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Taxonomy and distribution of pimpline parasitoids (Hymenoptera, Ichneumonidae, Pimplinae) in Ukraine

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Abstract

Data on the ichneumonid parasitoid wasps of the subfamily Pimplinae from Ukraine are summarized. The fauna of the Ukrainian pimplines numbers 35 genera and 146 species equivalent to almost 63% of European fauna. Twenty-four species are recorded from Ukraine for the first time. *Pimpla femorella* Kasparyan, 1974 is a first record for Western Palaearctic. The highest species richness (91–94 spp.) occurs in Ivano-Frankivsk and Transcarpathian Regions situated mostly in the Carpathian Mountains basin. The Carpathian Montane Forests were found to be the most species rich (112 species) of the six ecoregions present in Ukraine. The flight period of Pimplinae-wasps in Ukraine lasts nine months with a maximum number of species collected in June and genera in July respectively.

Key words: Hymenoptera, Ichneumonoidea, Europe, inventory, survey, checklist, new records

Introduction

The Pimplinae is a moderately large subfamily of Ichneumonidae with approximately 1700 species classified in about 80 genera (Yu *et al.*, 2012; Matsumoto, 2016; Varga, 2018c).

The modern systematics and phylogenetic relationships of the group is based mainly on several published works by Townes (1969), Wahl & Gauld (1998) and Gauld *et al.* (2002). The last update of the higher-level classification were published by Klopstein and co-authors (2018) grouping the subfamily Pimplinae into four tribes, Delomeristini Hellén, 1915, Ephialtini Hellén, 1915, Pimplini Wesmael, 1845, and Theroniini Cushman & Rohwer, 1920.

The subfamily Pimplinae shows a great variety of host ranges, containing idiobionts and koinobionts, which may develop as ectoparasites or endoparasites, solitarily or gregariously, with even phytophagy is believed to occur in some taxa. Generally, pimplines attack immature stages of insects from several orders, Coleoptera, Diptera, Lepidoptera, Hymenoptera, plus spiders and spider egg sacs (Gauld *et al.*, 2002).

The pimplines are probably one of the best studied ichneumonid groups in Western Palaearctic (e.g. Aubert, 1969). The European fauna comprising 39 genera and about 230 species (Yu *et al.*, 2012; Varga, 2012; Fritzen & Fjellberg, 2014; Fritzen, 2014; Matsumoto, 2016). Nevertheless, the available list contains numerous questionable species with unclear or even unknown taxonomic status, e.g. *Ephialtes brischkei* Dalla Torre, 1901, several *Pimpla* and *Polysphincta* species, most of the species described by R. Constantineanu and C. Pisica, so it can be assumed that the actual number of species does not exceed 210–220 spp. (Varga, 2015, 2017ab, 2018ab). In contrast to the bordering well-studied Hungary, Poland, Romania and Russia (Yu *et al.*, 2012), the Ukrainian ichneumonid fauna remain largely unstudied. Several widespread and common pimplines were firstly documented from Volyn Region by Besser almost two hundreds years ago (Besser, 1835). Meyer (1934) increased the number of the Ukrainian Pimplinae to 25–30 species. The main ichneumonid collections were deposited in Russian museums. Unfortunately, Meyer's collection was lost during the Second World War and now none of these records can be considered valid as there are no voucher specimens available. The same is true for records of Besser (1835) because of the placement and condition of his collection is unknown. Many species from Meyer's list were confirmed as distributed in Ukraine by later works of Kasparyan and Khalaim (Kasparyan, 1981; Kasparyan and Khalaim, 2007). The records of about seventy Pimplinae species were based on specimens collected mostly from the South-Eastern part of Ukraine ("South" and "South-West" of the European part of the former USSR in Kasparyan (1981)). These works did not contain any specific information and only in some cases the authors provided a locality name, e.g. Kharkiv. The Ukrainian part of the Carpathian basin was fully unstudied until 2009 after the intensive investigation of the region was started by the author. As a result, dozens of new records have been published recently increasing the number of the Ukrainian pimplines up to ca. 120 species (Varga, 2012, 2014b, 2015, 2017ab, 2018ab).

Material and methods

The present study is based on ca. 7400 specimens collected by different entomologists between 1952 and 2018. The specimens were collected using sweeping net (Ukraine), Malaise and Trunk Traps (Carpathians), and Yellow Pan Traps (Carpathians and Crimea). In total, the material from 335 sampling sites in almost all administrative Regions of Ukraine except Sumy is presented in the study (Fig. 1). It covers all six ecoregions (after Olson *et al.*, 2001): 1) CMF—Carpathian Montane Forests, 2) CEMF—Central European Mixed Forests, 3) CSF—Crimean Submediterranean Forest, 4) EEFS—East European Forest Steppe, 5) PS—Pontic Steppe, 6) PMF—Pannonian Mixed Forests.

Abbreviations and depositories:

Reg.—Region, Distr.—District

NR—Nature Reserve, BR—Biosphere Reserve

SN—Sweeping net, MT—Malaise Trap, YPT—Yellow Pan Trap, TT—Trunk Trap

MNHN—Museum National d'Histoire Naturelle, Paris (Agnière Touret-Alby)

BMNH—Natural History Museum, London (Gavin Broad)

ZMHB—Museum für Naturkunde, Berlin (Frank Koch)
 HNHM—Hungarian Natural History Museum, Budapest (Zoltán Vas)
 ZSSM—Bavarian State Collection of Zoology, Munich (Stefan Schmidt)
 SIZK—I. I. Schmalhausen Institute of Zoology, NAS of Ukraine, Kyiv
 UAIC—Alexandru Ioan Cuza University of Iasi (Ovidiu Popovici)
 MNHHWU—Museum of Natural History of Wroclaw University (Marek Wanat)
 BY—University of Białystok, Białystok (Agata Kostro-Ambroziak)
 CMZL—Cantonal Museum of Zoology, Lausanne (Anne Freitag)
 ZIN—Zoological Institute, RAS, St. Petersburg (D. Kasparyan)
 SDEI—Senckenberg Deutsches Entomologisches Institute, Müncheberg (Andreas Taeger)

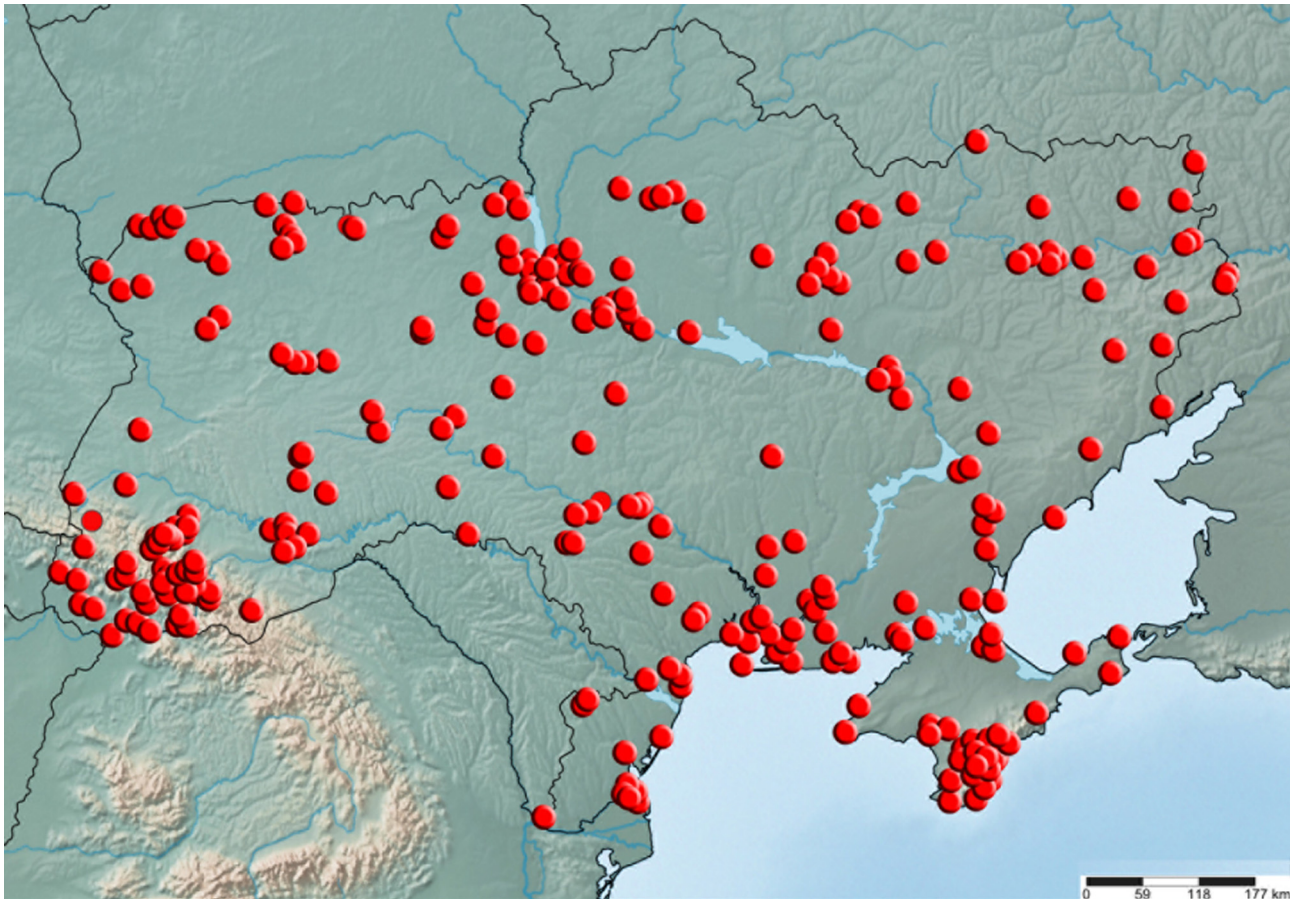


FIGURE 1. Sampling sites across Ukraine.

Specimens were identified using several keys (Kasparyan, 1973, 1974, 1981; Kasparyan & Khalaim, 2007; Fitton *et al.*, 1988; Zwakhals, 2006, 2010; Gauld & Dubois, 2006; Horstmann, 2008, 2010). Specimens were compared with type and non-type material deposited in MNHN, ZMHB, HNHM, ZSSM, UAIC, MNHHWU, BY, CMZL, ZIN, SDEI, and personal collection of K. Horstmann (ZSSM) and C. Pisica (UAIC). Numerous species were sent to Gavin Broad (BMNH) for confirmation of identification. The voucher specimens from this study are mainly deposited at SIZK. Each species contains several pinned specimens placed in the main collection boxes. The rest of the specimens (about 60% of material) are stored in 96% ethanol or on cotton (so-called ‘mattress’). The images of specimens were taken with a Leica 205A stereomicroscope with a DFC 500 camera, combined with Zerene (UAIC), a Leica DMRBE microscope with Nikon V1 camera, combined with CombineZM software (ZSSM), a Leica Z16 APO microscope equipped with Leica DFC 450 camera and processed by LAS Core software (SIZK). ‘Review of species records’ section contains a checklist of all species recorded from Ukraine. Each species account contains a scientific name and data arranged into several sections: ‘Records’, ‘Material examined’, ‘Distribution’, ‘Biology’, and ‘Notes’ (if needed). ‘Records’ section holds literature data on Region or higher level occurrence of species in chronological order. [First record] indicates the first documented find in Ukraine. ‘Material examined’ section con-

tains sample level primary distribution data from the labels. Label string: [Region:] [number of females and males] [locality], [coordinates, altitude], [habitat], [collecting method], [date], [collector name]. ‘Distribution’ contains information on the general distribution of the species provided by Yu *et al.* (2012) and summarized data on the Region-level distribution in Ukraine. ‘Biology’ section holds information on ecoregion distribution and on seasons of adult occurrence (month level). ‘Note’ section comprises other optional information that does not fit in previous mandatory sections. The literature data on the hosts of pimelines contain numerous incorrect records which should be critically revised, and which prevents any analysis of trophic interactions.

Results and discussion

The ichneumonid fauna of the subfamily Pimplinae of Ukraine contains 144 species belonging to 35 genera (Fig. 2), with 63% of the described European pimpline species distributed in the country. A total of 24 species are recorded in Ukraine for the first time. Most of the new records belonging to Ephialtini genera, *Dolichomitus* Smith, 1877, *Endromopoda* Hellén, 1939, *Ephialtes* Gravenhorst, 1829, *Flavopimpla* Betrem, 1932, *Liotryphon* Ashmead, 1900, *Polysphincta* Gravenhorst, 1829, *Scambus* Hartig, 1838, *Schizopyga* Gravenhorst, 1829, *Townesia* Ozols, 1962, and *Tromatobia* Förster, 1869. The proportions of the tribes are generally similar to those in Europe. Each tribe contains a little less than half of the European species and only tribe Ephialtini are comparatively more species-rich comprising 101 species in Ukraine in contrast to 158 European species.

