Scorlupaster alexandrae* Mitjaev**

Scorlupaster alexandrae Mitjaev, 2010: 5.

Distribution: Kazakhstan.

Identification: Mitjaev 2010.

***Scorlupaster asiaticum* (Lethierry)**

Hysteropterum asiaticum Lethierry, 1878: 27.

Hysteropterum tshurtshurnum Linnavuori, 1957: 96, syn. fide Dubovsky 1966: 59.

Distribution: Afghanistan, Iran, Kazakhstan, Uzbekistan.

Identification: Dubovsky 1966, Mitjaev 1971, 2010.

Biology: Mitjaev 2002.

Photos (Pl. 46, figs d–f): Uzbekistan, Tashkent (ZIN): ♀, frontal, dorsal and lateral views.

***Scorlupaster emersum* (Dlabola)**

Hysteropterum emersum Dlabola, 1981a: 184.

Distribution: Iran.

Identification: Dlabola 1981a.

***Scorlupaster ferganense* (Dubovsky)**

Hysteropterum ferganense Dubovsky, 1966: 59.

Distribution: Kyrgyzstan.

Identification: Dubovsky 1966, Mitjaev 2010.

Biology: Dubovsky 1966.

***Scorlupaster heptapotamicum* (Mitjaev)**

Hysteropterum heptapotamicum Mitjaev, 1971: 71.

Distribution: Kazakhstan.

Identification: Mitjaev 1971, 2010.

Biology: Mitjaev 2002.

***Scorlupaster karakunusum* (Mitjaev)**

Hysteropterum karakunusum Mitjaev, 1971: 71.

Distribution: Kazakhstan.

Identification: Mitjaev 1971, 2010.

Genus *Scorlupella* Emeljanov

Emeljanov, 1971: 624. Type species: *Issus discolor* Germar, 1821.

Composition and distribution: 10 species distributed in Southeastern Europe, Caucasus, Turkey, Iran, and Middle Asia. The genus is in need of revision.

***Scorlupella amica* Dlabola**

Scorlupella amica Dlabola, 1984: 53.

Distribution: Turkey.

Identification: Dlabola 1984.

***Scorlupella assimilis* (Horváth)**

Hysteropterum assimile Horváth, 1905: 188.

Distribution: Turkey.

Identification: Dlabola 1984.

***Scorlupella boulardi* Dlabola**

Scorlupella boulardi Dlabola, 1984: 55.

Distribution: Turkey.

Identification: Dlabola 1984.

Scorlupella corumica* DlabolaScorlupella corumica* Dlabola, 1982: 133.**Distribution:** Turkey.**Identification:** Dlabola 1982.***Scorlupella discolor* (Germar)***Issus discolor* Germar, 1821: 102.**Distribution:** Ukraine (Crimea), Romania, Bulgaria, ?Turkey (Demir & Demirsoy 2009).**Identification:** Logvinenko 1975a.**Biology:** Logvinenko 1975a.***Scorlupella medea* Logvinenko***Scorlupella medea* Logvinenko, 1976: 608.**Distribution:** Russia (Adygei Republic, Krasnodar Territory).**Identification:** Logvinenko 1976.**Photos (Pl. 47, figs d–f):** Russia, Adygei Republic (NMWC): ♂, frontal, dorsal and lateral views.**Note:** Probably the species is a junior synonym of *Scorlupella pulchella* (Ivanoff, 1885), but the type specimen of the last species is not located.***Scorlupella montana* (Becker)***Issus montanus* Becker, 1865: 482.**Distribution:** Armenia, Azerbaijan, Georgia, ?Greece (Chicote 1882), Iran, Kazakhstan, Kyrgyzstan, Moldova, ?Romania (Montandon 1900), Russia (Dagestan Republic, Kalmyk Republic, Krasnodar Territory, Orenburg Province, Rostov Province, Stavropol Territory, Volgograd Territory, Voronezh Province), Tajikistan, Turkey, Turkmenistan, Ukraine including Crimea, Uzbekistan.**Identification:** Gnezdilov 2001b.**Biology:** Emeljanov 1969, Logvinenko 1975a, Mitjaev 2002.***Scorlupella okalii* Dlabola***Scorlupella okalii* Dlabola, 1983: 134.**Distribution:** Georgia.**Identification:** Dlabola 1983.***Scorlupella pontica* Dlabola***Scorlupella pontica* Dlabola, 1982: 132.**Distribution:** Turkey.**Identification:** Dlabola 1982.***Scorlupella pulchella* (Ivanoff)***Hysteropterum pulchellum* Ivanoff, 1885: 107.**Distribution:** Russia (Stavropol Territory).**Identification:** Ivanoff 1885.**Genus *Semissus* Melichar**Melichar, 1906: 112. Type species: *Issus acuminatus* Lethierry, 1876.*Theryana* Bergevin, 1922: 129 (Type species: *Theryana semissoides* Bergevin, 1922), syn. fide Gnezdilov & Wilson 2005a: 422.**Composition and distribution:** 5 species known from Algeria and Morocco.***Semissus acuminatus* (Lethierry)***Issus acuminatus* Lethierry, 1876: 76.*Semissus tlemsenicus* Dlabola, 1987a: 66, syn. fide Gnezdilov & Wilson 2005a: 425.**Distribution:** Algeria, Morocco.**Identification:** Gnezdilov & Wilson 2005a.**Photos (Pl. 49, figs a–c):** Morocco (NMWC): ♂, frontal, dorsal and lateral views.***Semissus hesperidicus* Gnezdilov & Wilson***Semissus hesperidicus* Gnezdilov & Wilson, 2005a: 426.**Distribution:** Algeria.**Identification:** Gnezdilov & Wilson 2005a.**Photos (Pl. 48, fig. d):** Algeria (IRSNB): ♂ (holotype), frontal view.***Semissus hyadicus* Gnezdilov & Wilson***Semissus hyadicus* Gnezdilov & Wilson, 2005a: 424.**Distribution:** Morocco.**Identification:** Gnezdilov & Wilson 2005a.**Photos (Pl. 49, figs d–f):** Morocco (NMWC): ♀ (paratype), frontal, dorsal and lateral views.***Semissus pliadicus* Gnezdilov & Wilson***Semissus pliadicus* Gnezdilov & Wilson, 2005a: 424.**Distribution:** Morocco.**Identification:** Gnezdilov & Wilson 2005a.**Photos (Pl. 48, figs e–f):** Morocco (NMWC): ♂ (paratype), dorsal and lateral views.***Semissus semissoides* (Bergevin)***Theryana semissoides* Bergevin, 1922: 129.**Distribution:** Morocco.**Identification:** Gnezdilov & Wilson 2005a.**Photos (Pl. 48, figs a–c):** Morocco (BMNH): ♀, frontal, dorsal and lateral views.

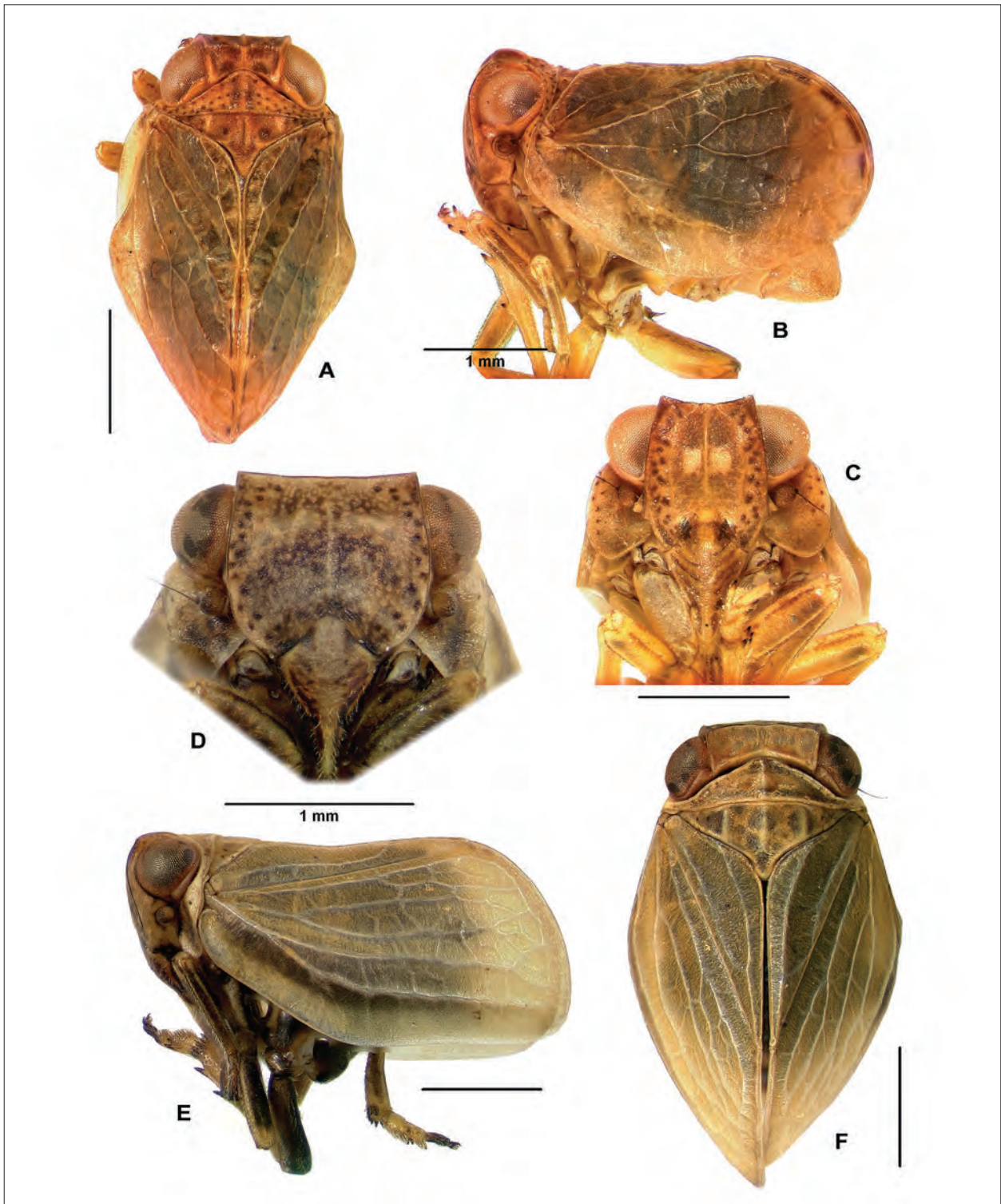


Plate 47. a, *Tautoprosopa transcaspia* (Emeljanov), male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Scorlupella medea* Logvinenko, male, frontal view; e, same, lateral view; f, same, dorsal view.

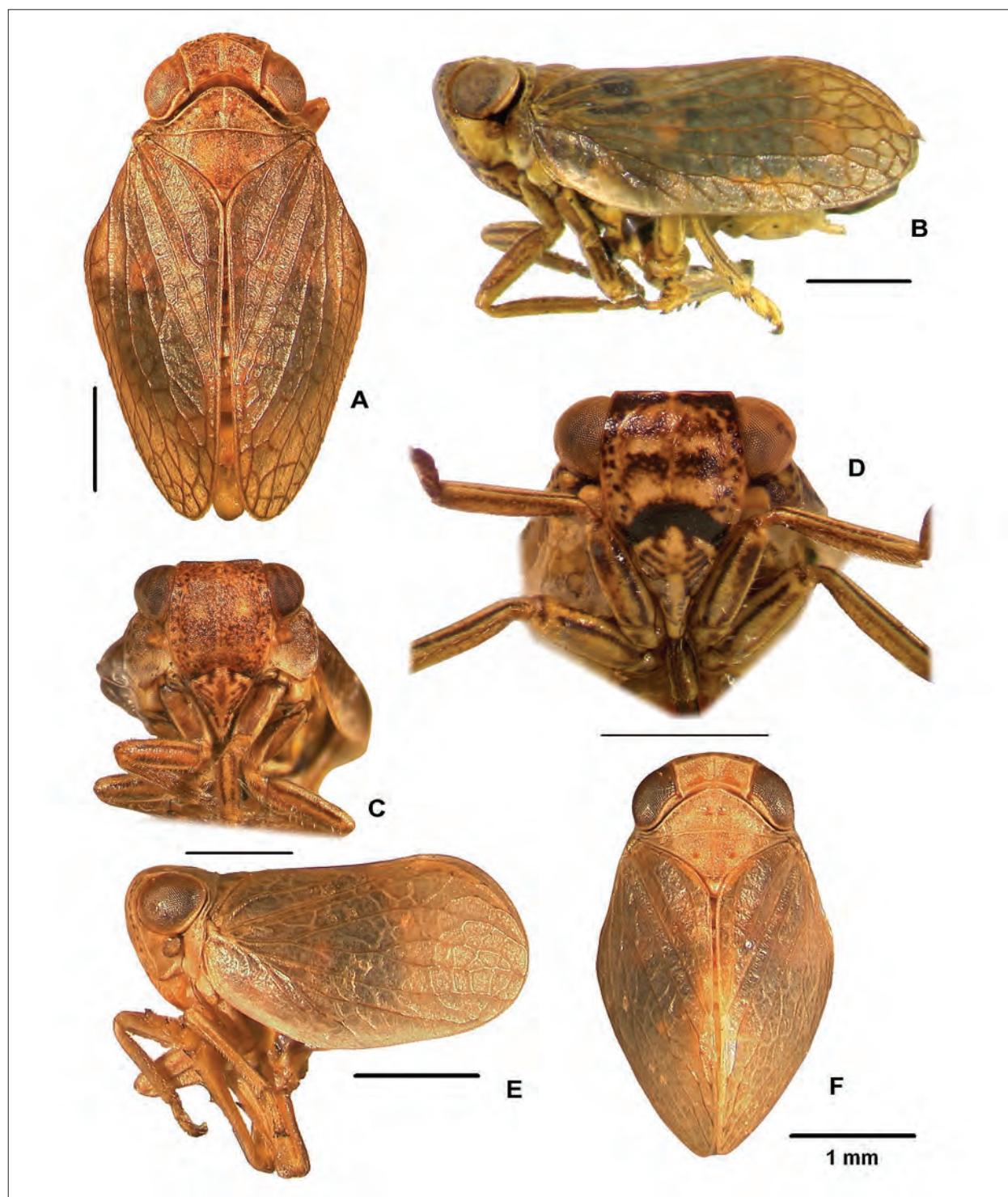


Plate 48. a, *Semissus semissoides* (Bergevin), female, dorsal view; b, same lateral view; c, same, frontal view; d, *Semissus hesperidicus* Gnezdilov & Wilson, male (holotype), frontal view; e, *Semissus pliadicus* Gnezdilov & Wilson, male (paratype), lateral view; f, same, dorsal view.

Genus *Sfaxia* Bergevin

Bergevin, 1917d: 8. Type species: *Sfaxia inermipes* Bergevin, 1917.

Planocostium Dlabola, 1982 (Type species: *Hysteropterum angusticeps* Lethierry, 1874), syn. fide Dlabola 1989: 31.

Composition and distribution: 4 species distributed in the Mediterranean Northern Africa.

***Sfaxia albogrisea* (Dlabola)**

Planocostium albogriseum Dlabola, 1984: 52.

Distribution: Tunisia.

Identification: Dlabola 1984.

***Sfaxia angusticeps* (Lethierry)**

Hysteropterum angusticeps Lethierry, 1874: 444.

Hysteropterum signatipes Melichar, 1906: 121, syn. fide Dlabola 1984: 50.

Sfaxia deserticola Bergevin, 1918c: 190, syn. fide Dlabola 1984: 50.

Distribution: Algeria, Libya.

Identification: Dlabola 1984.

***Sfaxia inermipes* Bergevin**

Sfaxia inermipes Bergevin, 1917d: 8.

Distribution: Libya, Tunisia.

Identification: Bergevin 1917d.

Photos (Pl. 50, figs d–f): Tunisia, Bis Kra (MNHN): ♂ (?syntype), frontal, dorsal and lateral views.

***Sfaxia producta* Linnavuori**

Sfaxia producta Linnavuori, 1965: 18.

Distribution: Libya.

Identification: Linnavuori 1965.

Photos (Pl. 50, figs a–c): Libya (ZIN): ♂, frontal, dorsal and lateral views.

Genus *Tautoprosopa* Emeljanov

Emeljanov, 1978: 332 (as subgenus of *Brachyprosopa* Kusnetzov, 1929). Type species: *Brachyprosopa transcaspia* Emeljanov, 1978.

Verticisium Dlabola, 1979a: 281 (Type species: *Hysteropterum pictifrons* (non Melichar, 1906): Dlabola 1979a, syn. fide Gnezdilov 2002a: 216.

Composition and distribution: Monotypical genus distributed in Iran, Kazakhstan, and Turkmenistan.

***Tautoprosopa transcaspia* (Emeljanov)**

Brachyprosopa transcaspia Emeljanov, 1978: 332.

Hysteropterum pictifrons (non Melichar, 1906): Linnavuori 1952: 191.

Verticisium pictifrons (non Melichar, 1906): Dlabola 1979a: 282.

Distribution: Iran, Kazakhstan, Turkmenistan.

Identification: Emeljanov 1978.

Biology: Mitjaev 2002.

Photos (Pl. 47, figs a–c): Iran (NMWC): ♂, frontal, dorsal and lateral views.

Genus *Tshurtshurnella* Kusnezov

Kusnezov, 1927: 219. Type species: *Tshurtshurnella eugeniae* Kusnezov, 1927.

Megissus Linnavuori, 1965: 67 (Type species: *Megissus acutus* Linnavuori, 1965), syn. fide Dlabola 1979a: 269.

Composition and distribution: Eastern Mediterranean genus with 40 species mostly distributed in Turkey (29 species).

***Tshurtshurnella acigoelica* Dlabola**

Tshurtshurnella acigoelica Dlabola, 1983: 128.

Distribution: Turkey.

Identification: Dlabola 1983.

***Tshurtshurnella acuta* (Linnavuori)**

Megissus acutus Linnavuori, 1965: 68.

Distribution: Turkey.

Identification: Linnavuori 1965.

Photos (Pl. 51, figs a–c): Turkey (NMWC): ♀ (paratype), frontal, dorsal and lateral views.

***Tshurtshurnella adana* Dlabola**

Tshurtshurnella adana Dlabola, 1986: 184.

Distribution: Turkey.

Identification: Dlabola 1986.

***Tshurtshurnella akdagica* Kartal**

Tshurtshurnella akdagica Kartal, 1985b: 70.

Distribution: Turkey.

Identification: Kartal 1985b.

***Tshurtshurnella alanyana* Dlabola**

Tshurtshurnella alanyana Dlabola, 1982: 149.

Distribution: Turkey.

Identification: Dlabola 1982.

Tshurtshurnella armatissima* (Linnavuori)Hysteropterum armatissimum* Linnavuori, 1962: 18.**Distribution:** Greece, Italy.**Identification:** Linnavuori 1962.***Tshurtshurnella aschei* Kartal***Tshurtshurnella aschei* Kartal, 1985a: 200.**Distribution:** Turkey.**Identification:** Kartal 1985a.***Tshurtshurnella bicornuta* Dlabola***Tshurtshurnella bicornuta* Dlabola, 1983: 127.**Distribution:** Turkey.**Identification:** Dlabola 1983.***Tshurtshurnella bozarmutica* Kartal***Tshurtshurnella bozarmutica* Kartal, 1985a: 203.**Distribution:** Turkey.**Identification:** Kartal 1985a.***Tshurtshurnella campestris* (Lindberg)***Hysteropterum campestre* Lindberg, 1948: 121.*Hysteropterum campestre bidens* Linnavuori, 1965: 66, syn. fide Dlabola 1980a: 222.**Distribution:** Cyprus, Turkey.**Identification:** Lindberg 1948, Kartal 1985a.***Tshurtshurnella cappadocica* (Dlabola)***Hysteropterum cappadocicum* Dlabola, 1981a: 188.**Distribution:** Turkey.**Identification:** Dlabola 1981a.***Tshurtshurnella carica* Gnezdilov***Tshurtshurnella carica* Gnezdilov, 2002d: 236.**Distribution:** Turkey.**Identification:** Gnezdilov 2002d.***Tshurtshurnella despecta* (Linnavuori)***Hysteropterum despectum* Linnavuori, 1965: 65.**Distribution:** Turkey.**Identification:** Linnavuori 1965, Kartal 1985b.***Tshurtshurnella diyarbakira* Dlabola***Tshurtshurnella diyarbakira* Dlabola, 1980a: 221.**Distribution:** Turkey.**Identification:** Dlabola 1980a.***Tshurtshurnella duffelsi* (Dlabola)***Hysteropterum duffelsi* Dlabola, 1975: 75.**Distribution:** Cyprus.**Identification:** Dlabola 1975.***Tshurtshurnella edremitica* Dlabola***Tshurtshurnella edremitica* Dlabola, 1982: 166.**Distribution:** Turkey.**Identification:** Dlabola 1982.***Tshurtshurnella elmalica* Kartal***Tshurtshurnella elmalica* Kartal, 1985a: 206.**Distribution:** Turkey.**Identification:** Kartal 1985a.***Tshurtshurnella eugeniae* Kusnezov***Tshurtshurnella eugeniae* Kusnezov, 1927: 220.**Distribution:** Russia (Belgorod Province), Ukraine including Crimea.**Identification:** Gnezdilov 2002d.**Biology:** Logvinenko 1975a.**Photos (Pl. 52, figs d–f):** Ukraine, Crimea (ZIN): ♂, frontal, dorsal and lateral views.***Tshurtshurnella extrema* Dlabola***Tshurtshurnella extrema* Dlabola, 1980a: 220.**Distribution:** Turkey.**Identification:** Dlabola 1980a.***Tshurtshurnella hani* Gnezdilov***Tshurtshurnella hani* Gnezdilov, 2002d: 235.**Distribution:** Lebanon.**Identification:** Gnezdilov 2002d.**Photos (Pl. 52, figs a–c):** Lebanon (ZIN): ♀ (paratype), frontal, dorsal and lateral views.***Tshurtshurnella kalkandelenica* Dlabola***Tshurtshurnella kalkandelenica* Dlabola, 1982: 147.**Distribution:** Turkey.**Identification:** Dlabola 1982.***Tshurtshurnella konstanto* Gnezdilov & Drosopoulos***Tshurtshurnella konstanto* Gnezdilov & Drosopoulos, 2006: 775.**Distribution:** Greece.**Identification:** Gnezdilov & Drosopoulos 2006.***Tshurtshurnella linnavuorii* Dlabola***Tshurtshurnella linnavuorii* Dlabola, 1985: 226.