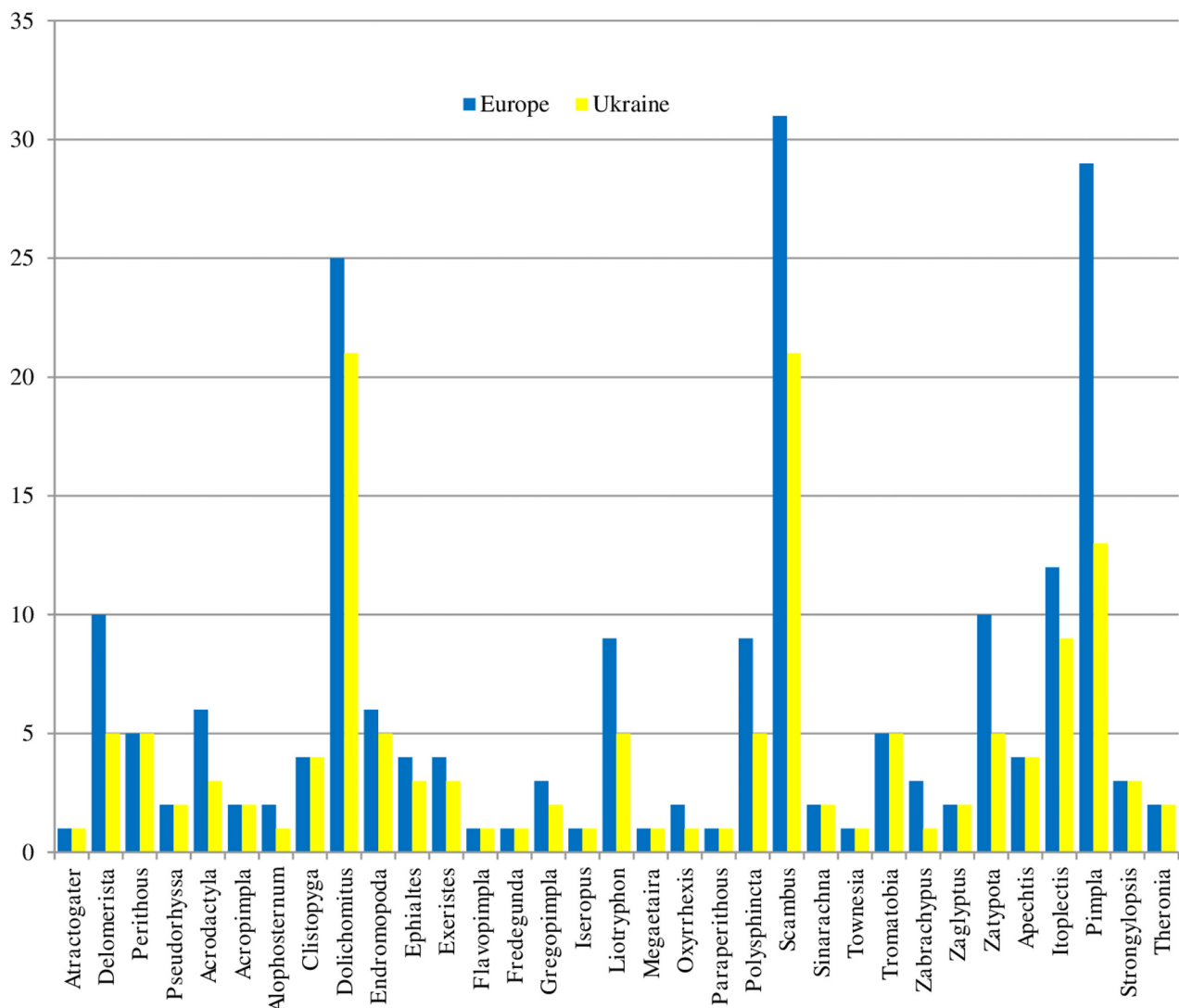


FIGURE 2. Number of the Ukrainian species recorded comparing to described pimelines in Europe (after Yu *et al.*, 2012; Varga, 2012, 2017a, 2018a).

The small tribe Delomeristini (9%) is represented by all four European genera in Ukraine. All the European species of the genera *Atractogaster* Kriechbaumer, 1872, *Perithous* Holmgren, 1859 and *Pseudorhyssa* Merrill, 1915 were found in Ukraine (for status of the Romanian *Perithous* species see: Varga, 2018a). Only the genus *Delomerista* Förster, 1869 is represented by only a half of the known European species. Ephialtines are the most species-rich tribe (70%) of the subfamily in Europe. The Ukrainian fauna of the tribe is more-or-less uniformly represented, except the genera *Piogaster* Perkins, 1958, *Pseudopimpla* Habermehl, 1917 and *Reclinervellus* He & Ye, 1998, which are still unrecorded for the country. The tribe Pimplini (19.5%) containing the most common and widespread European species are well-represented in Ukraine. All the species from genera *Apechthis* Förster, 1869 and *Strongylopsis* Brauns, 1896 are reported from Ukraine by the different authors (Kasparyan, 1981; Varga, 2017b). The genus *Itoplectis* Förster, 1869 is represented by almost all European species except *I. melanocera* Förster, 1888 and *I. quadricingulata* (Provancher, 1880), from which at least the first one has a questionable taxonomic status. Thirteen species of the genus *Pimpla* Fabricius, 1804 are reported from Ukraine comprising almost a half of the European species. Nevertheless, most of the unrecorded species belong to those with South European distribution or unknown taxonomic status. The recently resurrected (Klopstein *et al.*, 2018) tribe Theroniini is represented by mostly tropical species, of which only *Theronia* Holmgren, 1859 and *Xanthopimpla* Saussure, 1892 are reported from Europe (Yu *et al.*, 2012). The Ukrainian fauna of the tribe numbers only both European *Theronia* species.

Summarized data show the highest species richness in Ivano-Frankivsk, Kyiv and Transcarpathian Regions, the regional faunas of which count between 67–94 species. Lowest species richness was detected in Chernivtsi, Kropyvnytskyi and Lviv Regions, their regional faunas numbering only 2–3 species. No specimens were examined from Suny Region (Fig. 3). The regional Pimplinae distribution is largely uneven probably because of the small amount of samples in some parts of Ukraine and thus, the most intensively studied areas demonstrate the highest species richness.

The Ukrainian Pimplinae species are distributed in all six ecoregions (Fig. 4), with the highest number found in Carpathian Montane Forests (112 species). Some *Acrodactyla* Haliday, 1838, all *Delomerista* species, except *D. mandibularis* (Gravenhorst, 1829), several *Dolichomitus* species, *Itoplectis curticauda* (Kriechbaumer, 1887), *Liotryphon strobilellae* (Linnaeus, 1758), *Megaetaira madida* (Haliday, 1838), *Perithous speculator* Haupt, 1954, *Pimpla arctica* Zetterstedt, 1838 and *P. murinanae* Fahringer, 1943, *Polysphincta longa* Kasparyan, 1976, *Sinarchna nigricornis* (Holmgren, 1860), and *Zatypota anomala* (Holmgren, 1860) are reported only from this ecoregion. Central European Mixed Forests ecoregion includes 76 species. *Clistopyga canadensis* Provancher, 1880, *Flavopimpla cicatricosa* (Ratzeburg, 1848), *Pimpla femorella* Kasparyan, 1974, *Polysphincta vexator* Fitton, Shaw & Gauld, 1988, and *Scambus foliae* (Cushman, 1938) were collected only here. The species composition of this region shows the highest similarity with species from the Carpathian Montane Forests. Pontic steppe ecoregion with 67 recorded species is a typical area of distribution of the relatively rare ephialtines: *Clistopyga sziladyi* Kiss, 1959, *Endromopoda nitida* (Brauns, 1898), *Gregopimpla malacosomae* (Seyrig, 1927), and *Scambus gallicerator* Kasparyan, 1974. Sixty-two Pimplinae species occur in the East European forest-steppe and contains a mix of species also found in Pontic Steppe, Carpathian Montane and Central European Mixed Forests regions. Only one species, *Tromatobia forsiusi* (Hellen, 1915), is restricted to this region. Crimean Submediterranean Forest ecoregion includes a complex of ‘southern’ species, of which *Itoplectis clavicornis* (Thomson, 1889), *Pimpla arcadica* Kasparyan, 1973, *Scambus goniozator* Aubert, 1982, and *S. puniceus* (Schmiedeknecht, 1914) were collected only in this region. *Exeristes arundinis* (Kriechbaumer, 1887) and *Fredegunda diluta* (Ratzeburg, 1852) are typical species associated with *Phragmites*, which can be found in the Southern Ukraine in Crimea and Pontic Steppe. Pannonian Mixed Forests zone is the smallest ecoregion of Ukraine with only 27 recorded Pimplinae species. There are several unusually warm localities with Submediterranean vegetation in the area housing some Crimean species, e.g. *Liotryphon ascaniae* (Rudow, 1883). The recently described species, *Dolichomitus milleri* Zwakhals, 2010 was found only in oak forests of this ecoregion.

Several common species, *Acropimpla pictipes* (Gravenhorst, 1829), *Apechthis compunctor* (Linnaeus, 1758), *A. quadridentata* (Thomson, 1877), *A. rufata* (Gmelin, 1790), *Clistopyga incitator* (Fabricius, 1793), *Gregopimpla inquisitor* (Scopoli, 1763), *Itoplectis alternans* (Gravenhorst, 1829), *I. maculator* (Fabricius, 1775), *I. viduata* (Gravenhorst, 1829), *Pimpla contemplator* (Muller, 1776), *P. insignatoria* (Gravenhorst, 1807), *P. rufipes* (Miller, 1759), *P. spuria* Gravenhorst, 1829, *P. turionellae* (Linnaeus, 1758), *Scambus brevicornis* (Gravenhorst, 1829), *S. inanis* (Schrank, 1802), *S. nigricans* (Thomson, 1877), and *Zaglyptus varipes* (Gravenhorst, 1829), were collected in all six ecoregions.

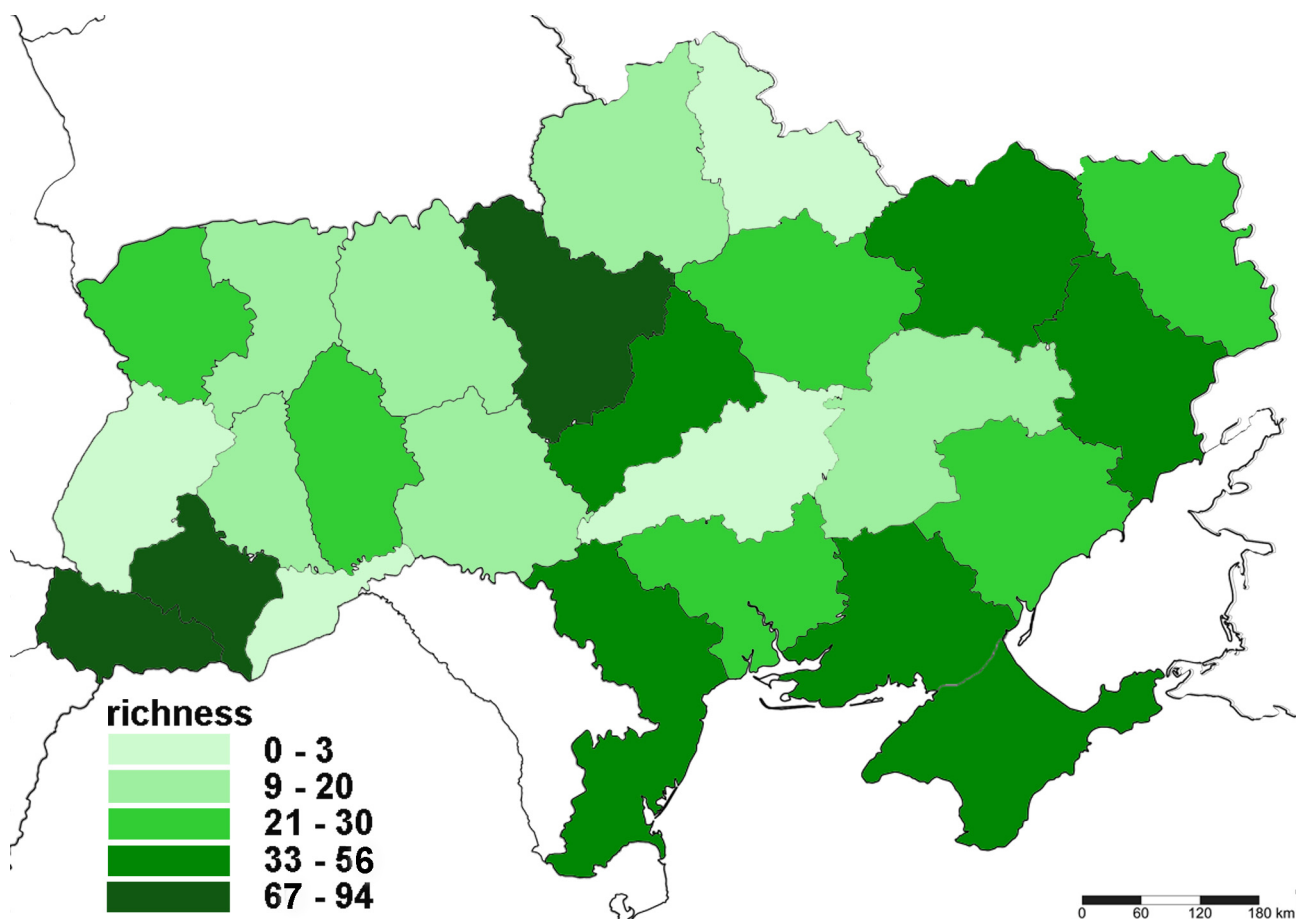


FIGURE 3. The Pimplinae species richness by Administrative Regions in Ukraine. The number of species is provided.

Seasonal abundance analysis (Fig. 5) shows maximal abundances of Pimplinae imago species in June, while the number of genera is the highest in July. The flying imago of pimplines can be collected from March till November. There is a high disproportion in time/geographical distribution of species. Some widely distributed species has a maximum of abundance in May on a flat territories, while in Carpathians these species can be collected starting from June with a maximal richness in the end of June or even in July, similarly with rhyssines (Varga, 2014a).

Taxonomic problems and questionable records

The subfamily Pimplinae is probably the best studied ichneumonid group in Europe (Yu *et al.*, 2012). Despite that fact, several genera still need to be revised. The genera *Scambus* and *Ephialtes* were the most taxonomically problematic during the preparation of this work.