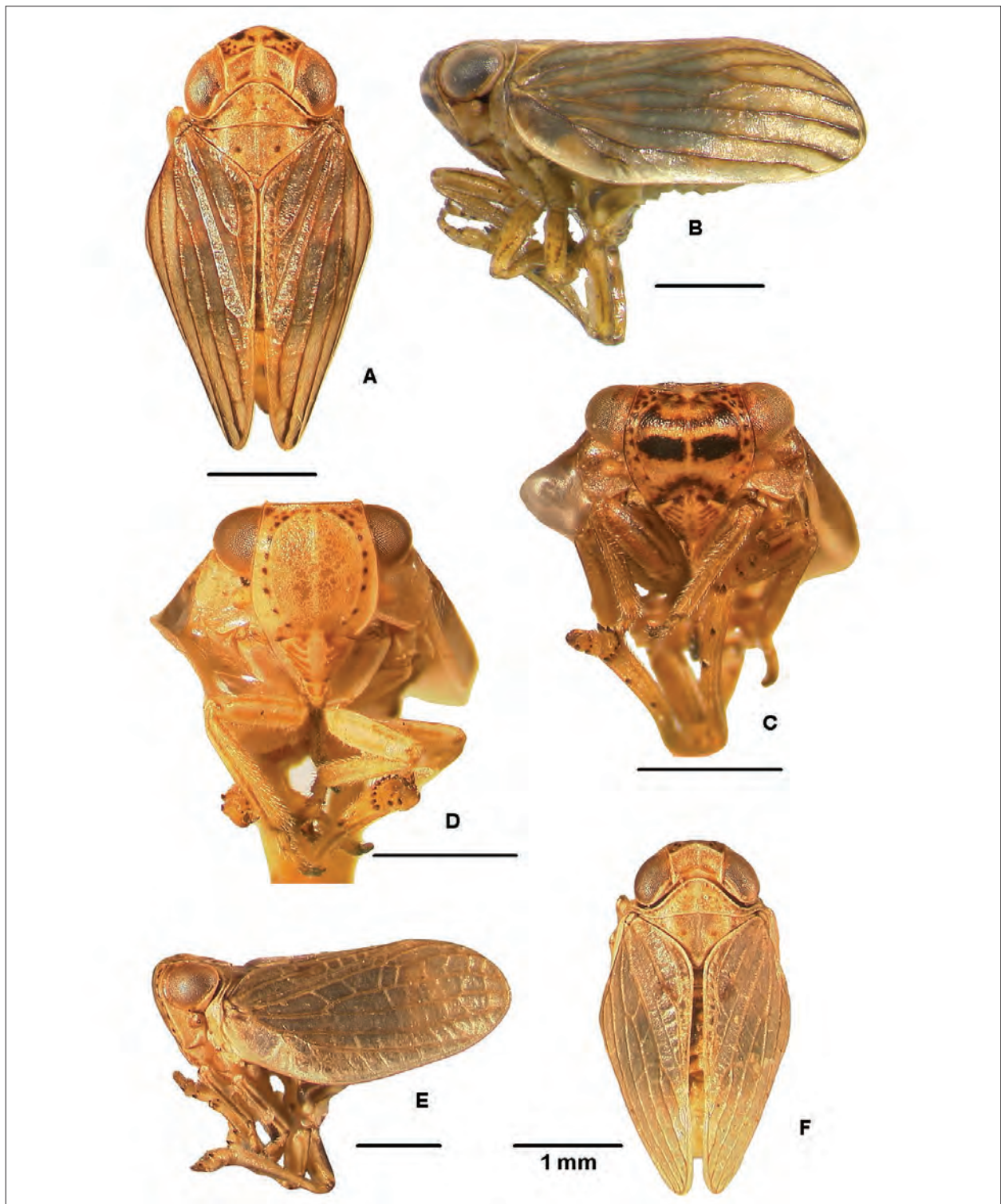


Plate 49. a, *Semissus acuminatus* (Lethierry), male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Semissus hyadicus* Gnezdilov & Wilson, female (paratype), frontal view; e, same, lateral view; f, same, dorsal view.

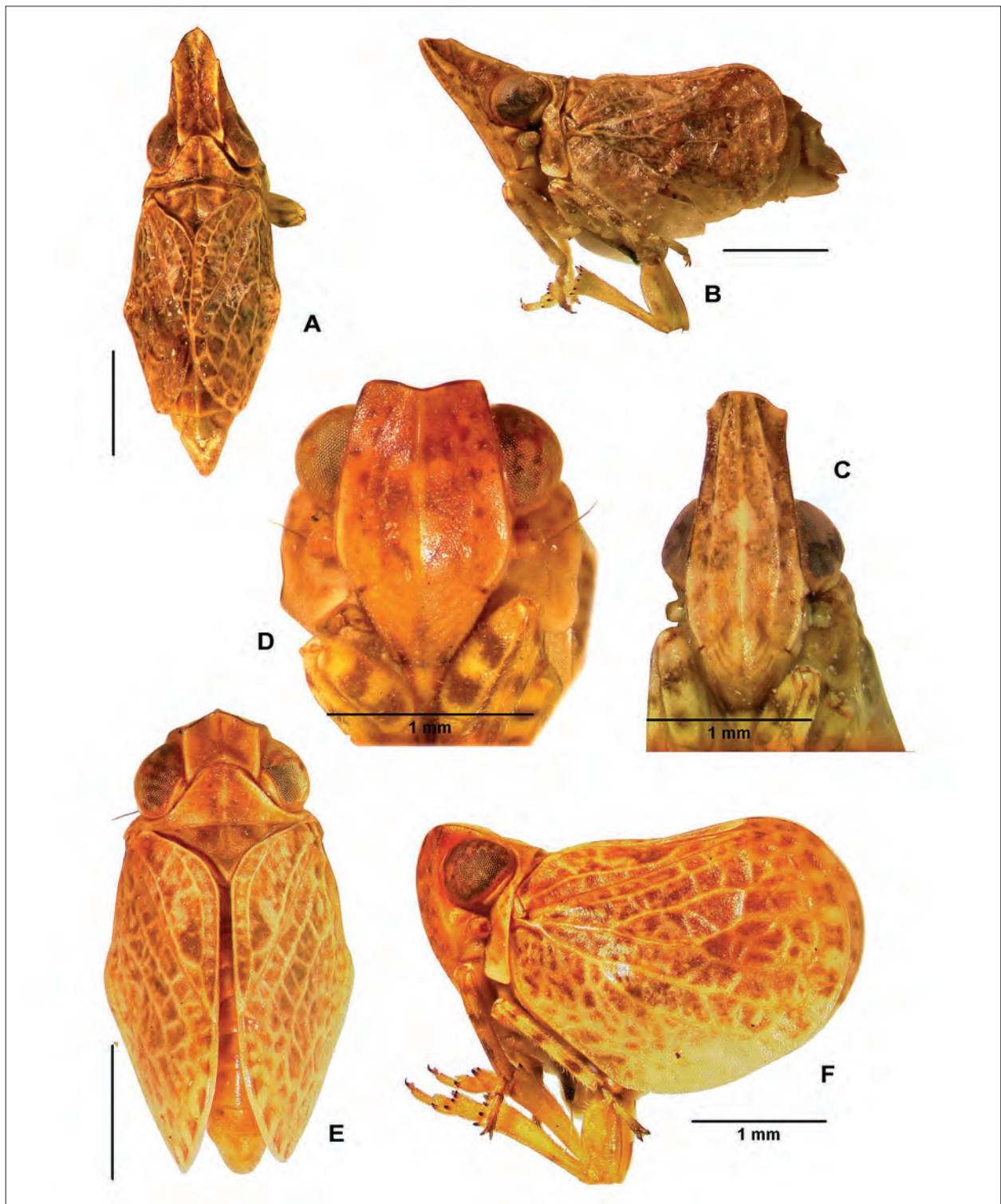


Plate 50. a, *Sfaxia producta* Linnavuori, male, dorsal view; b, same, lateral view; c, same, frontal view; d, *Sfaxia inermipes* Bergevin, male (?syntype), frontal view; e, same, dorsal view; f, same, lateral view.

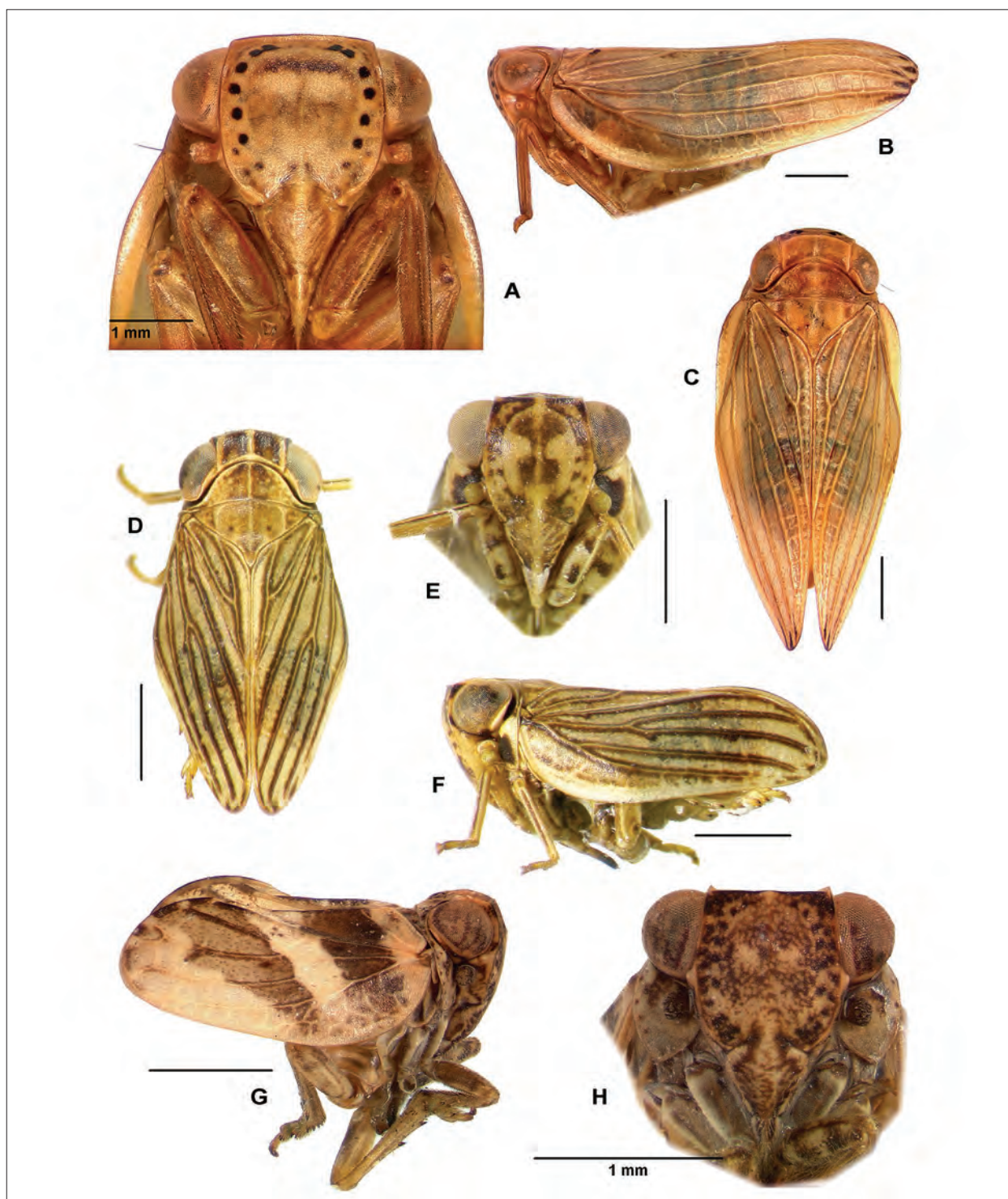


Plate 51. a, *Tshurtshurnella acuta* (Linnavuori), female (paratype), frontal view; b, same, lateral view; c, same, dorsal view; d, *Tshurtshurnella peloponica* Dlabola, male (holotype), dorsal view; e, same, frontal view; f, same, lateral view; g, *Tshurtshurnella trifasciata* (Linnavuori), male, lateral view; h, same, frontal view.

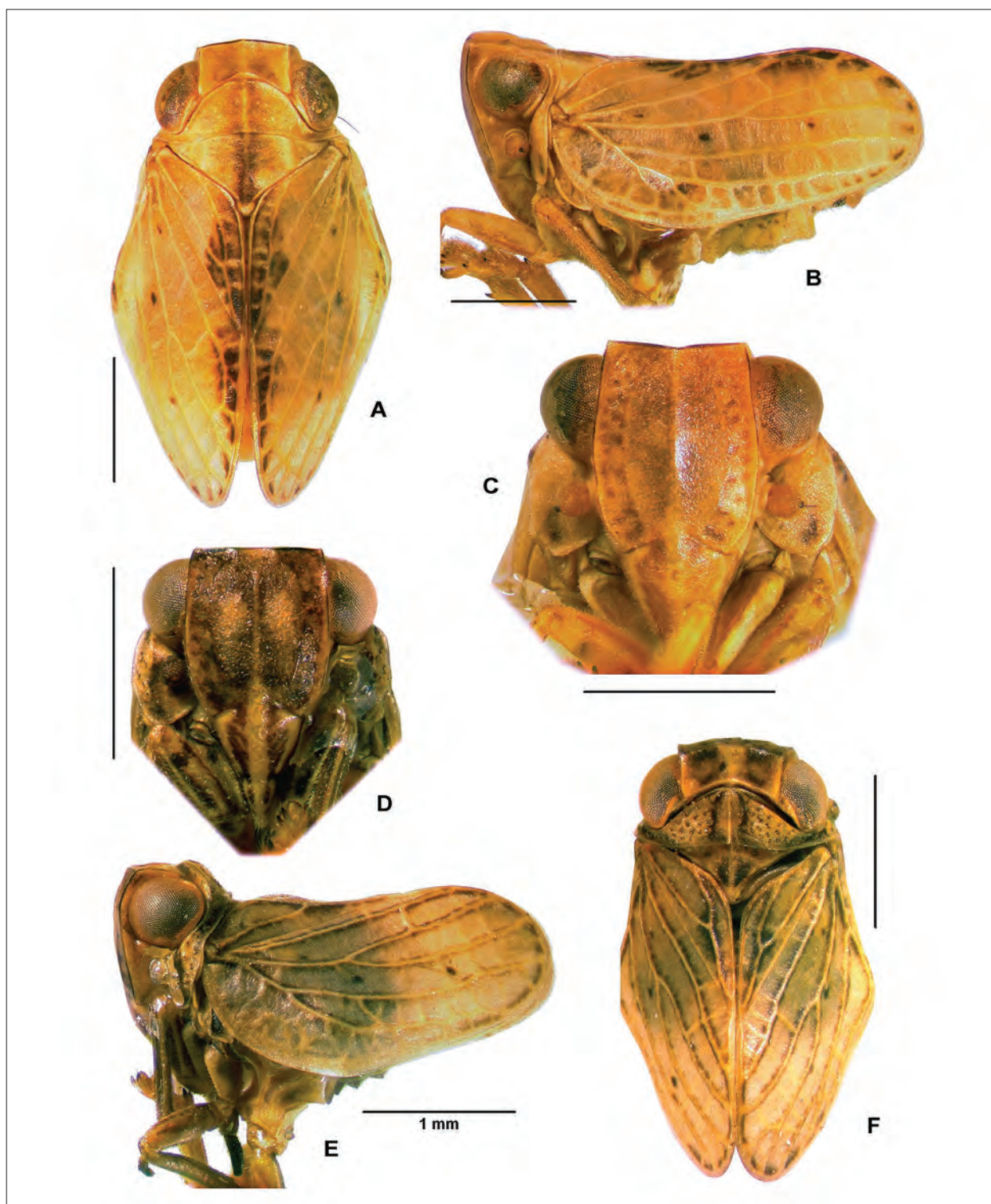


Plate 52. a, *Tshurtshurnella hani* Gnezdilov, female (paratype), dorsal view; b, same, lateral view; c, same, frontal view; d, *Tshurtshurnella eugeniae* Kusnezov, male, frontal view; e, same, lateral view; f, same, dorsal view.

Distribution: Turkey.

Identification: Dlabola 1985.

***Tshurtshurnella lodosi* Dlabola**

Tshurtshurnella lodosi Dlabola, 1979a: 270.

Distribution: Iraq, Turkey.

Identification: Dlabola 1979a.

***Tshurtshurnella longispinosa* (Linnavuori)**

Hysteropterum campestre longispinosum Linnavuori, 1962: 20.

Distribution: Israel, Turkey.

Identification: Linnavuori 1962, Kartal 1985a.

***Tshurtshurnella mesopotamica* Dlabola**

Tshurtshurnella mesopotamica Dlabola, 1979a: 272.

Distribution: Iraq.

Identification: Dlabola 1979a.

***Tshurtshurnella moreana* Dlabola**

Tshurtshurnella moreana Dlabola, 1979a: 269.

Distribution: Greece.

Identification: Dlabola 1979a.

***Tshurtshurnella mysica* Gnezdilov**

Tshurtshurnella mysica Gnezdilov, 2002d: 235.

Distribution: Turkey.

Identification: Gnezdilov 2002d.

***Tshurtshurnella peloponica* Dlabola**

Tshurtshurnella peloponica Dlabola, 1979a: 271.

Distribution: Greece, ?Turkey (Demir 2007).

Identification: Dlabola 1979a.

Photos (Pl. 51, figs d–f): Greece (ZMAN): ♂ (holotype), frontal, dorsal and lateral views.

***Tshurtshurnella pythia* Dlabola**

Tshurtshurnella pythia Dlabola, 1979a: 270.

Distribution: Greece.

Identification: Dlabola 1979a.

***Tshurtshurnella ramosa* Dlabola**

Tshurtshurnella ramosa Dlabola, 1982: 145.

Distribution: Turkey.

Identification: Dlabola 1982.

***Tshurtshurnella rhombica* Dlabola**

Tshurtshurnella rhombica Dlabola, 1982: 165.

Distribution: Turkey.

Identification: Dlabola 1982, Kartal 1985c.

***Tshurtshurnella serapae* Kartal**

Tshurtshurnella serapae Kartal, 1985a: 192.

Distribution: Turkey.

Identification: Kartal 1985a.

***Tshurtshurnella striolata* (Fieber)**

Hysteropterum striolatum Fieber, 1877: 32.

Distribution: Greece.

Identification: Gnezdilov, Soulier-Perkins & Bourgoin 2011.

***Tshurtshurnella trifasciata* (Linnavuori)**

Hysteropterum trifasciatum Linnavuori, 1965: 67.

Tshurtshurnella zebrina Dlabola, 1987c: 304, syn. fide Gnezdilov, Drosopoulos & Wilson 2004: 218.

Distribution: Syria, Turkey.

Identification: Linnavuori 1965, Dlabola 1987c, Kartal 1985a.

Photos (Pl. 51, figs g, h): Syria (NMWC): ♂, frontal and lateral views.

***Tshurtshurnella uvarovi* Gnezdilov**

Tshurtshurnella uvarovi Gnezdilov, 2002d: 235.

Distribution: Turkey.

Identification: Gnezdilov 2002d.

***Tshurtshurnella ventricornis* Dlabola**

Tshurtshurnella ventricornis Dlabola, 1986: 185.

Distribution: Turkey.

Identification: Dlabola 1986.

***Tshurtshurnella verbasci* Dlabola**

Tshurtshurnella verbasci Dlabola, 1983: 125.

Distribution: Turkey.

Identification: Dlabola 1983.

***Tshurtshurnella yozgatica* Kartal**

Tshurtshurnella yozgatica Kartal, 1985b: 69.

Distribution: Turkey.

Identification: Kartal 1985b.

***Tshurtshurnella zelleri* (Kirschbaum)**

Hysteropterum zelleri Kirschbaum, 1868: 53.

Hysteropterum pseudarmatum Linnavuori, 1965: 65, syn. fide Dlabola 1984: 65.

Distribution: Greece, Italy.

Identification: Linnavuori 1965, Dlabola 1979a.

Genus *Webbisanus* Dlabola

Dlabola, 1983: 120. Type species: *Webbisanus ochreicolor* Dlabola, 1983.

Composition and distribution: Monotypical genus — endemic to Turkey.

***Webbisanus ochreicolor* Dlabola**

Webbisanus ochreicolor Dlabola, 1983: 120.

Distribution: Turkey.

Identification: Dlabola 1983.

Photos (Pl. 53, figs a–c): Turkey (BMNH): ♂ (holotype), frontal, dorsal and lateral views.

Genus *Zopherisca* Emeljanov

Emeljanov, 2001a: 99. Type species: *Issus tendinosus* Spinola, 1839.

Composition and distribution: 3 species known from the Balkan Peninsula.

***Zopherisca penelopeae* (Dlabola)**

Latilica penelopeae Dlabola, 1974c: 300.

Distribution: Greece.

Identification: Gnezdilov & Drosopoulos 2006.

Biology: Gnezdilov & Drosopoulos 2006.

***Zopherisca skaloula* Gnezdilov & Drosopoulos**

Zopherisca tendinosa skaloula Gnezdilov & Drosopoulos, 2006: 778.

Distribution: Greece.

Identification: Gnezdilov & Drosopoulos 2006.

Biology: Gnezdilov & Drosopoulos 2006.

***Zopherisca tendinosa* (Spinola)**

Issus tendinosus Spinola, 1839: 349.

Distribution: Bulgaria, Croatia, Greece.