The genus *Scambus* is a moderately large genus of the tribe Ephialtini comprising 31 species in Europe (Yu *et al.*, 2012), of which 21–22 morphospecies were recognized from Ukraine. Twenty morphospecies were identified to species level mostly based on female specimens. Identification of males is difficult, thus it was done only for several species with distinctive characters. The remaining male specimens were excluded from these data. The first problem is a group of species, close to *S. sagax* (Hartig, 1838). According to literature (e.g. Kasparyan, 1981) the species belonging to this group are characterized by the black upper hind corner of pronotum and all coxae, and unicolourous brown pterostigma. There are five European species in this group: *S. alpestrator* Aubert, 1966, *S. capitator* Aubert, 1965, *S. sagax* (Hartig, 1838), *S. strobilorum* (Ratzeburg, 1848), and *S. sudeticus* (Glowacki, 1967). I found, that *S. alpestrator* holotype female has centrally paler pterostigma (Fig. 9i). Thus, placing this species inside of the current species group is questionable. This species is morphologically similar to the paratype female of *S. eucosmidarum* (Perkins, 1957) and only differs by having all coxae black (fore coxa entirely and middle basally black, hind coxa red in *S. eucosmidarum*), lighter hind tibia (Fig. 9d) and darker pterostigma. These parasitoids biology can be a key

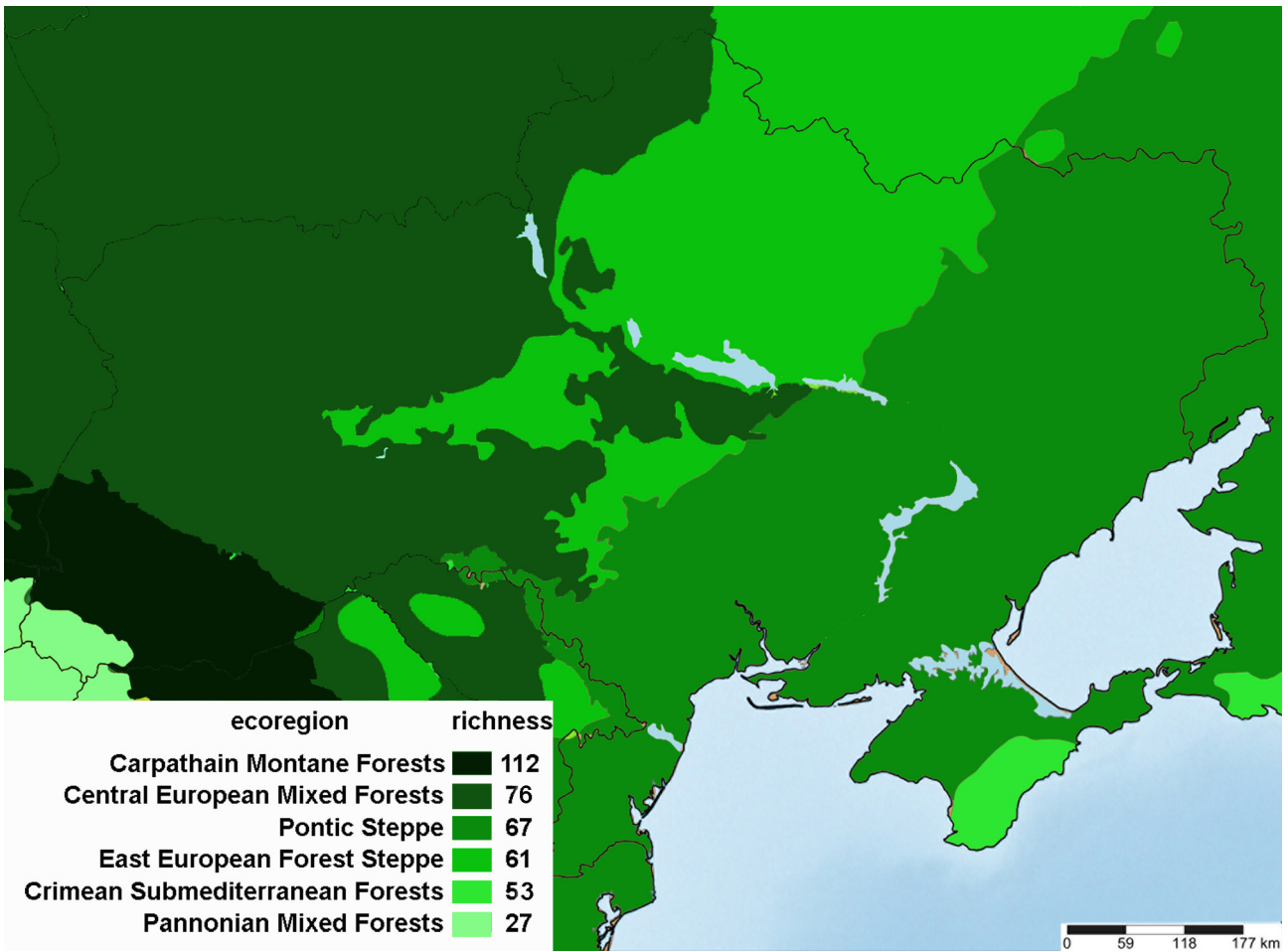


FIGURE 4. The Pimplinae species richness by ecoregions in Ukraine. The number of species is provided.

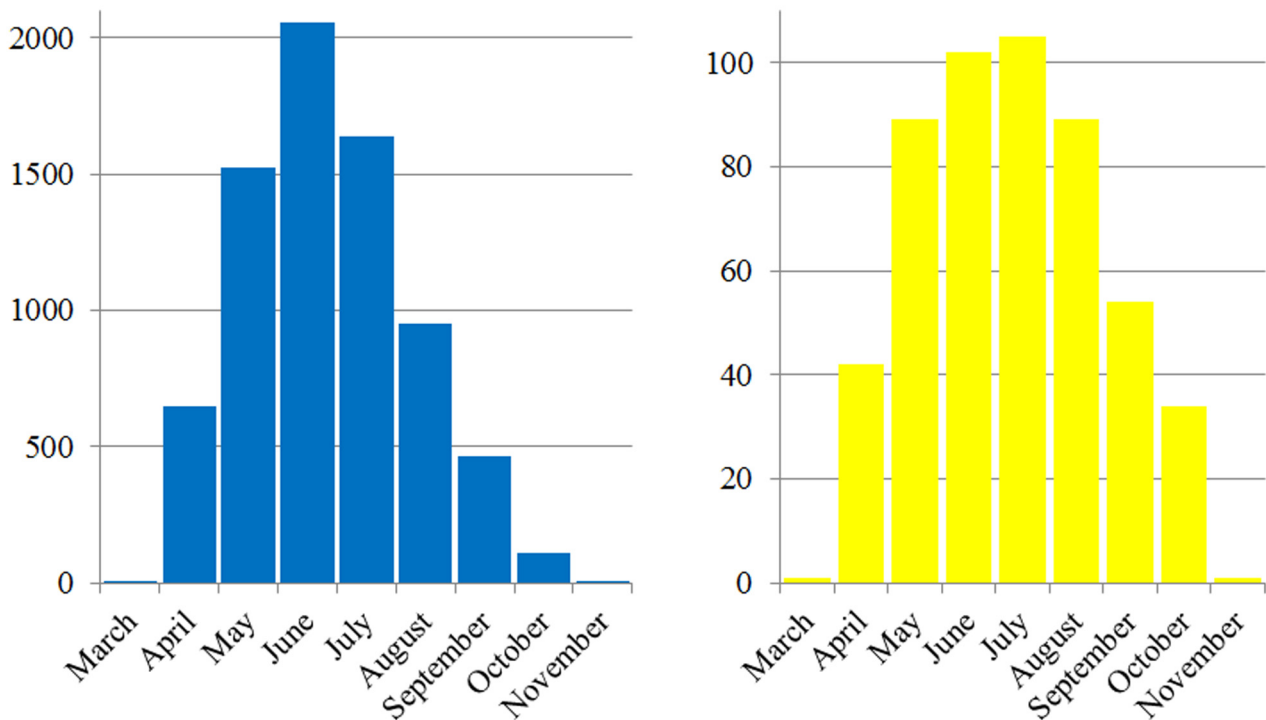


FIGURE 5. Seasonal presence of flying Pimplinae imago in Ukraine. The number of specimens (left) and genera (right) is provided.

to separate the species. *Scambus eucozmidarum* attacks lepidopterans in rolled leaves or flowerheads (Fitton *et al.*, 1988), while *S. alpestrator* is associated with lepidopterans in cones. The Carpathian species were mostly collected near conifers, flying around *Picea abies* and *Abies alba* cones. Thus, the Ukrainian species are formally placed under *S. alpestrator*. Nevertheless, this species can be treated as a junior synonym of *S. eucozmidarum*. The examined paratype female of *S. capitator* has the ovipositor tip with only basal teeth strongly inclivous (Fig. 11b), relatively long temples, brownish hind femora and whitish hind tibia with distinct subbasal and apical rings. The specimens from Carpathians are comparatively smaller, has short temples narrowed behind eyes, and hind tibia, which is indistinctly banded (Fig. 11). A similar specimen collected from Poland was found in the collection of Horstmann and was labelled by him as holotype of a future described species. Unfortunately, it is still insufficient material to clearly separate this morphospecies from *S. capitator* or show that it is only morphological variation of the latter. Thus, I decide to formally place the Carpathian specimens under *S. capitator*. As the *S. sagax* type is lost, there are only available specimens identified by previous authors. The specimens from the collection of Horstmann are similar to *S. alpestrator*, but have unicolour brown pterostigma (Fig. 9k). The hind tibia in Carpathian specimens vary from brownish to distinctly striped. All the Ukrainian specimens with relatively long ovipositor, brown pterostigma, black pronotum and hind coxa are formally placed under *S. sagax*. It is possible, that *S. sagax* is a complex of morphologically similar species or that the pterostigma varies from entirely brown to paler centrally and hind tibiae—from distinctly to indistinctly banded. It is possible that *S. alpestrator* should be synonymized with *S. sagax*, but requires molecular analysis together with numerous reliable host records. *Scambus strobilorum* differs by having the longest ovipositor (ovipositor length is about $4.8 \times$ the length of hind tibia) and brown hind femora. The specimens of *S. sudeticus* in the collection of Horstmann are similar to *S. strobilorum*, but have strongly widened temples (Fig. 9e), red hind femora and shorter ovipositor (ovipositor length is about $3.6\text{--}3.9 \times$ the length of hind tibia).

The second taxonomic problem is a *Scambus brevicornis* species-group characterizing by the pterostigma with somewhat paler margins and darker central part (Fig. 9b, f–h). Most of the species were probably treated as a polymorphism of *S. brevicornis* by many authors (e.g. Kasparyan, 1981) until Horstmann revised the species group and provided a key to six recognized species, *S. altalpinum* (Heinrich, 1952), *S. balearicus* (Kriechbaumer, 1894), *S. brevicornis*, *S. euphrantae* (Schmiedeknecht, 1914), *S. puniceus*, and *S. goniozator* (Horstmann, 2010). Unfortunately, the key is based only on the coloration of legs. The differences in coloration of pterostigma are illustrated only as black-and-white drawings and it can not be used. As an example, *S. altalpinum* and *S. euphrantae* differs only in a coloration of pterostigma. After examination of specimens identified by Horstmann I found, that both species are identical (Fig. 9f, g). The Ukrainian species placed under *S. euphrantae*.

The complex of species, close to *S. nigricans*, consists of three species: *S. cincticarpus* (Kriechbaumer, 1895), *S. nigricans* and *S. rufator* Aubert, 1964. All the species has relatively short ovipositor (ovipositor length is about $1.9 \times$ the length of hind tibia) and ovipositor with only basal two teeth inclival. *Scambus rufator* has centrally red metasoma, while the other two species are entirely black. *Scambus cincticarpus* has yellowish centrally pterostigma and somewhat banded hind tibia. *Scambus nigricans* has unbanded red hind tibia and brown pterostigma. There are several specimens collected in Carpathians similar to *S. nigricans*, but with yellow and clearly banded hind tibia. The specimens are still undetermined and were not included in this paper.

The genus *Ephialtes* is a small genus with only four species in Europe (Yu *et al.*, 2012). Horstmann revised the genus and provided a key to both sexes (Horstmann, 2008). Based on the Ukrainian species (mostly Carpathian) and specimens from personal collection of Horstmann, some characters provided in the revision by Horstmann (2008) were found to be unreliable. The males can more-or-less be identified easily based on the shape of parameres and hind tibia coloration (Horstmann, 2008), while females are very similar, except for *E. manifestator* (Linnaeus, 1758) which has the shortest ovipositor and reddish hind tibia (Fig. 7i). In general, *E. brevis* Morley, 1914 has comparatively densely punctate face, pronotum with a yellow line (as on Fig. 7e) and shorter second metasomal tergite (the length of tergite is about $1.4 \times$ the apical width) (Fig. 7c), while other two species, *E. duplicauda* Heinrich, 1949 and *E. zirnitsi* Ozols, 1962 have sparsely punctate face, pronotum with a yellow spot (Fig. 7d) and longer second metasomal tergite (the length of tergite is about $1.6 \times$ the apical width) (Fig. 7a, b). *Ephialtes duplicauda* differs from *E. zirnitsi* in having the shorter ovipositor (ovipositor length is about $9\text{--}10 \times$ the length of hind tibia compared to $11\text{--}13$ in *E. zirnitsi*) and more abundant yellow coloration of fore trochanter and trochantellus (Fig. 7h, i).

Review of species records

Tribe Delomeristini Hellén, 1915

Atractogaster Kriechbaumer, 1872

Atractogaster semisculptus Kriechbaumer, 1872

Records. Ivano-Frankivsk Region (Varga, 2018a)

Material examined. *Transcarpathian Reg.*: 3 ♀, Vynogradiv Distr., Chorna Gora, 280 m, oak forest, 48.138338 N, 23.073689 E, SN, 3.v.2018, leg. O. Varga.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF, PMF. May–June.

Delomerista Förster, 1869

Delomerista borealis Walkley, 1960

Records. Ivano-Frankivsk Region (Varga, 2018a)

Material examined. Literature data only.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. May.

Delomerista japonica Cushman, 1937

Records. Ivano-Frankivsk Region (Varga, 2018a)

Material examined. Literature data only.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. June.

Delomerista mandibularis (Gravenhorst, 1829)

Records. Kharkiv and Khmelnytskyi Regions (Kasparyan, 1977).

Material examined. *Kyiv Reg.*: 1 ♀, Kyiv, Darnytsya, SN, 27.v.1970, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Kharkiv, Khmelnytskyi and Kyiv Regs.

Biology. CMF, CEMF, EEFS. May.

Delomerista novita (Cresson, 1870)

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018a).

Material examined. Literature data only.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. April–July.

Delomerista pfankuchi Brauns, 1905

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018a).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. May–August.

Perithous Holmgren, 1859

Perithous albicinctus (Gravenhorst, 1829)

Records. Eastern Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018a).

Material examined. *Crimea*: 1 ♀, kordon Asport, SN, 1.vi.1976; *Kyiv Reg.*: 1 ♂, Kyiv, Teremky, SN, 21.vii.1981, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Crimea, Ivano-Frankivsk, Kyiv, and Transcarpathian Regs.

Biology. CMF, CEMF, CSF. June–August.

***Perithous divinator* (Rossi, 1790)**

Records. Ukraine (Kasparyan, 1981), Transcarpathian Region (Varga, 2018a).

Material examined. *Crimea*: 1 ♀, kordon Taryer, SN, 27.vi.1976; 1 ♂, kordon Asport, SN, 22.vi.1976; 1 ♀, Laspi, SN, 22.vii.1979, leg. A. Kotenko; *Donetsk Reg.*: 2 ♀, 1 ♂, Khomutovskyi Steppe, SN, 30–31.v.1983, leg. V. Tolkanitz; *Kherson Reg.*: 2 ♀, Burkuty, SN, 26.vi.1978, leg. A. Kotenko; *Kyiv Reg.*: 5 ♂, Vasylykiv Distr., ex *Rubus* sp. stems, SN, 8.ii.1984; 1 ♀, Kyiv, Novosilky, SN, 14.vi.1984, leg. A. Kotenko; 1 ♀, 2 ♂, Kyiv, on light, SN, 9.v.1986, leg. M. Nesterov; 13 ♀, 4 ♂, idem, SN, 16.ii.2007, leg. A. Gesun; *Lugansk Reg.*: 1 ♀, Provalskyi Steppe Reserve Reserve, SN, 21.vi.1979; *Odesa Reg.*: 1 ♂, Danube BR, 5 km E of Vylkove, SN, 19–20.ix.1995; *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 1.viii.1994, leg. A. Kotenko; *Zaporizhzhya Reg.*: 1 ♀, Staroberdyanskyi Reserve, SN, 7.vii.1981, leg. V. Tolkanitz.

Distribution. Holarctic and Oriental Regs; Ukraine: Crimea, Donetsk, Kherson, Kyiv, Lugansk, Odesa, Transcarpathian, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, PS. May–September.

***Perithous scurra* (Panzer, 1804)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018a).

Material examined. *Cherkasy Reg.*: 1 ♂, Kaniv, SN, 8–10.viii.1975, leg. V. Tolkanitz; 1 ♂, Kaniv NR, Maryina Gora, SN, 14.v.1977; *Crimea*: 1 ♀, kordon Taryer, SN, 27.vi.1976, leg. A. Kotenko; *Ivano-Frankivsk Reg.*: 1 ♀, Bogorodchany, SN, 5.vi.2017, leg. O. Varga; *Kharkiv Reg.*: 2 ♂, Krasnokutsk, SN, 15.vi.1992, leg. A. Kotenko; *Kyiv Reg.*: 1 ♂, Kyiv, Darnytsya, SN, 7.vi.1978, leg. V. Tolkanitz; 1 ♀, Kyiv, Irpin, SN, 17.vii.1975, leg. E. Terznikova; 1 ♀, Kyiv, SN, 11.ix.1991; 1 ♀, Kyiv, Novosilky, SN, 7.vi.1992, leg. A. Kotenko; 1 ♀, Kyiv, Bilychi, SN, 11.vi.2006, leg. M. Nesterov; *Odesa Reg.*: 1 ♀, Danube BR, 5 km E of Vylkove, SN, 19–20.ix.1995; *Poltava Reg.*: 1 ♀, Myrgorod, Ostriv, SN, 9.viii.1982; 1 ♂, idem, SN, 29.vi.1984; 1 ♀, 1 ♂, idem, SN, 29.viii.1984, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Rakhiv Distr., Kostylivka, SN, 5.vii.1975, leg. V. Tolkanitz.

Distribution. Holarctic; Ukraine: Crimea, Cherkasy, Ivano-Frankivsk, Kharkiv, Kyiv, Odesa, Poltava, and Transcarpathian Regs.

Biology. CMF, CSF, EEFS, PS. May–September.

***Perithous septemcinctorius* (Thunberg, 1822)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018a).

Material examined. *Cherkasy Reg.*: 1 ♂, Buchak, SN, 2.vi.1973, leg. V. Tolkanitz; 1 ♀, Murzyntsi, SN, 18.vi., without year and collector; *Crimea*: 1 ♀, Agarmysh, SN, 16.vi.1970, leg. V. Tolkanitz; 1 ♂, Kara-Dag, SN, 8.vii.1979, leg. A. Kotenko; *Donetsk Reg.*: 1 ♀, Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983; 1 ♂, Khomutovskyi Steppe Reserve, 2–3.vi.1983, leg. V. Tolkanitz; *Kharkiv Reg.*: 1 ♀, Kupyansk Distr., Senkove, SN, 22.vii.1984; *Kyiv Reg.*: 1 ♀, Kyiv, Feofania, SN, 23.viii.1969, leg. V. Tolkanitz; 1 ♀, idem, SN, 17.viii.2010, leg. A. Kotenko; 1 ♀, Kyiv, SN, 22.vii.2006, leg. A. Gesun; *Lugansk Reg.*: 1 ♀, Provalskyi Steppe Reserve, SN, 30.vi.1983; *Odesa Reg.*: 1 ♀, Ermakov Island, SN, 7.vi.1995; *Poltava Reg.*: 1 ♀, Kuibyshiv Island, SN, 8.vii.1983, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kyiv, Lugansk, Odesa, Poltava, and Transcarpathian Regs.

Biology. CMF, CEMF, CSF, EEFS, PS. June–August.

***Perithous speculator* Haupt, 1954**

Records. Ivano-Frankivsk Region (Varga, 2018a).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. October.

Pseudorhyssa Merrill, 1915

Pseudorhyssa alpestris (Holmgren, 1860)

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2015).

Material examined. Literature data only.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF, PMF. April–May.

Pseudorhyssa nigricornis (Ratzeburg, 1852)

Records. Ivano-Frankivsk Region (Varga, 2015).

Material examined. *Kyiv Reg.*: 1 ♀, Kyiv, SN, 29.v.2007; 1 ♀, idem, SN, 31.v.2007, leg. Gesun.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk and Kyiv Regs.

Biology. CMF, CEMF. May–July.

Tribe Ephialtini Hellén, 1915

Acrodactyla Haliday, 1838

Acrodactyla carinator (Aubert, 1965)

Records. Eastern Ukraine (Kasparyan, 1981), Ivano-Frankivsk Region (Varga, 2018b).

Material examined. *Poltava Reg.*: 1 ♀, 1 ♂, Myrgorod, Ostriv, SN, 30.viii.1984; 1 ♀, idem, SN, 31.viii.1985, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Poltava Regs.

Biology. CMF, EEFS. August.

Acrodactyla degener (Haliday, 1838)

Records. Ukraine (Kasparyan, 1981), Transcarpathian Region (Varga, 2018b).

Material examined. Literature data only.

Distribution. Holarctic; Ukraine: Transcarpathian Reg.

Biology. CMF. August.

Acrodactyla quadrisculpta (Gravenhorst, 1820)

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. Literature data only.

Distribution. Holarctic, Oriental and Australasian Regs; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. June–August.

Acropimpla Townes, 1960

Acropimpla didyma (Gravenhorst, 1829)

Records. Eastern Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 12.v.1972, leg. V. Tolkanitz; *Khmelnyskyi Reg.*: 1 ♀, Netishyn, SN, 29.vii.1999; *Kyiv Reg.*: 1 ♀, Kyiv, Pyrogiv, SN, 12.viii.2000, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Cherkasy, Khmelnyskyi and Kyiv Regs.

Biology. CEMF, EEFS. May–August.

Acropimpla pictipes (Gravenhorst, 1829)

Records. Eastern Ukraine (Kasparyan, 1981).

Material examined. *Crimea*: 1 ♂, 1 km N of Angar Pass, SN, 11.vii.1979, leg. A. Kotenko; *Donetsk Reg.*: 1 ♂, Khomutovskiy Steppe Reserve, SN, 1.v.1974; 4 ♂, Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983, leg. V. Tolkanitz;

1 ♀, Kamyani Mohyly Reserve, Nazariivka, SN, 25–27.v.2009, leg. S. Simutnik; *Ivano-Frankivsk Reg.*: 2 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 17.v.2009; 1 ♀, idem, SN, 4.vi.2010; 1 ♀, idem, SN, 28.vi.2010; 1 ♀, idem, SN, 12.v.2011; 1 ♀, idem, SN, 10.vi.2012; 1 ♀, idem, Malaise Trap, 8–14.vi.2015; 1 ♂, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 26.iv.2009; 3 ♀, 2 ♂, idem, 26–27.iv.2012; 1 ♀, idem, SN, 20.ix.2012; 1 ♀, idem, SN, 8.x.2013; 1 ♀, idem, SN, 27.iv.2014; 1 ♀, Chornogora, Nesamovyte, 25 km SW of Vorokhta, 48.130496 N, 24.538212 E, 1700 m, subalpine zone, SN, 24.viii.2014, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Ivanivske forestry, ex *Tortrix viridana*, 18.vi.1982, leg. S. Romanova; 3 ♂, Krasnokutsk, SN, 4.vii.1992; 1 ♀, idem, SN, 11.vii.1992, leg. A. Kotenko; *Kherson Reg.*: 1 ♀, Black Sea BR, Solenoozernyi area, SN, 10.vi.1976, leg. V. Tolkanitz; 1 ♀, Black Sea BR, SN, 4.v.1982, leg. A. Kotenko; 1 ♀, idem, ex *Tortrix viridana* pupa, 11.vi.1991, leg. E. Valentyuk; 1 ♀, Black Sea BR, Ivano-Rybalchanskiy area, ex *Tortrix viridana*, 25.v.1982; 2 ♀, Bekhtery, ex *Tortrix viridana* larva, 5.vi.1984, leg. L. Seryogina; *Kyiv Reg.*: 1 ♀, Kyiv, Darnytsya, SN, 6.v.1973, leg. V. Ermolenko; 1 ♂, Kyiv, Novosilky, SN, 1.v.1982, leg. S. Sviridov; 1 ♀, idem, SN, 4.vi.1982, leg. A. Kotenko; 1 ♂, idem, SN, 10.vi.1982, leg. V. Slovokhotov; 1 ♂, idem, SN, 17.vi.1982; 1 ♀, idem, SN, 5.vii.1982; 2 ♀, idem, SN, 27.v.1983, leg. S. Sviridov; 1 ♀, idem, SN, 4.v.1984; 1 ♂, idem, SN, 4.vi.1984, leg. V. Tolkanitz; 4 ♀, 2 ♂, idem, SN, 14.vi.1984; 1 ♂, idem, SN, 26.vi.1984; 1 ♀, idem, SN, 6.ix.1984, leg. A. Kotenko; 1 ♀, Kyiv, Feofania, SN, 12.v.1979, leg. Stebnovska; 1 ♂, idem, SN, 16.vi.1979, leg. A. Kotenko; 1 ♀, idem, SN, 10.vi.1985, leg. S. Sviridov; 1 ♀, idem, SN, 17.viii.2010; 1 ♀, 2 ♂, Kyiv, Teremky, SN, 31.v.1980, leg. A. Kotenko; 1 ♂, idem, SN, 4.vi.1985, leg. Pshebelska; 1 ♀, 1 ♂, idem, ex lepidopteran pupa, 31.v.1991; 1 ♂, idem, ex *Spilonota ocellana*, 1.vii.1991, leg. E. Valentyuk; 1 ♀, Kyiv, Kruglyk, SN, 15.v.1982, leg. A. Kotenko; 1 ♀, Kyiv, SN, 1.xi.1971; 1 ♀, idem, SN, 1.xi.1971, leg. A. Petrenko; 2 ♀, idem, SN, 18.viii.1974, leg. V. Tolkanitz; 1 ♂, idem, SN, 24.vi.1991; 1 ♀, idem, SN, 25.vi.1991, leg. E. Valentyuk; 1 ♀, idem, SN, 5.ix.2008, leg. A. Kotenko; 1 ♂, Knyazychi, SN, 6.vi.1983; 1 ♀, idem, SN, 3.vi.1986; 1 ♀, Lyubartsi, SN, 27.v.1986; 1 ♂, Bortnychi, SN, 30.v.1986, leg. S. Sviridov; *Lugansk Reg.*: 1 ♀, Provalskiy Steppe Reserve, SN, 9.vi.1975; 1 ♀, idem, SN, 10.vi.1975, leg. V. Tolkanitz; 1 ♀, idem, SN, 21.vi.1979, leg. A. Kotenko; *Mykolaiv Reg.*: 1 ♀, 1 ♂, Volyzhyn forest, ex *Tortrix viridana*, 10.vi.1984, leg. L. Seryogina; *Odesa Reg.*: 1 ♀, Staromanzyskiy Reserve, SN, 14.vi.1974, leg. V. Tolkanitz; 1 ♂, Lisne, ex *Tortrix viridana*, 26.v.1984, leg. L. Seryogina; *Ternopil Reg.*: 4 ♀, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, Uzhgorod, SN, 28.vi.1955, leg. N. Telenga; 1 ♀, Rakhiv, SN, 1.viii.1994, leg. A. Kotenko; 5 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, 16–18.vi.2012; 2 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, SN, 16.vi.2013; 1 ♀, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, MT, SN, 14.vi–8.vii.2015, leg. O. Varga; *Volyn Reg.*: 1 ♀, Vetly, SN, 30.vi.1977, leg. V. Odnosum; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka Distr., Pidhirne, SN, 5.vii.1980; 1 ♂, Radyvonivka Reserve, ex *Tortrix viridana*, 8.vi.1984; 1 ♀, idem, 10.vi.1984, leg. L. Seryogina.

Distribution. Palaearctic; Ukraine: Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Kyiv, Lugansk, Mykolaiv, Odesa, Ternopil, Transcarpathian, Volyn, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Alophosternum Cushman, 1933

Alophosternum albofaciale Kasparyan, 1981

Records. Ukraine (Kasparyan & Khalaim, 2007).

Material examined. Literature data only.

Distribution. Western Palaearctic; Ukraine: not stated.

Biology. Not stated.

Clistopyga Gravenhorst, 1829

Clistopyga canadensis Provancher, 1880

Records. Ternopil Region (Varga, 2018b).

Material examined. Literature data only.

Distribution. Holarctic; Ukraine: Ternopil Reg.

Biology. CEMF. August.