Identification: Gnezdilov & Drosopoulos 2006.

Photos (Pl. 53, figs d–f): Bulgaria (ZIN): ♂, frontal, dorsal and lateral views.

SPECIES OF UNCERTAIN POSITION***Hysteropterum pallidum* Melichar**

Hysteropterum pallidum Melichar, 1906: 127.

Distribution: Algeria.

Identification: no illustrations were published.

Note: The type specimen is not located. Probably the species belongs to the genus *Lethierium* Dlabola, 1980 or to the genus *Agalmatium* Emeljanov, 1971.

***Hysteropterum subangulare* Rey**

Hysteropterum subangulare Rey, 1891: 241.

Identification: no illustrations were published.

Note: Type locality is unknown. The type specimen is not located.

***Issus algiricus* Lucas**

Issus algiricus Lucas, 1849a: 104.

Distribution: Algeria.

Identification: Lucas 1849a, 1849b.

Note: The type specimen is not located. Apparently the species belongs to the genus *Lindbergatum* Dlabola, 1984 according to the drawings by Lucas (1849b, pl. 4, fig. 9).

***Libanissum malickyi* Dlabola**

Libanissum malickyi Dlabola, 1989: 23.

Distribution: France (Corsica I.).

Identification: Dlabola 1989.

Note: The taxonomic position of the species is under revision.

***Quadriva bloetei* (Dlabola)**

Hysteropterum bloetei Dlabola, 1982: 164.

Distribution: Spain.

Identification: Dlabola 1982.

Note: The taxonomic position of the species is in need of revision. Probably it belongs to the genus *Palmallorcus* Gnezdilov, 2003.

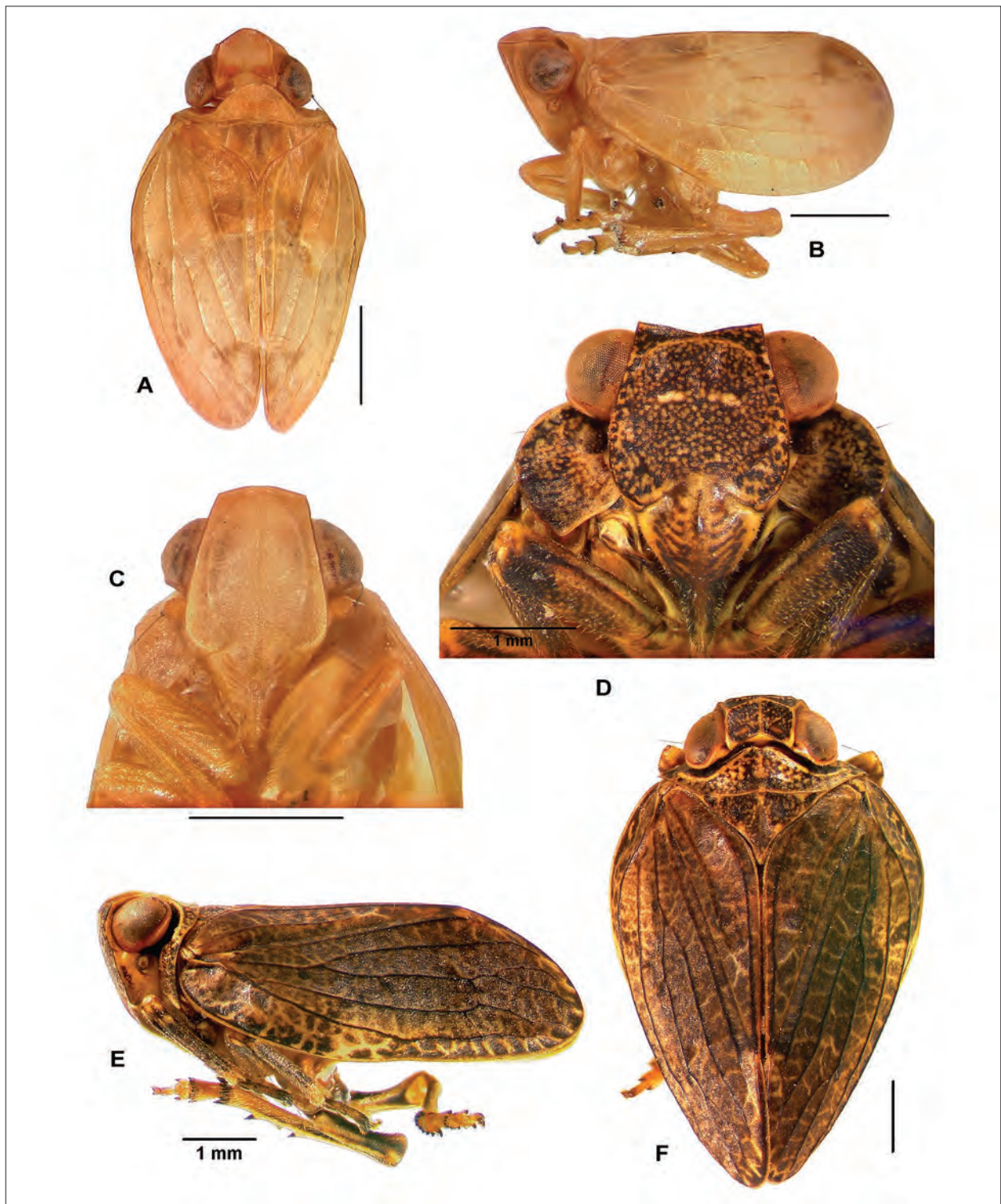


Plate 53. a, *Webbisanus ochreicolor* Dlabola, male (holotype), dorsal view; b, same, lateral view; c, same, frontal view; d, *Zopherisca tendinosa* (Spinola), male, frontal view; e, same, lateral view; f, same, dorsal view.

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INDEX TO GENERA, SPECIES, AND HIGHER GROUPS

Synonyms in *Italics*. Pages with illustrations in **Bold**. Genus following species name is current placement.

A

abdulnouri Dlabola, 1987 *Issus* 26
 abdulnouri Gnezdilov, 2004 *Latilica* 62
 abruzicum Dlabola, 1983 *Mulsantereum* 79
 abruptum Bergevin, 1920 *Agalmatium* 31
 abyssinica Synave, 1956 *Kovacsiana* 61, 62
 Acanaloniidae Amyot & Serville, 1843 6
 acigoelica Dlabola, 1983 *Tshurtshurnella* 92
 Aconosimus Dlabola, 1987 68, 75
 Acrestia Dlabola, 1980 41, 44
 acuminatus Lethierry, 1876 *Semissus* 89, 94
 acuta Linnavuori, 1965 *Tshurtshurnella* 92, 96
 adana Dlabola, 1986 *Tshurtshurnella* 92
 Adenissini Dlabola, 1980 6
 adyoungi Dlabola, 1982 *Phasmena* 82
 Aegaeum Gnezdilov, 2003 68, 78
Aeluropsis Emeljanov, 1971 40, 41
 afrolauri Sergel, 1986 *Issus* 26
 Agalmatiina Gnezdilov, 2002 6, 23, 31
 Agalmatium Emeljanov, 1971 23, 31, 99
 aghilica Dlabola, 1982 *Quadriva* 83
 akdagica Kartal, 1985 *Tshurtshurnella* 92
 alanyana Dlabola, 1982 *Tshurtshurnella* 92
 alatus Logvinenko, 1968 *Mycterodus* 77
 albaceticum Dlabola, 1983 *Hysteropterum* 55, 57
 albobrisea Dlabola, 1984 *Sfaxis* 92
alciranum Gnezdilov, 2003 *Hysteropterum* 55
 alexandrae Mitjaev, 2010 *Scorlupaster* 88
 algiricus Lucas, 1849 *Issus* 99
 alicantium Dlabola, 1986 *Hysteropterum* 55
 Alloscelis Kusnezov, 1930 23, 35
 allotria Lukjanova, 1991 *Quadriva* 83, 86
 alosa Emeljanov, 1978 *Anatonga* 19, 35, 39
 amasica Kartal & Karavin, 2010 *Bubastia* 41
 amica Dlabola, 1984 *Scorlupella* 88
 amygdalinus Dlabola, 1980 *Iranodus* 58, 61
 analis Brullé, 1832 *Issus* 26
 anaticeps Puton, 1895 *Mycterodus* 68
 anatolica Dlabola, 1979 *Kervillea* 58
 anatolicus Dlabola, 1981 *Mycterodus* 77
 Anatolodus Dlabola, 1982 25, 35
 anatoloriens Dlabola, 1979 *Mycterodus* 77

Anatonga Emeljanov, 2001 25, 35
 ancyrana Bergevin, 1918 *Kervillea* 58
 angulare Fieber, 1877 *Bergevinium* 40
 angusticeps Lethierry, 1874 *Sfaxis* 92
angustum Melichar, 1906 *Agalmatium* 31
 antalyica Dlabola, 1986 *Latilica* 62
 apterus Fabricius, 1794 *Falcidius* 19, 49, 52
Archissus Sergel, 1986 26
 ardakanum Dlabola, 1980 *Cavatorium* 45
areolatum A. Costa, 1883 *Falcidius* 49
 armatissima Linnavuori, 1962 *Tshurtshurnella* 93
 armeniacus Logvinenko, 1974 *Mycterodus* 77
 arpadi Dlabola, 1977 *Mycterodus* 68
 artemisiae Ghauri, 1965 *Quadriva* 83
 aschei Kartal, 1985 *Tshurtshurnella* 93
 asiaticum Lethierry, 1878 *Scorlupaster* 87, 88
 aspernatus Gnezdilov, 2001 *Mycterodus* 68, 72, 74, 76
 aspinosus Dlabola, 1982 *Rhissolepus* 88
 assimilis Horváth, 1905 *Scorlupella* 88
 astragalicus Dlabola, 1974 *Mycterodus* 68
 astyages Dlabola, 1982 *Inflatodus* 55
 atlasense Lindberg, 1964 *Lindbergatium* 34
 atomata Mitjaev, 1971 *Celyphoma* 45
 Atticus Gnezdilov, 2003 63
 Auchenorrhyncha Duméril, 1806 6, 10, 11, 14
 aurita Dlabola, 1982 *Quadriva* 83
 aylae Dlabola, 1987 *Kervillea* 58
 azerbeidzhanicus Dlabola, 1983 *Mycterodus* 77