***Clistopyga incitator* (Fabricius, 1793)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Cherkasy Reg.:* 1 ♂, Kaniv, 1965; *Chernigiv Reg.:* 1 ♀, Vlasivka, SN, 15.viii.2004, leg. L. Romasenko; *Crimea:* 1 ♀, Alushta, SN, 17.vi.1976, leg. V. Tolkanitz; 2 ♀, Kara-Dag, SN, 8.vii.1979; 1 ♀, 6 km N of Alushta, SN, 12.vii.1979; 1 ♀, 7 km N of Alushta, SN, 17.vii.1979, leg. A. Kotenko; 1 ♀, Staryi Krym, SN, 5.vii.1979; 1 ♀, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 1 ♀, kordon Suat, SN, 15.vii.1979; 1 ♀, Tankove, SN, 18.vii.1979; 1 ♀, Aya-Cape, SN, 22.vii.1979, leg. A. Kotenko; 1 ♀, kordon Zelenyi Hai, SN, 5.x.1990, leg. S. Kononova; 1 ♂, Nikita, on light, 28–29.vi.2007, leg. V. Fursov; *Kyiv Reg.:* 2 ♀, Kyiv, Novosilky, SN, 14.vi.1984; 1 ♀, Kyiv, ix.1990; *Mykolaiv Reg.:* 1 ♀, Lupareve, SN, 16.vi.1989; *Odesa Reg.:* 1 ♀, Plavni, SN, 11.v.1979, leg. A. Kotenko; *Rivne Reg.:* 1 ♀, Verbivka, SN, 23.vi.1977, leg. V. Odnosum; *Zaporizhzhya Reg.:* 1 ♀, Vasylivka Distr., Lysa Gora, SN, 11.vii.1974, leg. V. Tolkanitz.

Distribution. Palaearctic and Afrotropical Regs; Ukraine: Cherkasy, Chernigiv, Crimea, Ivano-Frankivsk, Kyiv, Mykolaiv, Odesa, Rivne, Transcarpathian, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, EEFS, PS, PMF. May–October.

***Clistopyga rufator* Holmgren, 1856**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Kyiv Reg.:* 1 ♀, Kyiv, Irpin, SN, 2.ix.2014, leg. M. Zaika; *Odesa Reg.:* 2 ♀, 1 ♂, Desantne, SN, 11.viii.1996; *Rivne Reg.:* 1 ♀, Varash, SN, 26.v.2000, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Kyiv, Odesa and Rivne Regs.

Biology. CEMF, PS. May–September.



FIGURE 6. *Clistopyga sziladyi*, lateral view of female habitus.

***Clistopyga sziladyi* Kiss, 1959 (Fig. 6)**

Records. Ukraine (Kasparyan & Khalaim, 2007).

Material examined. *Kherson Reg.*: 1 ♂, Skadovsk Distr., Dzharylgach, SN, 20.viii.1885, leg. M. Narolsky; *Odesa Reg.*: 2 ♂, Danube BR, ? Kubanu Island, SN, 16.vii.1997, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Kherson and Odesa Regs.

Biology. PS. July–August.

***Dolichomitus* Smith, 1877**

***Dolichomitus aciculatus* (Hellen, 1915)**

Records. Ivano-Frankivsk Region (Varga, 2012, 2014b).

Material examined. *Crimea*: 1 ♂, kordon Asport, SN, 1.vi.1976, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Crimea and Ivano-Frankivsk Regs.

Biology. CMF, CSF. April–June.

***Dolichomitus agnoscendus* (Roman, 1939)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2012, 2014b).

Material examined. *Crimea*: 1 ♀, kordon Asport, SN, 1.vi.1976, leg. A. Kotenko; *Kyiv Reg.*: 1 ♀, Kyiv, Novosilky, SN, 26.viii.1984, leg. V. Tolkanitz; 1 ♀, Fastiv Distr., Kozhanka, SN, 24.vii.1999; 1 ♀, Kyiv, Teremky, SN, 1.vii.2010; *Volyn Reg.*: 1 ♀, Bile Lake, SN, 16–18.viii.1998, leg. A. Kotenko.

Distribution. Western Palaearctic; Ukraine: Crimea, Ivano-Frankivsk, Kyiv, Transcarpathian, and Volyn Regs.

Biology. CMF, CEMF, CSF. May–October.

***Dolichomitus atratus* (Rudow, 1881)**

Records. Ukraine (Kasparyan, 1981).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: not stated.

Biology. Not stated.

***Dolichomitus cephalotes* (Holmgren, 1860)**

Records. Kyiv (Tolkanitz, 2009) and Ivano-Frankivsk (Varga, 2012, 2014b) Regions.

Material examined. Literature data only.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk and Kyiv Regs.

Biology. CMF, CEMF. April–July.

***Dolichomitus curticornis* (Perkins, 1943)**

Records. Ivano-Frankivsk Region (Varga, 2012, 2014b).

Material examined. *Kyiv Reg.*: 1 ♀, Kyiv, Teremky, SN, 1.v.2010, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk and Kyiv Regs.

Biology. CMF, CEMF. April–July.

***Dolichomitus diversicostae* (Perkins, 1943)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2012, 2014b).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. May–June.

***Dolichomitus dux* (Tschek, 1869)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk Region (Varga, 2012, 2014b).

Material examined. *Rivne Reg.*: 1 ♀, Klesiv forestry, SN, 14.vi.2008, leg. G. Nuzhna; *Ternopil Reg.*: 1 ♂, Medobory NR, 9.viii.1994, leg. V. Tolkanitz.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk, Rivne and Ternopil Regs.

Biology. CMF, CEMF. June–August.

***Dolichomitus excavatus* Zwakhals, 2010**

Records. Ivano-Frankivsk Region (Varga, 2012, 2014b).

Material examined. Literature data only.

Distribution. Europe; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. April–May.

***Dolichomitus imperator* (Kriechbaumer, 1854)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk Region (Varga, 2012, 2014b).

Material examined. *Kyiv Reg.*: 1 ♀, Kyiv, SN, 20.v.2003, leg. S. Simutnik; 1 ♀, Khotiv, SN, 12.vi.2009, leg. A. Kotenko; 1 ♀, Kyiv, Bilychi, SN, 15.vi.2010, leg. M. Zaika; *Transcarpathian Reg.*: 2 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, TT, 7.v–5.vi.2014; 2 ♀, idem, TT, 5–29.vi.2014; 3 ♀, idem, TT, 29.vi–15.vii.2014; 2 ♀, idem, TT, 15.vii–10.viii.2014, leg. O. Varga; *Zhytomyr Reg.*: 1 ♀, Radomushl, SN, 12.vi.1977, leg. V. Odnosum.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk, Kyiv, Transcarpathian, and Zhytomyr Regs.

Biology. CMF, CEMF. April–July.

***Dolichomitus kriechbaumeri* (Schulz, 1906)**

Records. New record.

Material examined. *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 10.vi.2012; *Transcarpathian Reg.*: 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012, leg. O. Varga.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. June.

***Dolichomitus mesocentrus* (Gravenhorst, 1829)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2012, 2014b).

Material examined. *Cherkasy Reg.*: 1 ♂, Kaniv NR, SN, 22.v.2008, leg. Dolinsky; *Chernigiv Reg.*: 1 ♀, Gurbyntsi, SN, 7.v.1990, leg. P. Sheshurak; *Kyiv Reg.*: 1 ♀, Kyiv, Teremky, SN, 31.v.1980; 2 ♀, Kyiv, Novosilky, SN, 7.vi.1992, leg. A. Kotenko; 1 ♀, Kyiv, SN, 16.vi.2006; 1 ♀, idem, SN, 22.x.2006; 1 ♀, idem, SN, 16.ii.2007; 1 ♀, idem, SN, 14.v.2007; 1 ♀, idem, SN, 27.v.2007; 1 ♀, idem, SN, 29.v.2007, leg. A. Gesun; 1 ♀, Khodosivka, SN, 9.xi.2013, leg. M. Zaika.

Distribution. Holarctic; Ukraine: Cherkasy, Chernigiv, Ivano-Frankivsk, Kyiv, and Transcarpathian Regs.

Biology. CMF, CEMF, CSF. April–October.

***Dolichomitus messor* (Gravenhorst, 1829)**

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2012, 2014b).

Material examined. *Transcarpathian Reg.*: 1 ♂, Rakhiv, SN, 1.viii.1994, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. May–September.

***Dolichomitus milleri* Zwakhals, 2010**

Records. New record.

Material examined. *Transcarpathian Reg.*: 3 ♀, Vynogradiv Distr., Chorna Gora, 280 m, oak forest, 48.138338 N, 23.073689 E, SN, 3.v.2018, leg. O. Varga.

Distribution. Europe; Ukraine: Transcarpathian Reg.

Biology. PMF. May.

***Dolichomitus mordator* (Aubert, 1965)**

Records. Ukraine (Kasparyan, 1981).

Material examined. Literature data only.
Distribution. Palaearctic; Ukraine: not stated.
Biology. Not stated.

***Dolichomitus populneus* (Ratzeburg, 1848)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk Region (Varga, 2012, 2014b).

Material examined. Literature data only.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. May–June.

***Dolichomitus pterelas* (Say, 1829)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk Region (Varga, 2012, 2014b).

Material examined. *Kharkiv Reg.*: 1 ♀, Sharivka, SN, 14.vi.1992, leg. A. Kotenko; *Kyiv Reg.*: 1 ♀, Kyiv, Novosilky, SN, 4.vi.1984, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, Vynogradiv Distr., Chorna Gora, 280 m, oak forest, 48.138338 N, 23.073689 E, SN, 3.v.2018, leg. O. Varga.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk, Kharkiv, Kyiv, and Transcarpathian Regs.

Biology. CMF, CEMF, CSF, EEFS. May–August.

***Dolichomitus quercicolus* Zwakhals, 2010**

Records. Ivano-Frankivsk and Kharkiv Regions (Varga, 2014b).

Material examined. *Kyiv Reg.*: 1 ♀, Kyiv, SN, 29.v.2007, leg. A. Gesun; 2 ♀, Kyiv, Bilychi, SN, 15.vi.2010, leg. M. Zaika; *Transcarpathian Reg.*: 1 ♀, Vynogradiv Distr., Chorna Gora, 280 m, oak forest, 48.138338 N, 23.073689 E, MT, 2–17.v.2017; 1 ♀, idem, SN, 17.v.2017, leg. O. Varga.

Distribution. Europe; Ukraine: Ivano-Frankivsk, Kharkiv, Kyiv, and Transcarpathian Regs.

Biology. CMF, CEMF, CSF, EEFS. May–July.

***Dolichomitus sericeus* (Hartig, 1847)**

Records. Ivano-Frankivsk Region (Varga, 2014b).

Material examined. *Ivano-Frankivsk Reg.*: 6 ♀, 18 ♂, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, TT, 11–26.v.2014; 5 ♀, idem, TT, 26.v–9.vi.2014, leg. O. Varga.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. May–July.

***Dolichomitus sirenkoi* Varga, 2012**

Records. Ivano-Frankivsk Region (Varga, 2012, 2014b).

Material examined. Literature data only.

Distribution. Europe; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. April–June.

***Dolichomitus terebrans* (Ratzeburg, 1844)**

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2012, 2014b).

Material examined. *Crimea*: 1 ♀, Chatyr-Dag, SN, 4.vii.1976, leg. V. Tolkanitz; *Kyiv Reg.*: 1 ♀, Kyiv, Bilychi, SN, 11.v.2004, leg. M. Nesterov.

Distribution. Holarctic; Ukraine: Crimea, Ivano-Frankivsk, Kyiv, and Transcarpathian Regs.

Biology. CMF, CEMF, CSF. April–July.

***Dolichomitus tuberculatus* (Geoffroy, 1785)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2012, 2014b).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. May–October.

Endromopoda Hellén, 1939

Endromopoda arundinator (Fabricius, 1804)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv Distr., Trakhtemyriv Island, SN, 14.v.2000; 1 ♀, idem, SN, 15.v.2000; *Crimea*: 6 ♀, 1 ♂, Opuk, SN, 18–19.vi.1998; *Donetsk Reg.*: 1 ♀, Khomutovskyi Steppe Reserve, SN, 24.vi.1979; *Kherson Reg.*: 1 ♀, Gola Prystan, Gopri, SN, 3.vi.1982; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 14.vii.1981; 1 ♀, idem, SN, 14.vii.2008, leg. A. Kotenko; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 4.vii.1977; 1 ♂, Kyiv, Irpin, SN, 30.v.1979, leg. V. Ermolenko; 1 ♂, Kyiv, Pyrogiv, SN, 12.viii.2000, leg. A. Kotenko; 1 ♂, Kyiv, Bilychi, SN, 11.vi.2004; 1 ♀, idem, SN, 1.viii.2004, leg. M. Nesterov; *Lugansk Reg.*: 3 ♂, Krynychne, SN, 12–15.vii.2008, leg. S. Klymenko; *Mykolaiv Reg.*: 1 ♀, Berezanka Distr., Tashyne, SN, 10.vi.2010, leg. G. Nuzhna; *Odesa Reg.*: 1 ♀, Reni, SN, 20.vi.1974, leg. S. Kononova; 6 ♀, Danube BR, 4 km W of Shevchenkove, SN, 8.ix.1995, leg. A. Kotenko; 1 ♀, Danube BR, Stambulskyi island, SN, 8.vii.1997, leg. D. Kasparyan; 1 ♀, Savranske, SN, 4.viii.2004, leg. A. Kotenko; *Rivne Reg.*: 2 ♀, Sarny Distr., near Somyno Lake, SN, 14.vi.2008; 1 ♀, Klesiv forestry, SN, 14.vi.2008, leg. G. Nuzhna; *Volyn Reg.*: 1 ♀, 5 ♂, Kovel Distr., left bank of river Turya, SN, 2.viii.1998; 1 ♀, idem, Volyanske Lake, SN, 7.viii.1998; 1 ♀, idem, Lyubcha Lake, SN, 15.viii.1998, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Cherkasy, Crimea, Donetsk, Kherson, Kyiv, Lugansk, Mykolaiv, Odesa, Rivne, and Volyn Regs.

Biology. CEMF, CSF, EEFS, PS. May–September.