B

Balduza Gnezdilov & O'Brien, 2006 14
 balearicus Dlabola, 1982 *Palmallorcus* 79
 balikesiricus Dlabola, 1979 *Mycterodus* 68
 bamicus Dlabola, 1980 *Pentissus* 82, 84
Barbarissus Gnezdilov, 2003 79
 basinigra Dlabola, 1982 *Kervillea* 59
 batathen Gnezdilov, 2003 *Mycterodus* 72, 74, 76, 78
 battandieri Bergevin, 1923 *Lindbergatium* 34
 batumus Dlabola, 1958 *Mycterodus* 68, 77
beameri Doering, 1958 *Agalmatium* 31
 bellardi Melichar, 1906 *Issus* 26
bergevinii Lindberg, 1963 *Falcidius* 54
 bergevini Dlabola, 1984 *Fieberium* 54
 Bergevinium Gnezdilov, 2003 24, 40
 bernhaueri Dlabola, 1997 *Mycterodus* 79
 beysehirica Dlabola, 1983 *Kervillea* 59
 biarmata Chelpakova, 1989 *Celyphoma* 45
 bicornuta Kusnezov, 1929 *Brachyprosopa* 40
 bicornuta Dlabola, 1983 *Tshurtshurnella* 93

bicornutus Dlabola, 1986 Mycterodus 78
 biemani Gnezdilov, 2005 Palmallorcus 79, 81
 bilobum Fieber, 1877 Agalmatium 7, 15, 16, 31, 32
 bimaculatus Melichar, 1906 Issus 26
 bispinatum Dlabola, 1980 Cavatorium 22, 44, 45
 bloetei Dlabola, 1982 Quadriua 99
 bogutica Mitjaev, 1995 Celyphoma 45
 Bootheca Emeljanov, 1964 23, 40
 bouldardi Dlabola, 1984 Scorlupella 88
 bozarmutica Kartal, 1985 Tshurtshurnella 93
 Brachyprosopa Kusnezov, 1929 14, 23, 40, 92
 breviuscula Emeljanov, 1978 Phasmena 21, 82
 Bubastia Emeljanov, 1975 40, 41

C

Caepovultus Gnezdilov & Wilson, 2007 24, 44
 cagola Remane, 1985 Issus 26
 cagracala Remane, 1985 Issus 26
 cahipi Remane, 1985 Issus 26
 Caliscelidae Amyot & Serville, 1843 6
 campanuliformis Dlabola, 1979 Kervillea 59
 campestris Lindberg, 1948 Tshurtshurnella 93
campestre bidens Linnavuori, 1965 Tshurtshurnella 93
 canalaurisi Sergel, 1986 Issus 26
 canariensis Melichar, 1906 Issus 26
 candidum Bergevin, 1919 Fieberium 54
 capala Remane, 1985 Issus 26
 capapi Remane, 1985 Issus 26
 capitatus Dlabola, 1982 Mycterodus 78
 Capititudes Gnezdilov, Drosopoulos & Wilson, 2004 41, 44
 cappadocica Dlabola, 1981 Tshurtshurnella 93
caraganae Dlabola, 1968 Phasmena 82
 cardinalis Emeljanov, 1978 Phasmena 82, 85
 carica Gnezdilov, 2002 Tshurtshurnella 93
 carinatus Logvinenko, 1978 Inflatodus 55
 carpathicus Logvinenko, 1974 Mycterodus 69
 caucasicus Melichar, 1906 Mycterodus 78
caucasicus Melichar, 1914 Mycterodus 77
 Cavatorium Dlabola, 1980 25, 44
 cedricolum Dlabola, 1989 Lethierium 63, 70
 Celyphoma Emeljanov, 1971 6, 25, 45
 chelifer Lukjanova, 1992 Celyphoma 45
 chlorizans Rey, 1891 Falcidius 49
 chorassanicus Logvinenko, 1974 Mycterodus 69
 cinereus Olivier, 1791 Issus 26
 cingulatum Dlabola, 1983 Pamphylium 16, 82, 84
 circinalis Dlabola, 1994 Libanissum 63
 climacus Fieber, 1876 Issus 27
 Clybeccus Gnezdilov, 2003 23, 31

coelatus Mulsant & Rey, 1855 Conosimus 15, 48, 50
 coelimonatana Emeljanov, 1978 Celyphoma 22, 45
 coleoptratus Fabricius, 1781 Issus 7, 27, 28, 29
 colossicus Dlabola, 1987 Mycterodus 75
 Colpopterini Gnezdilov, 2003 6
 Compodorus Kocak, 1982 68, 77
 confusus Stål, 1861 Mycterodus 69
 Conosimus Mulsant & Rey, 1855 24, 48
 conspurcata Spinola, 1839 Kervillea 15, 59, 64
 contorta Yang, 1994 Eusarima 49
 corniculata Puton, 1890 Bubastia 41
 coronata Logvinenko, 1977 Kervillea 59
 corrugata Emeljanov, 1978 Celyphoma 45
 corsicum Dlabola, 1982 Fieberium 54
corsicus Lethierry, 1876 Conosimus 48
 corumica Dlabola, 1982 Scorlupella 89
 Corymbius Gnezdilov, 2002 25, 49
 costale Matsumura, 1910 Agalmatium 31
 croaticus Gnezdilov & Wilson, 2005 Mycterodus 75
 cuniceps Melichar, 1906 Mycterodus 15, 69, 72, 74, 76
 cypriacum Dlabola, 1982 Pamphylium 21, 82
 cyrenaica Linnavuori, 1965 Bubastia 41
 curtulum Melichar, 1906 Agalmatium 31
 cygnetis Fieber, 1877 Latematium 63, 66

D

Dalmatium Dlabola, 1980 62
 declivus Dlabola, 1986 Clybeccus 32, 34
 deemingi Gnezdilov & Wilson, 2007 Caepovultus 44, 46
 dehbakrina Dlabola, 1980 Quadriua 83
 demavendinus Dlabola, 1981 Mycterodus 69
 denticulatus Lindberg, 1948 Mycterodus 69
deserticola Bergevin, 1918 Sfaxia 92
 deserticolum Linnavuori, 1962 Fieberium 54
 despecta Linnavuori, 1965 Tshurtshurnella 93
 dietrichi Anufriev, 2004 Celyphoma 45
 dilatata Emeljanov, 1978 Celyphoma 45
 dilatatus Fourcroy, 1785 Latissus 19, 29, 30
 diphtheriopsis Bergevin, 1919 Falcidius 49
 discolor Germar, 1821 Scorlupella 89
dispersus Lindberg, 1954 Issus 26
 distinguendus Lindberg, 1954 Issus 27
 distinguendum Kirschbaum, 1868 Palaeolithium 16, 79, 80
 diyarbakira Dlabola, 1980 Tshurtshurnella 93
 dlabolai Gnezdilov, 2003 Iberanum 16, 18, 33, 34
 dolichotum Gnezdilov & Mazzoni, 2004 Hysterop-
 terum 15, 55
dohrnii Kirschbaum, 1868 Kervillea 59
 doriae Ferrari, 1884 Falcidius 49

drosopoulosi Dlabola, 1982 Mycterodus 69
 draense Lindberg, 1964 Lindbergatium 34
 drahamense Linnavuori, 1965 Bergevinium 40
dubium Melichar, 1906 Agalmatium 31
dubiosum Matsumura, 1910 Agalmatium 31
 duffelsi Dlabola, 1975 Tshurtshurnella 93
 duffelsicus Dlabola, 1982 Falcidius 49, **53**
dufourii Spinola, 1839 Agalmatium 31
 dumetorus Dlabola, 1981 Iranodus 58
 dzhungarica Mitjaev, 1995 Celyphoma 45

E

ebejeri Gnezdilov & Wilson, 2008 Falcidius 49
 edremetica Dlabola, 1982 Tshurtshurnella 93
 efesicus Dlabola, 1971b Mycterodus 69, **72, 74, 76**
 elbursicus Logvinenko, 1974 Mycterodus 77
 elmalica Kartal, 1985 Tshurtshurnella 93
 emeljanovi Anufriev, 2004 Celyphoma 45
emeljanovi Logvinenko, 1975 Latilica 62
 emersum Dlabola, 1981 Scorlupaster 20, 88
enitidum Dlabola, 1961 Brachyprosopa 40
enitidum var. *inhonora* Dlabola, 1961 Brachyprosopa 40
 ephialtes Linnavuori, 1971 Bubastia 41, **46**
 epunctata Mitjaev, 1971 Kervillea 59
 ergenensis Becker, 1865 Rhissolepus 88
 etruscus Dlabola, 1980 Mycterodus 69
 eugeniae Kusnezov, 1927 Tshurtshurnella 17, 92, 93, **97**
 evanescens Bergevin, 1919 Lindbergatium 34, **36**
euryproctum Kirschbaum, 1868 Agalmatium 31
 Eusarima Yang, 1994 23, 49
 extrema Dlabola, 1980 Tshurtshurnella 93

F

fagetophilus Dlabola, 1980 Mycterodus 69
Falcidiopsis Kusnezov, 1930 58
 Falcidius Stål, 1866 23, 49
fallaciosum Matsumura, 1910 Kervillea 59
 ferganense Dubovsky, 1966 Scorlupaster 88
 fieberi Melichar, 1906 Issus 27
 Fieberium Dlabola, 1980 24, 54
 flavescens Olivier, 1791 Agalmatium 6, 31
 flavosuturale Lindberg, 1956 Fieberium 54
 forficeps Dlabola, 1986 Latilica 62
 frontalis Fieber, 1876 Issus 27
 fruticulina Emeljanov, 1964 Celyphoma 45, **47**
 Fulgoroidea Kirkaldy, 1907 5, 11, 14
 Fulgoromorpha Evans, 1946 6
 furcata Lukjanova, 1992 Celyphoma 45
 fuscovenosum Fieber, 1877 Iberanum 33, 34

G

gaziantepica Dlabola, 1985 Kervillea 59
 gloreosa Mitjaev, 1995 Celyphoma 45
 goricus Dlabola, 1958 Mycterodus 72, **74, 76, 77**
 gracalama Remane, 1985 Issus 27
 graecicum Dlabola, 1982 Latematium 63, **66**
 Granum Gnezdilov, 2003 24, 55
 gratehigo Remane, 1985 Issus 27
 gravesteini Dlabola, 1975 Bergevinium 40
grylloides Fabricius, 1794 Agalmatium 31
 guadarramense Melichar, 1906 Tingissus 18, 35, **36**
 guilanicus Dlabola, 1981 Mycterodus 69
 gultchense Anufriev, 2004 Celyphoma 48

H

hakkaricus Dlabola, 1980 Mycterodus 77
 halophilum Lindberg, 1964 Lindbergatium 34
 hamatus Dlabola, 1971 Mycterodus 69
 hani Gnezdilov, 2002 Tshurtshurnella 93, **97**
 hannibal Gnezdilov & Wilson, 2008 Falcidius 49, **53**
 Hemisphaeriini Melichar, 1906 6, 14
 heptapotamicum Mitjaev, 1971 Scorlupaster 88
 hermonicus Dlabola, 1994 Libanissus 68, **71**
 hesperidicus Gnezdilov & Wilson, 2005 Semissus 89, **91**
heydenii Kirschbaum, 1868 Falcidius 49
 hezarmeshedi Dlabola, 1980 Mycterodus 69
 hidipus Remane, 1985 Issus 27
 hioles Gnezdilov & Drosopoulos, 2005 Mycterodus 75
 horvathi Soós, 1976 Conosimus 48
 horvathi Dlabola, 1977 Mycterodus 69
 hyadicus Gnezdilov & Wilson, 2005 Semissus 89, **94**
 hyrcanus Logvinenko, 1974 Mycterodus 69
Hysterella Logvinenko, 1977 58
Hysterodus Dlabola, 1980 83
 Hysteropterina Melichar, 1906 6, 23, 35, 49
 Hysteropterum Amyot & Serville, 1843 24, 55

I

Iberanum Gnezdilov, 2003 23, 34
 idomeus Dlabola, 1985 Mycterodus 20, 75
ignavum Dlabola, 1981 Anatolodus 35
 ikarus Gnezdilov & Drosopoulos, 2005 Mycterodus 75
 immaculatus Fabricius, 1794 Mycterodus 69
immaculatus Herrich-Schäffer, 1836 Hysteropterum 55
 impressum Fieber, 1877 Fieberium 17, 54, **56**
 inassuetus Dlabola, 1981 Mycterodus 73
inconspicuum Matsumura, 1910 Agalmatium 31
 inermipes Bergevin, 1917 Sfaxia 92, **95**
 Inflatodus Dlabola, 1982 25, 55

insulanus Dlabola, 1982 Rhissiolepus 88
 intricatus Stål, 1861 Mycterodus 73
 ionus Gnezdilov & Drosopoulos, 2005 Mycterodus 75
Irakopterum Dlabola, 1985 63
 iranica Gnezdilov & Mozaffarian, 2011 Eusarima 37, 49
 Iranodus Dlabola, 1980 25, 58
 Issidae Spinola, 1839 5, 6, 7, 10, 11, 14, 26
issifrons Bergevin, 1918 Latilica 62
 Issinae Spinola, 1839 26
 Issini Spinola, 1839 6, 14, 26
 Issina Spinola, 1839 6, 23, 26
 Issus Fabricius, 1803 6, 23, 26
 issykkulica Chelpakova, 1989 Celyphoma 48
 izmiticus Dlabola, 1979 Mycterodus 73

J

jahjai Dlabola, 1983 Kervillea 59
 jankovici Dlabola, 1980 Bubastia 41
 jatagana Dlabola, 1980 Bubastia 43, 44
 johannesi Gnezdilov & Drosopoulos, 2005 Mycterodus 75
 josifovi Dlabola, 1980 Bubastia 41
 juniperi Bergevin, 1915 Lethierium 63

K

kabylicus Dlabola, 1989 Issus 27
 kalkandelenica Dlabola, 1982 Tshurtshurnella 93
 kandavanicus Dlabola, 1980 Mycterodus 73
 karabachicus Logvinenko, 1975 Anatolodus 35
 karakunusum Mitjaev, 1971 Scrolupaster 88
 karatavica Mitjaev, 1995 Celyphoma 48
 karatepica Dlabola, 1961 Celyphoma 48
 Kathleenum Gnezdilov, 2004 14
 kelkitica Kartal & Karavin, 2010 Bubastia 41
 Kervillea Bergevin, 1918 6, 25, 49, 58
 khatunus Dlabola, 1981 Iranodus 58
 kirgisorum Kusnezov, 1930 Kervillea 59, 64
 kobachidzei Dlabola, 1958 Mycterodus 77
 konstanto Gnezdilov & Drosopoulos, 2006 Tshurtshurnella 93
 Kovacsiana Synave, 1956 6, 24, 62
 krameri Dlabola, 1974 Mycterodus 68, 73
 kulaica Dlabola, 1982 Kervillea 59
kulikiana Logvinenko, 1977 Anatolodus 35
 kyaxares Dlabola, 1982 Inflatodus 55, 60

L

lanceatus Dlabola, 1997 Mycterodus 77
 laminatum Horváth, 1911 Libanissum 68
 lapacki Dlabola, 1985 Mycterodus 73

lassa Dlabola, 1981 Quadriva 83
 Latematium Dlabola, 1979 24, 63
 latifrons Fieber, 1877 Latematium 21, 63, 67
 Latilica Emeljanov, 1971 24, 62
 Latissus Dlabola, 1974 23, 30
 lauri Ahrens, 1814 Issus 27, 28, 29
 lesbicus Dlabola, 1981 Mycterodus 72, 78
 Lethierium Dlabola, 1980 14, 23, 63, 99
leucodictyon Bergevin, 1917 Fieberium 54
 libanensis Gnezdilov, 2004 Latilica 62
 Libanissum Dlabola, 1980 25, 63
libanotica Dlabola, 1987 Bubastia 41
liliimaculata O. Costa, 1834 Agalmatium 31
 limbatus A. Costa, 1864 Falcidius 19, 54
 Lindbergatium Dlabola, 1984 23, 34
 linskogi Dlabola, 1985 Bubastia 41
 linnavuorii Dlabola, 1985 Tshurtshurnella 93
 litus Gnezdilov, Guglielmino & D'Urso, 2003 Numidius 17, 79, 80
 lividum Bergevin, 1923 Bergevinium 40
 lobatus Logvinenko, 1968 Mycterodus 20, 78
 lodosi Dlabola, 1979 Tshurtshurnella 98
 lodosica Dlabola, 1980 Kervillea 59
 lodosicus Dlabola, 1980 Mycterodus 73
Logvinenkoana Gnezdilov, 2002 35
 loginovae loginovae Anufriev, 2004 48
 loginovae karakolica Anufriev, 2004 48
 longispinosa Linnavuori, 1962 Tshurtshurnella 98
longivertex Gruev, 1970 Mycterodus 69
 ludviki Dlabola, 1979 Bubastia 41
 lukia Dlabola, 1984 Bubastia 41
luteus Fieber, 1876 Latissus 30
Lyrofrontium Dlabola, 1982 54

M

maculifrons Mulsant & Rey, 1855 Mulsantereum 67, 79
 maculipes Melichar, 1906 Latilica 62, 65
 maderensis Lindberg, 1954 Issus 28, 29, 30
 malagense Matsumura, 1910 Bergevinium 39, 40
 malfanus Dlabola, 1987 Conosimus 48
 malickyi Dlabola, 1989 Libanissum 99
 marki Gnezdilov, 2008 Mycterodus 72, 74, 76, 77
 maroccanum Lethierry, 1877 Bergevinium 40
 marocanus Bergevin, 1923 Falcidius 54
 medea Logvinenko, 1976 Scrolupella 89, 90
Megissus Linnavuori, 1965 92
 melanophleps Fieber, 1877 Tingissus 35
melanostictum Bergevin, 1917 Fieberium 54
 melichari Gnezdilov, 2004 Latilica 62

meridionalis Dlabola, 1983 Kervillea 59
mesopotamica Dlabola, 1979 Tshurtshurnella 98
midicus Logvinenko, 1975 Anatolodus 35
modesta Lukjanova, 1992 Celyphoma 48
modestula Anufriev, 2004 Celyphoma 48
montana Becker, 1865 Scrolupella 7, 89
montandonica Dlabola, 1984 Bubastia 41
Montissus Gnezdilov, 2003 68, 78
moreana Dlabola, 1979 Tshurtshurnella 98
morulus Logvinenko, 1976 Mycterodus 77
Mulsantereum Gnezdilov, 2002 23, 79
muscaeformis Schrank, 1781 Issus 15, 30
musivus Dlabola, 1982 Anatolodus 35, 38
muticus Dlabola, 1986 Mycterodus 78
mutuus Logvinenko, 1968 Mycterodus 78
Mycterodus Spinola, 1839 6, 23, 68
mysica Gnezdilov, 2002 Tshurtshurnella 17, 98

N

nasuta Melichar, 1902 Phasmena 82
nasutus Herrich-Schäffer, 1834 Mycterodus 68, 69
Nepalius Dlabola, 1997 49
nervosa Fieber, 1877 Kervillea 59
nevadensis Linnavuori, 1957 Palmallorcus 79
nigridorsale Matsumura, 1910 Fieberium 54, 56
nigrodorsalis Sidorski, 1938 Phasmena 82
nigrimontana Emeljanov, 1978 Celyphoma 48
nigrosuturale aaiunense Lindberg, 1965 Lindbergatium 34
nigrosuturale nigrosuturale Lindberg, 1964 Lindbergatium 34
nishabur Dlabola, 1982 Iranodus 58
Nogodinidae Melichar, 1898 6
normandi Bergevin, 1920 Fieberium 54
noualhieri Puton, 1898 Conosimus 48
novaki Dlabola, 1959 Issus 27
novaki Wagner, 1962 Mulsantereum 67, 79
novalis Logvinenko, 1975 Bubastia 41
nuchensis Logvinenko, 1968 Mycterodus 77
Numidius Gnezdilov, Guglielmino & D'Urso, 2003 24, 79
nuragicum Gnezdilov & Mazzoni, 2003 Iberanum 34

O

obnoxia Mitjaev, 1995 Celyphoma 48
obsoleta Fieber, 1877 Bubastia 41
ochaninei Puton, 1890 Quadriua 83
ochreicolor Dlabola, 1983 Webbisanus 99, 100
oculatum Linnavuori, 1965 Mulsantereum 79
oertzeni Matsumura, 1910 Latilica 62

ogusica Chelpakova, 1989 Celyphoma 48
okalii Dlabola, 1983 Scrolupella 89
olympica Dlabola, 1982 Bubastia 44
oranense Matsumura, 1910 Fieberium 54
orientale Kusnezov, 1926 Agalmatium 31
Oronoqua Fennah, 1947 14
orthocephalus Ferrari, 1885 Mycterodus 73
osellai Dlabola, 1977 Mycterodus 73
osmanicus Dlabola, 1971 Mycterodus 73
ovifrons Puton, 1890 Mycterodus 72, 74, 76, 78

P

padipus Remane, 1985 Issus 30
paladitus Remane, 1985 Issus 30
Palaeolithium Gnezdilov, 2003 24, 79
palama Remane, 1985 Issus 30
pallens Stål, 1861 Mycterodus 72, 74, 75, 76
pallidellum Matsumura, 1910 Fieberium 54
pallipes Lucas, 1853 Issus 30
Palmallorcus Gnezdilov, 2003 24, 79, 99
pallidum Melichar, 1906 Hysteropterum 99
paludum altivagum Linnavuori, 1965 Fieberium 55
paludum paludum Bergevin, 1918 Fieberium 54
Pamphylium Gnezdilov & Wilson, 2007 24, 82
Parahiraciini Cheng & Yang, 1991 6, 14
parvissimum Dlabola, 1957 Kervillea 58
parvus Logvinenko, 1977 Inflatodus 22, 58
patruelis Stål, 1861 Issus 30
peloponica Dlabola, 1979 Tshurtshurnella 96, 98
penelopae Dlabola, 1974 Zopherisca 99
Pentissus Dlabola, 1980 24, 82
persicus Dlabola, 1981 Inflatodus 58, 60
peterseni Dlabola, 1980 Mycterodus 73
petrica Dlabola, 1985 Latilica 62
phaeophleps Fieber, 1877 Palmallorcus 82
Phasmena Melichar, 1902 25, 82
phoenicicus Gnezdilov, 2008 Mycterodus 72, 74, 78
piceovenosum Puton, 1887 Agalmatium 31
piceus Puton, 1884 Pseudohemisphaerius 7, 83, 86
pictifrons Melichar, 1906 Anatolodus 17, 22, 35, 38
placophora Horváth, 1905 Kervillea 59
Planocostium Dlabola, 1982 92
pliadicus Gnezdilov & Wilson, 2005 Semissus 89, 91
pontica Dlabola, 1982 Scrolupella 89
pooti Dlabola, 1989 Granum 20, 51, 55
pospisili Dlabola, 1958 Issus 30
pozanticus Kartal, 1983 Mycterodus 78
producta Linnavuori, 1965 Sfaxia 92, 95
proxima Dlabola, 1980 Quadriua 83

pseudarmatum Linnavuori, 1965 Tshurtshurnella 98
Pseudohemisphaerius Melichar, 1906 14, 23, 83
pulchella Ivanoff, 1885 *Scorlupella* 89
punctulatus Rambur, 1840 *Palmallorcus* 81, 82
punctulifrons Lindberg, 1964 *Lindbergatium* 22, 34
pygmaeum Vilbaste, 1961 *Kervillea* 59
pythia Dlabola, 1979 Tshurtshurnella 98