Endromopoda detrita (Holmgren, 1860)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 2 ♀, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz; 1 ♀, Kaniv Distr., Lukovytsya, SN, 4.vii.1999, leg. A. Kotenko; 1 ♀, Kaniv NR, SN, 19.v.1972; 1 ♀, idem, SN, 25.v.1972; 1 ♀, idem, SN, 26.v.1972, leg. V. Tolkanitz; 1 ♀, idem, SN, 14.ix.1988, leg. O. Chervonenko; *Chernigiv Reg.*: 2 ♀, Vulivka, SN, 7.viii.1989, leg. P. Sheshurak; 1 ♀, 8 km W of Ichnya, SN, 31.v.2008, leg. A. Kotenko; *Crimea*: 1 ♀, river Tuakaska, SN, 19.vi.1970, leg. V. Tolkanitz; 1 ♀, Izobilne, SN, 26.vi.1976; 1 ♀, 6 km N of Alush-ta, SN, 12.vii.1979, leg. A. Kotenko; 1 ♀, Mnohoricchya, SN, 11–12.vii.1990; *Donetsk Reg.*: 1 ♀, Svyatogirsk, SN, 7.vi.1975, leg. V. Tolkanitz; 1 ♀, Khomutovskyi Steppe Reserve, SN, 20.iv.1978; 5 ♀, idem, SN, 24.vi.1979; 4 ♀, idem, SN, 25.vi.1979, leg. A. Kotenko; *Ivano-Frankivsk Reg.*: 2 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 12.vii.2010; 4 ♀, 9 ♂, idem, SN, 9.v.2011; 1 ♀, idem, SN, 12.v.2011; 1 ♀, idem, SN, 31.v.2011; 1 ♀, idem, SN, 7.ix.2011; 1 ♀, idem, MT, 14–29.vii.2014; 1 ♀, idem, MT, 31.viii–14.ix.2014; 1 ♀, idem, MT, 8–14.vi.2015; 2 ♀, idem, MT, 31.viii–22.ix.2015; 4 ♀, 34 ♂, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 26–27.iv.2012; 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 1.vii.2012, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Kindrashivka, SN, 3.v.1978, leg. A. Kotenko; 1 ♀, Krasnokutsk, SN, 4.vii.1992; 1 ♀, idem, SN, 9.vii.1992; 2 ♀, idem, SN, 11.vii.1992; 1 ♀, idem, SN, 4.vi.1993, leg. V. Tolkanitz; *Kherson Reg.*: 1 ♀, Skadovsk, SN, 3.v.1983; 1 ♀, Skadovsk Distr., Krasne, SN, 4.v.1983, leg. M. Nesterov; 6 ♀, Black Sea BR, Solenoozernyi area, SN, 25–27.v.1976; 1 ♀, idem, SN, 30.v–1.vi.1976, leg. V. Tolkanitz; 1 ♀, idem, SN, 28.v.1978; 1 ♀, idem, SN, 8.ix.1978; 2 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 9.vi.1998; 1 ♀, 1 ♂, Burkuty, SN, 24.vi.1978; 2 ♀, idem, SN, 25.vi.1978; 2 ♀, 4 ♂, idem, SN, 26.vi.1978, leg. A. Kotenko; *Khmelnyskyi Reg.*: 3 ♀, Shydlytsi, SN, 28.vii.1988; *Kyiv Reg.*: 1 ♀, Kyiv, Darnytsya, SN, 27.v.1970, leg. V. Tolkanitz; 1 ♀, Kyiv, Sofiiivka, SN, 28–29.vii.1970, leg. A. Kotenko; 2 ♀, Bila Tserkva, SN, 31.vii.1970, leg. V. Tolkanitz; 1 ♀, Kyiv, Fastiv, SN, 11.vii.1972; 1 ♂, Klavdi-evo-Tarasove, SN, 11.vi.1977, leg. A. Kotenko; 1 ♀, 15 km N of Chornobyl, SN, 16.vi.1977, leg. V. Odnosum; 1 ♀, Kyiv, SN, 24.vii.1977; 1 ♀, idem, SN, 7.viii.1977; 1 ♀, Kyiv, Irpin, SN, 7.viii.1977, leg. A. Kotenko; 3 ♀, idem, SN, 25.xi–28.xii.1978, leg. M. Nesterov; 3 ♀, idem, SN, 8.viii.1982; 1 ♀, Lisnyky, SN, 28.viii.1977; 1 ♀, Kyiv, Teremky, SN, 31.v.1980; 1 ♀, idem, SN, 3.vi.1992, leg. A. Kotenko; 3 ♀, 1 ♂, idem, SN, 15.vii.2008, leg. I. Pavlusenko; 1 ♀, idem, SN, 1.vii.2010; 1 ♀, idem, SN, 15.vii.2010; 3 ♀, Kyiv, Kruglyk, SN, 4.ix.1980, leg. A. Kotenko; 1 ♀, idem, SN, 3.vi.1981, leg. V. Tolkanitz; 1 ♀, Skybyn, SN, 18.viii.1982, leg. A. Kotenko; 1 ♀, Kyiv, Novosilky, SN, 4.v.1984; 1 ♀, idem, SN, 24.v.1984; 1 ♀, idem, SN, 26.vi.1984, leg. V. Tolkanitz; 1 ♀, idem, SN, 4.vii.1984, leg. A. Kotenko; 2 ♀, idem, SN, 12.v.1985, leg. S. Zrashevsky; 2 ♀, Myronivka Distr., Velykiy Bukryn, SN, 1.vii.1999; 3 ♀, Kyiv, Pyrogiv, SN, 12.viii.2000, leg. A. Kotenko; *Lugansk Reg.*: 1 ♂, Pishchane forestry, SN,

14.vi.1972; 6 ♀, Provalskyi Steppe Reserve, SN, 9.vi.1975, leg. V. Tolkanitz; 5 ♀, Novo-Ilylenko bio-station, SN, 1–2.v.1978; 2 ♀, Lugansk NR, Striltsivskyi Steppe, SN, 7.v.1978, leg. A. Kotenko; *Mykolaiv Reg.*: 1 ♀, Pervomaisk Distr., Kuripchyne, SN, 23.v.1980, leg. M. Nesterov; 1 ♀, idem, SN, 19.vii.1981, leg. Bripchynets; *Odesa Reg.*: 1 ♀, Bilyaivka, SN, 28.vi.1974; 1 ♀, idem, SN, 2.vii.1974, leg. V. Tolkanitz; 2 ♀, Balta, SN, 17.vii.1992, leg. A. Kotenko; *Poltava Reg.*: 1 ♀, Kobelyaky Distr., near river Vorskla, SN, 28.vii.1982, leg. V. Odnosum; 1 ♀, Myrgorod, SN, 29.viii.1984, leg. A. Kotenko; *Rivne Reg.*: 1 ♀, ♂, Sarny Distr., near Somyno Lake, SN, 14.vi.2008; 1 ♀, Karasyn forestry, SN, 15.vi.2008; 3 ♀, Chudel, SN, 17–18.vi.2008, leg. G. Nuzhna; *Ternopil Reg.*: 14 ♀, Ustya, SN, 24.vii.1988; 5 ♀, Medobory NR, SN, 26.v.1994; 11 ♀, idem, SN, 9.viii.1994; 2 ♀, idem, SN, 10.viii.1994; *Transcarpathian Reg.*: 1 ♀, Svalyava Distr., Polyana, abandoned apple orchard, SN, 5.vii.1986; 1 ♀, idem, SN, 12.vii.1986; 1 ♀, Rakhiv Distr., 2 km W of Bogdan, 600–700 m, beech forest, SN, 27.vii.1972, leg. V. Tolkanitz; 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012, leg. O. Varga; *Vinnitsya Reg.*: 2 ♀, Vinnitsya ? forestry, SN, 12.vii.1988, leg. V. Tolkanitz; *Volyn Reg.*: 1 ♀, Bile Lake, SN, 16–18.viii.1998; 1 ♀, right bank of river Prypyat, 2 km of Nevyr Lake, SN, 18.viii.1998; 1 ♀, Kovel Distr., left bank of river Turya, SN, 2.viii.1998; 2 ♀, idem, Lyubcha Lake, SN, 15.viii.1998; 2 ♀, Lyubeshiv Distr., Lyubotyn, SN, 21.viii.1998, leg. A. Kotenko; *Zaporizhzhya Reg.*: 1 ♀, Melitopol, SN, 4.vii.1980; 1 ♀, idem, SN, 12.viii.1981, leg. V. Dolin; 3 ♀, Staroberdyanskyi Reserve, SN, 10.v.1978; 2 ♀, Vasylivka Distr., Lysa Gora, SN, 11.v.1978; 1 ♀, 3 ♂, Tambovka, SN, 8.v.1978; 5 ♀, 2–3 km S of Vasylivka, SN, 9.vii.1980, leg. V. Tolkanitz; *Zhytomyr Reg.*: 2 ♀, Oзера, SN, 2.viii.1980, leg. A. Kotenko.

Distribution. Holarctic and Oriental Regs; Ukraine: Cherkasy, Chernigiv, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Lugansk, Mykolaiv, Odesa, Poltava, Rivne, Ternopil, Transcarpathian, Vinnitsya, Volyn, Zaporizhzhya, and Zhytomyr Regs.

Biology. CMF, CEMF, CSF, EEFS, PS. April–November.

***Endromopoda nigricoxis* (Ulbricht, 1910)**

Records. Ukraine (Kasparyan, 1981: as *E. detrita*).

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 23.v.1972, leg. V. Tolkanitz; *Ivano-Frankivsk Reg.*: 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 2.vi.2013; 1 ♀, Gorgany, 10 km SW of Stara Guta, coniferous forest, SN, 18.viii.2011; 1 ♀, idem, SN, 18.vii.2015, leg. O. Varga; *Kyiv Reg.*: 1 ♀, ? Mamotynka, SN, 20.v.1979; *Transcarpathian Reg.*: 2 ♀, Kukul, SN, 24.vii.1972; 5 ♀, idem, SN, 25.vii.1972; 3 ♀, idem, SN, 26.vii.1972; 1 ♀, idem, SN, 27.vii.1972, leg. V. Tolkanitz; 1 ♀, 8–9 km E of Yasynya, SN, 30.vi.1975; 1 ♀, Zubrivka, SN, 30.vi.1975, leg. V. Ermolenko; 2 ♀, Chornogora, 1500–1600 m, coniferous forest, SN, 5.viii.1994; 1 ♀, Chornogora, Bilyi, coniferous forest, SN, 6.viii.1994; 1 ♀, idem, SN, 8.viii.1994; 1 ♀, Kuziy, beech forest, SN, 12.viii.1994; 10 ♀, Rakhiv Distr., Marmarosy, Kvasnyi, 20–21.vii.1995, leg. A. Kotenko; 7 ♀, Marmarosy, 11–12 km SE of Dilove, 47.925407 N, 24.311800 E, 1550 m, subalpine zone, m. Pip-Ivan, SN, 6–9.viii.2012; 1 ♀, idem, m. Mika-Mare, SN, 1.viii.2013; 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012; 2 ♀, idem, MT, 18.vii–10.viii.2014, leg. O. Varga; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka, SN, 24.viii.1972.

Distribution. Western Palaearctic; Ukraine: Cherkasy, Ivano-Frankivsk, Transcarpathian and Zaporizhzhya Regs.

Biology. CMF, EEFS, PS. May–August.

***Endromopoda nitida* (Brauns, 1898)**

Records. New record.

Material examined. *Odesa Reg.*: 1 ♀, Reni, SN, 14.viii.1972, leg. V. Tolkanitz.

Distribution. Palaearctic; Ukraine: Odesa Reg.

Biology. PS. August.

***Endromopoda phragmitidis* (Perkins, 1957)**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Crimea*: 1 ♀, Izobilne, SN, 21.vi.1976, leg. V. Tolkanitz; *Kharkiv Reg.*: 1 ♀, Krasnokutsk, SN, 11.vii.1992; *Kherson Reg.*: 4 ♀, Burkuty, SN, 23.vi.1978; 2 ♀, idem, SN, 26.vi.1978, leg. A. Kotenko; *Khmelnytskyi Reg.*: 1 ♂, Zaluchchya, SN, 29.vii.1988, leg. V. Tolkanitz; *Odesa Reg.*: 5 ♀, Ermakov Island, SN, 7.vi.1995, leg. A.

Kotenko; *Vinnitsya Reg.*: 2 ♀, Vinnitsya ? forestry, SN, 27.vii.1988; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka Distr., Lysa Gora, SN, 11.vii.1974, leg. V. Tolkanitz; 1 ♀, Obytichna Spit, SN, 27.vi.1979, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Crimea, Kharkiv, Kherson, Khmelnytskyi, Odesa, Vinnitsya, and Zaporizhzhya Regs.

Biology. CEMF, EEFS, PS. June–July.

Ephialtes Gravenhorst, 1829

Ephialtes duplicauda Heinrich, 1949 (Fig. 7a, d, f, h)

Records. New record.

Material examined. *Chernigiv Reg.*: 1 ♀, 8 km W of Ichnya, SN, 31.v.2008, leg. A. Kotenko; *Ivano-Frankivsk Reg.*: 2 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 31.v.2011; 2 ♀, idem, SN, 6.vi.2011; 1 ♀, idem, SN, 18.vi.2011; 1 ♀, 9 ♂, idem, SN, 19.v.2012; 1 ♀, idem, SN, 29.v.2012; 1 ♀, idem, SN, 31.v.2012; 1 ♀, idem, SN, 10.vi.2012; 2 ♀, 1 ♂, idem, SN, 19.vii.2012; 1 ♂, idem, SN, 6.v.2013; 2 ♂, idem, SN, 12.v.2013; 1 ♂, idem, SN, 14.v.2014; 1 ♂, idem, TT, 11–26.v.2014; 2 ♂, idem, TT, 26.v–9.vi.2014; 1 ♀, idem, TT, 9–27.vi.2014; 1 ♀, idem, TT, 13–29.vii.2014; 2 ♂, idem, TT, 21.vii–10.viii.2015; 1 ♀, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 24.vi.2012; 2 ♀, 7 ♂, Nadvirna Distr., Gorgany, Elmy, 15 km SW of Yaremche, 48.415462 N, 24.418878 E, 950 m, coniferous forest, SN, 8.vi.2013; 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 1.vii.2012; 1 ♂, idem, SN, 30.v.2013; *Transcarpathian Reg.*: 1 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, SN, 23.viii.2009; 1 ♀, idem, TT, 29.vi–15.vii.2014; 1 ♀, idem, TT, 15.vii–10.viii.2014; 2 ♀, idem, TT, 10.viii–1.ix.2014; 1 ♀, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, MT, 12–31.v.2015, leg. O. Varga.