Q

quadracuta Dlabola, 1980 *Bubastia* 44
Quadrastylum Dlabola, 1979 58
quadriguttatus Walker, 1851 *Issus* 27
quadrispinatus Dlabola, 1980 *Cavatorium* 45, 47
Quadriva Ghauri, 1965 25, 83
quercus Lindberg, 1948 *Latilica* 62

R

ramosa Dlabola, 1982 Tshurtshurnella 98
rarus Lindberg, 1954 *Issus* 30
reiberi Lethierry, 1878 *Lethierium* 19, 63, 70
repandus Dlabola, 1981 *Iranodus* 58
retamae Linnavuori, 1962 *Latilica* 62, 65
reticulatum Herrich-Schäffer, 1835 *Hysteropterum* 18, 55, 57
Rhissolepus Emeljanov, 1971 25, 88
rhombica Dlabola, 1982 Tshurtshurnella 98
rhynchophysus Logvinenko, 1967 *Mycterodus* 73
rostratulus Emeljanov, 1964 *Mycterodus* 73
royeri Bergevin, 1921 *Fieberium* 55

S

sabzevarana Dlabola, 1980 *Quadriva* 83
sakisi Dlabola, 1984 *Bubastia* 3, 8, 44
s-album Linnavuori, 1965 *Lindbergatium* 34
sarbaz Dlabola, 1980 *Cavatorium* 45
sarmaticus Logvinenko, 1967 *Mycterodus* 73
saskia Dlabola, 1984 *Bubastia* 44
skaloula Gnezdilov & Drosopoulos, 2006 *Zopherisca* 99
schaefferi Metcalf, 1958 *Hysteropterum* 55
scipionis Gnezdilov & Wilson, 2008 *Falcidius* 52, 54
scoleogramma Fieber, 1877 *Kervillea* 59
Scorlupaster Emeljanov, 1971 24, 88
Scorlupella Emeljanov, 1971 24, 88
Semirodus Dlabola, 1987 68, 75
semissoides Bergevin, 1922 *Semissus* 19, 89, 91
Semissus Melichar, 1906 25, 89
serapae Kartal, 1985 Tshurtshurnella 98
serbicus Dlabola, 1980 *Mycterodus* 73
severini Caldwell & De Long, 1948 *Agalmatium* 31

sexpunctatus Dlabola, 1980 *Mycterodus* 75
Sfaxia Bergevin, 1917 23, 92
shahrudicus Dlabola, 1980 *Mycterodus* 75
sidorskii Logvinenko, 1974 *Mycterodus* 77
signatipes Melichar, 1906 *Sfaxia* 92
smymensis Spinola, 1839 *Agalmatium* 31
sousense Lindberg, 1964 *Lindbergatium* 34
spartica Dlabola, 1982 *Bubastia* 44
Sphenidius Soós, 1976 48
spinicordatus Dlabola, 1983 *Mycterodus* 78
spiraeae Mitjaev, 1967 *Phasmena* 82, 85
straminum Bergevin, 1915 *Palaeolithium* 79
striolata Fieber, 1877 Tshurtshurnella 98
Stygiata Emeljanov, 1972 82
subangulare Rey, 1891 *Hysteropterum* 99
suturalis Fieber, 1877 *Bubastia* 44
syriaca Melichar, 1906 *Kervillea* 62
syriacus Gnezdilov, 2008 *Mycterodus* 78

T

taftanica Dlabola, 1980 *Quadriva* 83
talhouki Dlabola, 1974 *Libanissus* 68, 71
talyshensis Logvinenko, 1974 *Mycterodus* 75
tangesarhena Dlabola, 1980 *Quadriva* 83
tangirum Matsumura, 1910 *Tingissus* 35
tardiviva Emeljanov, 1978 *Phasmena* 83
tarsusana Dlabola, 1989 *Kervillea* 62
taurica Kusnezov, 1926 *Bubastia* 43, 44
taurus Oshanin, 1870 *Bootheca* 40, 42
Tautoprosopa Emeljanov, 1978 24, 92
tekirdagicus Dlabola, 1982 *Corymbius* 22, 49, 51
tekneticus Dlabola, 1982 *Mycterodus* 72
telifera Melichar, 1902 *Phasmena* 82, 83
tendinosa Spinola, 1839 *Zopherisca* 99, 100
thaidis Dlabola, 1987 *Bubastia* 44
Theryana Bergevin, 1922 89
theryi Bergevin, 1925 *Bergevinium* 40
thessalica Dlabola, 1980 *Bubastia* 44
Thioniini Melichar, 1906 6
Tingissus Gnezdilov, 2003 23, 35
tkalcui Dlabola, 1980 *Hysteropterum* 55
tlemsenicus Dlabola, 1987 *Semissus* 89
Tonginae Kirkaldy, 1907 6
torosicus Dlabola, 1980 *Mycterodus* 78
transcaspia Emeljanov, 1978 *Tautoprosopa* 90, 92
transcaucasicus Melichar, 1914 *Anatolodus* 35
transversalis Dlabola, 1980 *Iranodus* 58
trapezoidale Bergevin, 1917 *Bergevinium* 40
Trienopinae Fennah, 1954 6

trifasciata Linnavuori, 1965 Tshurtshurnella **96, 98**
 trispinatum Dlabola, 1985 Libanissum 20, 68
 Tropiciduchidae Stål, 1866 6
truncatus Fieber, 1876 Issus 27, 30
 Tshurtshurnella Kusnezov, 1927 6, 25, 92
tshurtshurnum Linnavuori, 1957 Scorlupaster 88
 tubulatus Dlabola, 1989 Rhissolepus 88
 tunetana Matsumura, 1910 Latilica 62
 tunicata Logvinenko, 1974 Quadriva 83

U

ulukislanus Dlabola, 1985 Mycterodus 77
 umnovi Kusnezov, 1929 Brachyprosopa 40, **42**
 uvarovi Gnezdilov, 2002 Tshurtshurnella **21, 98**

V

vasconicum Gnezdilov, 2003 Hysteropterum 55
 vegrandis Gnezdilov & Wilson, 2011 Caepovultus 44
 ventricornis Dlabola, 1986 Tshurtshurnella 98

verbasci Dlabola, 1983 Tshurtshurnella 98
Verticisium Dlabola, 1979 92
 violantis Ferrari, 1884 Conosimus 48
 viridans Dlabola, 1974 Inflatodus 58, **60**
viridatum Dlabola, 1971 Inflatodus 58
 vittifrons Ivanoff, 1885 Alloscelis 35, **37**

W

Webbisanus Dlabola, 1983 99
 wittmeri Dlabola, 1974 Mycterodus 75

Y

yoosgatica Kartal, 1985 Tshurtshurnella 98

Z

zebrina Dlabola, 1987 Tshurtshurnella 98
 zelleri Kirschbaum, 1868 Tshurtshurnella 98
 Zopherisca Emeljanov, 2001 24, 99

CONTENTS

Introduction	6
Material and Methods	7
Acknowledgements	8
Who has Described the Issid Species?	10
Bergevin, Ernest de	10
Dlabola, Jirí	10
Emeljanov, Alexandr Fedorovich	10
Fieber, Franz Xavier	10
Lindberg, Håkan	11
Linnavuori, Rauno	11
Logvinenko, Valentina Nikolaevna	11
Melichar, Leopold	11
Mitjaev, Ivan Dmitrievich	11
Remane, Reinhard	11
Morphology of the Family Issidae	14
Terminology	14
General Characters of the Family	14
Key to Western Palaearctic Issid Genera	23
Checklist of Western Palaearctic Issidae with Key to Subgenera	26
Family Issidae Spinola	26
Subfamily Issinae Spinola	26
Tribe Issini Spinola	26
Subtribe Issina Spinola	26
<i>Issus</i> Fabricius	26
<i>Latissus</i> Dlabola	30
Subtribe Agalmatiina Gnezdilov	31
<i>Agalmatium</i> Emeljanov	31
<i>Clybeccus</i> Gnezdilov	31
<i>Iberanum</i> Gnezdilov	34
<i>Lindbergatium</i> Dlabola	34
<i>Tingissus</i> Gnezdilov	35
Subtribe Hysteropterina Melichar	35
<i>Alloscelis</i> Kusnezov	35
<i>Anatolodus</i> Dlabola	35
<i>Anatonga</i> Emeljanov	35
<i>Bergevinium</i> Gnezdilov	40
<i>Bootheca</i> Emeljanov	40
<i>Brachyprosopa</i> Kusnezov	40
<i>Bubastia</i> Emeljanov	40
<i>Caepovultus</i> Gnezdilov & Wilson	44
<i>Cavatorium</i> Dlabola	44
<i>Celyphoma</i> Emeljanov	45
<i>Conosimus</i> Mulsant & Rey	48
<i>Corymbius</i> Gnezdilov	49
<i>Eusarima</i> Yang	49
<i>Falcidius</i> Stål	49

<i>Fieberium</i> Dlabola	54
<i>Granum</i> Gnezdilov	55
<i>Hysteropterum</i> Amyot & Serville	55
<i>Inflatodus</i> Dlabola	55
<i>Iranodus</i> Dlabola	58
<i>Kervillea</i> Bergevin	58
<i>Kovacsiana</i> Synave	62
<i>Latilica</i> Emeljanov	62
<i>Latematium</i> Dlabola	63
<i>Lethierium</i> Dlabola	63
<i>Libanissum</i> Dlabola	63
<i>Mycterodus</i> Spinola	68
<i>Mulsantereum</i> Gnezdilov	79
<i>Numidius</i> Gnezdilov, Guglielmino & D'Urso	79
<i>Palaeolithium</i> Gnezdilov	79
<i>Palmallorcus</i> Gnezdilov	79
<i>Pamphylium</i> Gnezdilov & Wilson	82
<i>Pentissus</i> Dlabola	82
<i>Phasmena</i> Melichar	82
<i>Pseudohemisphaerius</i> Melichar	83
<i>Quadriova</i> Ghauri	83
<i>Rhissolepus</i> Emeljanov	88
<i>Scorlupaster</i> Emeljanov	88
<i>Scorlupella</i> Emeljanov	88
<i>Semissus</i> Melichar	89
<i>Sfaxia</i> Bergevin	92
<i>Tautoprosopa</i> Emeljanov	92
<i>Tshurtshurnella</i> Kusnezov	92
<i>Webbisanus</i> Dlabola	99
<i>Zopherisca</i> Emeljanov	99
Species of Uncertain Position	99
References	101
Literature on Distribution, not Cited in the Text	110
Index to Genera, Species, and Higher Groups	112

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