Distribution. Holarctic and Oriental Regs; Ukraine: Chernigiv, Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF, CEMF. May–August.

Ephialtes manifestator (Linnaeus, 1758) (Fig. 7e, i)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 1 ♂, Trakhtemyriv, SN, 14.v.2000, leg. A. Kotenko; *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 30.viii.2012; 1 ♀, idem, SN, 17.viii.2013; 1 ♀, idem, TT, 11–26.v.2014; 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 5.vi.2011, leg. O. Varga; *Kyiv Reg.*: 1 ♂, Kyiv, Teremky, SN, 31.v.1980, leg. A. Kotenko; 1 ♀, Kyiv, Boryspil, SN, 9.vi.1983, leg. M. Nesterov; 1 ♀, Kyiv, Novosilky, SN, 14.vi.1984; 1 ♀, Kyiv, ix.1990, leg. A. Kotenko; 1 ♀, Kyiv, SN, 29.v.2007, leg. A. Gesun; *Transcarpathian Reg.*: 1 ♀, ? Rakhiv, SN, 11.vi.1952, leg. N. Telenga; 1 ♀, idem, SN, 29.vii.1994, leg. A. Kotenko.

Distribution. Holarctic and Oriental Regs; Ukraine: Cherkasy, Ivano-Frankivsk, Kyiv, and Transcarpathian Regs.

Biology. CMF, CEMF, CSF. May–August.

Ephialtes zirnitsi Ozols, 1962 (Fig. 7b, g)

Records. New record.

Material examined. *Ivano-Frankivsk Reg.*: 2 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 18.vi.2011; 1 ♀, idem, TT, 13–29.vii.2014; 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 18.vi.2013, leg. O. Varga.

Distribution. Western Palaearctic; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. June–July.

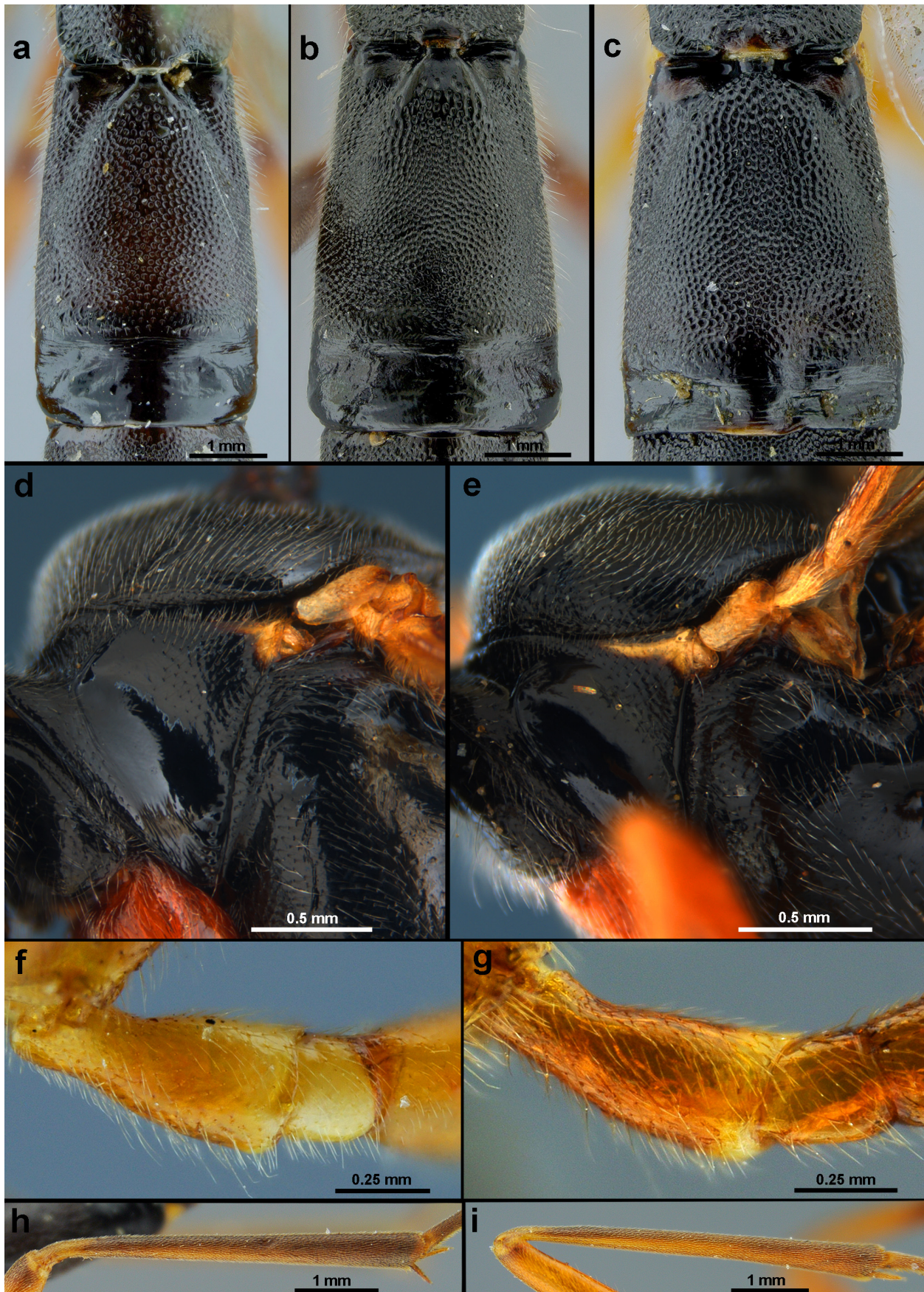


FIGURE 7. *Ephialtes* spp., female. a–c) dorsal view of second metasomal tergite: a) *E. duplicicauda*; b) *E. zirnitsi*; c) *E. brevis*; d–e) lateral view of pronotum: d) *E. duplicicauda*; e) *E. manifestator*; f–g) fore trochanter and trochantellus: f) *E. duplicicauda*; g) *E. zirnitsi*; h–i) lateral view of hind tibia: h) *E. duplicicauda*; i) *E. manifestator*.

Exeristes Förster, 1869

Exeristes arundinis (Kriechbaumer, 1887)

Records. Ukraine (Kasparyan, 1981), Odesa Region (Varga, 2017a).

Material examined. *Crimea*: 1 ♀, Kazantyp, SN, 1.vii.1979; 1 ♂, Opuk, SN, 18–19.vi.1998, leg. A. Kotenko; *Kherson Reg.*: 1 ♀, Black Sea BR, Solenoozernyi area, ex *Phragmites* sp., viii.1974, leg. M. Zerova; *Mykolaiv Reg.*: 1 ♀, Tashyne, SN, 10.vi.2010, leg. G. Nuzhna; *Odesa Reg.*: 3 ♀, 6 ♂, Danube BR, Prymorske, SN, 2.ix.1995; 3 ♀, 3 ♂, idem, SN, 3.ix.1995; 1 ♀, 2 ♂, idem, SN, 7.ix.1995; 3 ♀, 2 ♂, idem, 12–14.ix.1995; 1 ♀, idem, SN, 16.ix.1995; 1 ♀, Ermakov Island, SN, 15.ix.1995, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Crimea, Kherson, Mykolaiv, and Odesa Regs.

Biology. CSF, PS. June–September.

Exeristes longiseta (Ratzeburg, 1844)

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2017a).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. June–July.

Exeristes roborator (Fabricius, 1793)

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk Region (Varga, 2017a).

Material examined. *Crimea*: 1 ♀, Angar Pass, ex *Rhyacionia buoliana* pupa, 17.vii.1964, leg. Yu. Kostyuk; 1 ♂, Kazantyp, SN, 14.vi.1970, leg. V. Tolkanitz; 5 ♀, 7 ♂, idem, SN, 1.vii.1979, leg. A. Kotenko; 1 ♀, Kara-Dag, SN, 7.vi.1978, leg. Pshebelska; 2 ♀, 1 ♂, idem, SN, 8.vii.1979, leg. A. Kotenko; 1 ♂, idem, SN, 27.v.1985, leg. S. Kononova; 1 ♀, 2 ♂, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 3 ♀, 5 ♂, Staryi Krym, SN, 4.vii.1979; 1 ♂, 7 km N of Alushta, SN, 17.vii.1979; 6 ♀, 3 ♂, Tarkhankut, Olenivka, SN, 25.vii.1979; 1 ♀, 2 ♂, 5 km N of Olenivka, SN, 25.vii.1979; 1 ♀, Izobilne, SN, 11.ix.1979, leg. A. Kotenko; 1 ♀, Perecop Schaft, SN, 18.vi.1990, leg. E. Efetov; 1 ♀, Nyzhnya Kutuzivka, SN, 1.x.1990, leg. S. Kononova; 1 ♀, Opuk, 18–19.vi.1998, leg. A. Kotenko; *Dnipro Reg.*: 3 ♂, Dniprovsko-Orylskyi Reserve, SN, 22–25.x.2003, leg. S. Klymenko; *Donetsk Reg.*: 1 ♂, Khomutovskyi Steppe Reserve, ex *Centaurea orientalis*, 3.v.1972, leg. A. Osychnyuk; 2 ♀, 1 ♂, idem, SN, 23.iv.1975, leg. M. Zerova; 4 ♀, 3 ♂, idem, SN, 2.viii.1982, leg. S. Volovnik; 1 ♀, idem, but ex *Echinops* sp., 22.iv.1975, leg. M. Zerova; 2 ♀, idem, 1–2.viii.1982, leg. S. Volovnik; 2 ♂, idem, SN, 21.v.1985, leg. S. Kononova; 1 ♀, Kamyani Mohyly Reserve, Nazarivka, SN, 12.viii.1982, leg. V. Tolkanitz; 2 ♀, idem, ex *Cirsium setosum*, 15.viii.1982, leg. S. Volovnik; 1 ♀, 12 ♂, idem, ex *Diplolepsis mayri* galls on *Rosa* sp., 1–4.x.2000, leg. V. Fursov; 1 ♂, river Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983, leg. V. Tolkanitz; *Kherson Reg.*: 1 ♂, Gola Prystan, SN, 7.viii.1978; 2 ♀, 3 ♂, idem, SN, 9.viii.1978, leg. A. Kotenko; 1 ♀, Gola Prystan Distr., Sadove, SN, 26.iv.1983; 1 ♂, Skadovsk, SN, 3.v.1983, leg. M. Nesterov; 3 ♂, Genichesk Distr., Byryuchyi, SN, 25–26.viii.1983, leg. V. Tolkanitz; 1 ♂, Black Sea BR, ex *Rhyacionia buoliana* pupa, 6.vi.1966; 1 ♂, idem, 7.vi.1966; 1 ♂, idem, 9.vi.1966; 1 ♀, idem, 17.vi.1966; 1 ♀, 1 ♂, idem, 20.vi.1966; 1 ♀, idem, 21.vi.1966; 1 ♀, idem, 22.vi.1966; 1 ♀, idem, 2.vii.1966, leg. Yu. Kostyuk; 1 ♂, Black Sea BR, Solenoozernyi area, SN, 21.vii.1974; 1 ♀, idem, SN, 25–27.v.1976, leg. V. Tolkanitz; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 14.viii.1973, leg. T. Pavlyuk; 1 ♀, 1 ♂, idem, SN, 8.ix.1978; 1 ♀, idem, SN, 10.vi.1983, leg. A. Kotenko; 2 ♀, Askania-Nova, SN, 26.v.1974; 1 ♀, Oleksandrivka, SN, 5.vi.1974; 4 ♀, idem, SN, 6.vi.1974; 1 ♀, idem, SN, 18.vi.1975, leg. V. Tolkanitz; 2 ♀, 6 ♂, 25–30 km of Genichesk, SN, 29.vi.1979, leg. A. Kotenko; 1 ♂, Skadovsk Distr., Dzharlygach, SN, 2.ix.1983, leg. V. Tolkanitz; 1 ♀, Radensk, SN, 2.vi.1998, leg. A. Kotenko; 3 ♀, 1 ♂, Churyuk Island, ex *Carduus* sp., leg. S. Volovnik; *Khmelnyskyi Reg.*: 1 ♂, Oleksiivka, SN, 28.vi.1979; 1 ♀, idem, SN, 25.v.1982, leg. Tolkanitz; *Kropyvnytskyi Reg.*: 2 ♀, 3 ♂, Pershotravneve, ex *Lixus subtilis*, viii.1983, leg. I. Pisnya; *Kyiv Reg.*: 1 ♂, Kyiv, SN, 7.viii.1977; 1 ♀, idem, SN, 19.ix.2004, leg. A. Kotenko; 2 ♀, 1 ♂, Kyiv, Kruglyk, SN, 31.viii.2010, leg. G. Nuzhna; 2 ♀, Kyiv, Khodosivka, SN, 16.viii.2005, leg. M. Nesterov; *Lugansk Reg.*: 1 ♂, Provalskyi Steppe Reserve, SN, 1.vii.1983, leg. A. Kotenko; 1 ♂, Lugansk NR, SN, 23.iii.1983, leg. V. Odnosum; 2 ♂, Lugansk NR, Striltsivskyi Steppe, SN, 7.v.1978, leg. A. Kotenko; 1 ♂, idem, SN, 4.v.1983, leg. V. Tolkanitz; 1 ♂, idem, ex *Diplolepsis* sp. galls on *Rosa* sp., without date; 1 ♂, Krynychne, ex *Diplolepsis rosae*, 12–15.vii.2008, leg. S. Klymenko; *Mykolaiv Reg.*: 1 ♂, Ochakiv Distr., Parutyne, SN, 18.v.1978; 2 ♀, Ochakiv, SN, 15–17.viii.1978, leg. A. Kotenko; 1 ♀, Kuznetsove, SN, 10.vii.1981, leg. I. Bogdanovych; 1 ♀, Tashyne, SN,

12–14.vi.2010, leg. G. Nuzhna; 1 ♂, idem, ex galls on *Rosa sp.*, 9.iv.2011, leg. V. Nazarenko; *Odesa Reg.*: 1 ♀, Reni, SN, 14.viii.1972, leg. V. Tolkanitz; 1 ♀, Plavni, SN, 11.v.1979, 1 ♀, Balta, SN, 20.vii.1992; 1 ♀, 1 ♂, Danube BR, Ermakov Island, SN, 15.ix.1995, leg. A. Kotenko; 1 ♀, Kalynivka, SN, 22.ix.1995, leg. E. Maksymovych; 2 ♂, Danube BR, Prymorske, SN, 2.ix.1995; 2 ♀, 1 ♂, idem, SN, 5.ix.1995; 1 ♀, idem, SN, 7.ix.1995; 4 ♀, 4 ♂, idem, SN, 12–14.ix.1995; 3 ♀, idem, SN, 16.ix.1995; 1 ♂, Danube BR, 4 km W of Shevchenkove, SN, 8.ix.1995; 1 ♂, Danube BR, 5 km E of Vylkove, SN, 9.ix.1995; 3 ♀, idem, SN, 19–20.ix.1995; 1 ♀, 2 ♂, Vylkove, SN, 8.x.1997, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Rakhiv Distr., Kobyla Mountain, SN, 29.viii.1952, leg. N. Telenga; 1 ♀, Marmarosy, SN, 4.vii.1975, leg. A. Kotenko; *Vinnytsya Reg.*: 1 ♀, 4 ♂, Pultivtsi, SN, 30.vi.1982; 7 ♀, 3 ♂, idem, SN, 14–20.7.82, leg. Nazarov; 1 ♀, Oksanivka, SN, 22.vii.1988; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka Distr., Lysa Gora, SN, 7.v.1978; 1 ♀, Tambovka, SN, 7–8.vii.1981, leg. V. Tolkanitz; 1 ♀, Obytichna Spit, SN, 27.vi.1979; 1 ♀, idem, SN, 20–26.viii.1984, leg. A. Kotenko; 1 ♀, idem, ex *Lixus canescens* in *Crambe pontica* stem, 23.viii.1983; 1 ♀, idem, 24.viii.1983; 1 ♀, idem, 27.viii.1983; 22 ♀, 5 ♂, Staroberdyanskyi Reserve, ex *Cirsium ucrainicum*, 2.ix.1982, leg. S. Volovnik.

Distribution. Afrotropical, Oriental and Palaearctic Regs; Ukraine: Crimea, Dnipro, Donetsk, Ivano-Frankivsk, Kherson, Khmelnytskyi, Kropyvnytskyi, Kyiv, Lugansk, Mykolaiv, Odesa, Transcarpathian, Vinnytsya, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, PS. April–October.

Flavopimpla Betrem, 1932

Flavopimpla cicatricosa (Ratzeburg, 1848)

Records. New record.

Material examined. *Khmelnytskyi Reg.*: 1 ♀, Kamyanka, SN, 23.vi.1999, leg. A. Kotenko.

Distribution. Western Palaearctic; Ukraine: Khmelnytskyi Reg.

Biology. CEMF. June.

Fredegunda Fitton, Shaw & Gauld, 1988

Fredegunda diluta (Ratzeburg, 1852)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Crimea*: 2 ♀, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 1 ♀, 5 km N of Olenivka, SN, 25.vii.1979; 1 ♂, Opuk, SN, 18–19.vi.1998; *Donetsk Reg.*: 1 ♀, Khomutovskyi Steppe Reserve, SN, 24.vi.1979, leg. A. Kotenko; *Kherson Reg.*: 1 ♀, Black Sea BR, Solenoozernyi area, SN, 25–27.v.1976, leg. V. Tolkanitz; 3 ♀, 25–30 km of Genichesk, SN, 29.vi.1979, leg. A. Kotenko; *Odesa Reg.*: 1 ♀, Bilyaivka, SN, 2.vii.1974, leg. V. Tolkanitz; 1 ♀, Plavni, SN, 11.v.1979; *Zaporizhzhya Reg.*: 2 ♀, Obytichna Spit, SN, 27.vi.1979, leg. A. Kotenko.

Distribution. Western Palaearctic; Ukraine: Crimea, Donetsk, Kherson, Odesa, and Zaporizhzhya Regs.

Biology. CSF, PS. May–July.

Gregopimpla Momoi, 1965

Gregopimpla inquisitor (Scopoli, 1763)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 23.v.1972; 1 ♀, idem, Maryina Gora, SN, 28.v.1974, leg. V. Tolkanitz; 1 ♀, idem, SN, 15.vii.1977, leg. I. Bogdanovych; *Chernigiv Reg.*: 2 ♀, 8 km W of Ichnya, SN, 31.v.2008, leg. A. Kotenko; *Crimea*: 1 ♀, kordon Zelenyi Hai, SN, 5.x.1990, leg. S. Kononova; *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 31.v.2011; 1 ♀, idem, SN, 19.v.2012; 1 ♀, idem, SN, 23.v.2014; 1 ♀, idem, MT, SN, 22.ix–10.x.2015; 1 ♂, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 8.v.2011; 1 ♂, idem, SN, 27.iv.2014, leg. O. Varga; *Kharkiv Reg.*: 4 ♀, Krasnokutsk, SN, 4.vii.1992; 3 ♀, idem, SN, 11.vii.1992; *Kherson Reg.*: 1 ♀, Olek-

sandrivka, SN, 5.vi.1974, leg. Tolkanitz; 1 ♀, Black Sea BR, Solenoozernyi area, SN, 10.vi.1976, leg. A. Kotenko; *Kyiv Reg.*: 2 ♂, Kyiv, Feofania, SN, 12.v.1979, leg. Stebnovska; 2 ♀, Kyiv, Irpin, SN, 30.v.1979; 2 ♀, idem, SN, 8.ix.1979; 1 ♀, Kyiv, Kruglyk, SN, 3.vi.1979; 7 ♀, 24 ♂, ? Mamotynka, SN, 20.v.1979; 1 ♀, Kyiv, SN, 21.vii.1981, leg. A. Kotenko; 2 ♀, Kyiv, Novosilky, SN, 24.v.1984, leg. V. Tolkanitz; 1 ♀, Kyiv, Teremky, SN, 22.vii.2010, leg. A. Kotenko; *Odesa Reg.*: 1 ♀, Plavni, SN, 21.vi.1974, leg. V. Tolkanitz; 1 ♀, idem, SN, 11.v.1979, leg. A. Kotenko; 2 ♀, Dachne, SN, 23.vi.1977, leg. V. Tolkanitz; *Rivne Reg.*: 1 ♀, Kamyanytsya, SN, 4.x.1980; 1 ♀, 4 km E of Varash, SN, 24.vi.2000, leg. A. Kotenko; *Ternopil Reg.*: 1 ♀, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 2 ♂, Mukachevo, ex *Lymantria dispar*; 2 ♀, 17 ♂, Yasynya, ex *Malacosoma neustria*; 1 ♀, Khust, SN, 15.viii.1963; 28 ♂, Beregovo, SN, 7.vi.1963; Rakhiv Distr., 2 ♀, Vynogradiv Distr., Chorna Gora, SN, 5.vi.1969; 5 ♀, Uzhgorod, SN, 12.vi.1969; 1 ♀, Nevytske, SN, 2.vii.1986; 2 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012; 1 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, SN, 16.vi.2013; 3 ♂, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, MT, 20.iv–12.v.2015; 1 ♀, idem, MT, 31.v–13.vi.2015; 1 ♀, idem, MT, 14.vi–8.vii.2015, leg. O. Varga; *Volyn Reg.*: 1 ♀, Zalysytsya, W bank of Orikhove Lake, SN, 9.viii.1998; *Zaporizhzhya Reg.*: 1 ♂, Vasylivka, SN, 20.vii.1980, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Cherkasy, Chernigiv, Crimea, Ivano-Frankivsk, Kharkiv, Kherson, Kyiv, Odesa, Rivne, Ternopil, Transcarpathian, Volyn, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Gregopimpla malacosomae (Seyrig, 1927)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Kherson Reg.*: 1 ♀, Oleksandrivka, SN, 5.vi.1974; *Mykolaiv Reg.*: 1 ♀, 4 ♂, Maryivka, SN, 12.vii.1974, leg. V. Tolkanitz.

Distribution. Palaearctic; Ukraine: Kherson and Mykolaiv Regs.

Biology. PS. June–July.

Iania Matsumoto, 2016

Iania pictifrons (Thomson, 1877)

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Crimea*: 4 ♀, 1 km N of Angar Pass, SN, 11.vii.1979; *Kharkiv Reg.*: 1 ♂, Kupyansk Distr., Senkove, SN, 22.vii.1984; *Odesa Reg.*: 1 ♀, Danube BR, Lebedivka, SN, 8.x.1997; *Poltava Reg.*: 1 ♀, Myrgorod, Ostriv, SN, 9.vii.1983; 1 ♂, idem, SN, 29.viii.1984, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Crimea, Kharkiv, Ivano-Frankivsk, Odesa, Poltava, and Transcarpathian Regs.

Biology. CMF, CSF, EEFS, PS. July–October.

Iseropus Förster, 1869

Iseropus stercorator (Fabricius, 1793)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 1 ♀, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz; 1 ♂, Kaniv Distr., Lukovytsya, SN, 22.iv.1999; 1 ♀, idem, SN, 5.vi.1999, leg. A. Kotenko; *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 31.viii.2009; 1 ♀, idem, SN, 22.v.2010; 9 ♂, idem, SN, 9.v.2011; 1 ♀, idem, SN, 28.v.2012; 1 ♀, idem, SN, 31.v.2012; 1 ♀, Bogorodchany, SN, 10.v.2012; 1 ♀, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 27.vii.2012, leg. O. Varga; *Kharkiv Reg.*: 1 ♂, Kindrashivka, SN, 3.v.1978; *Kyiv Reg.*: 1 ♂, Kyiv, Irpin, SN, 30.iv.1977; 3 ♂, idem, SN, 30.v.1979, leg. A. Kotenko; 1 ♂, Kyiv, Darnytsya, SN, 7.vi.1978, leg. V. Tolkanitz; 2 ♂, Kyiv, Kruglyk, SN, 4.ix.1980; 1 ♂, idem, SN, 15.v.1982, leg. A. Kotenko; 1 ♂, idem, SN, 23.vii.1982, leg. V. Tolkanitz; 1 ♂, Kyiv, Novosilky, SN, 12.v.1985, leg. S. Zrashevsky; 1 ♂, Romashky, SN, 22.iv.1999; 2 ♂, Myronivka Distr., Velykiy Bukryn, SN, 1.vii.1999; 1 ♂, Kyiv, Pyrogiv, SN, 12.viii.2000; 1 ♀, Kyiv, SN, 19.ix.2004; 1 ♂, Kyiv,

Teremky, 2–8.v.2006, leg. A. Kotenko; *Lugansk Reg.*: 1 ♀, river Derkul bank, SN, 11.vii.1972, leg. V. Tolkanitz; 5 ♀, 1 ♂, Novo-Ilyenko bio-station, SN, 1–2.v.1978; 3 ♀, 8 ♂, Lugansk NR, Striltsivskiyi Steppe, SN, 7.v.1978; 1 ♀, Krynychne, SN, 8.v.1978; 1 ♂, idem, SN, 9.v.1978, leg. A. Kotenko; *Odesa Reg.*: 1 ♀, Reni, SN, 14.viii.1972, leg. V. Tolkanitz; *Poltava Reg.*: 1 ♂, Dykanka Distr., SN, 29.iv.1979; *Rivne Reg.*: 1 ♂, Varash, SN, 23.vi.2000, leg. A. Kotenko; 1 ♀, Klesiv forestry, SN, 14.vi.2008, leg. G. Nuzhna; *Ternopil Reg.*: 1 ♂, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 2 ♂, Beregovo, SN, 7.vi.1963; 1 ♂, Svalyava Distr., Polyana, 250 m, SN, 9.vii.1986; 1 ♂, Uklyn, SN, 10.vii.1986, leg. V. Tolkanitz; 1 ♂, Marmarosy, Kvasnyi, 900–1500 m, forest, SN, 20–21.vii.1995; *Volyn Reg.*: 2 ♀, Samary, SN, 9.viii.1998; 1 ♀, Zalysytsya, W bank of Orikhove Lake, SN, 9.viii.1998, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Cherkasy, Ivano-Frankivsk, Kharkiv, Kyiv, Lugansk, Odesa, Poltava, Rivne, Ternopil, Transcarpathian, and Volyn Regs.

Biology. CME, CEMF, EEFS, PS. May–September.

Liotryphon Ashmead, 1900

Liotryphon ascaniae (Rudow, 1883)

Records. New record.

Material examined. *Crimea*: 1 ♀, Kara-Dag, SN, 7.vii.1979, leg. V. Tolkanitz; 1 ♀, idem, SN, 8.vii.1979, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Vynogradiv Distr., Chorna Gora, SN, 5.vi.1969, leg. V. Tolkanitz.

Distribution. Palaearctic; Ukraine: Crimea and Transcarpathian Regs.

Biology. CSF, PMF. June–July.

Liotryphon caudatus (Ratzeburg, 1848)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Crimea*: 1 ♀, Svitla Polyana, SN, 4–5.vi.1978, leg. Pshebelska; *Donetsk Reg.*: 1 ♀, Donetsk, SN, 19.vi.1998, leg. V. Perepechaenko; *Ivano-Frankivsk Reg.*: 1 ♀, Pighirya, orchard, SN, 25.ix.2010; 1 ♀, idem, SN, 9.vi.2013; 1 ♀, idem, SN, 8.vi.2014; 1 ♀, Bogorodchany, SN, 31.vii.2014, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Krasnokutsk, SN, 23.viii.1982, leg. M. Narolsky; *Mykolaiv Reg.*: 7 ♂, Maryivka, SN, 12.vii.1974, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♂, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012; 11 ♂, idem, SN, 15.vi.2013, leg. O. Varga.

Distribution. Oceanic and Palaearctic Regs; Ukraine: Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Mykolaiv, and Transcarpathian Regs.

Biology. CME, CSF, EEFS, PS. June–September.

Liotryphon crassiseta (Thomson, 1877)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Ivano-Frankivsk Reg.*: 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 11.x.2013; 1 ♂, idem, SN, 27.iv.2014; 1 ♀, Pighirya, orchard, SN, 8.vi.2014; 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 24.v.2014; 1 ♀, Gorgany, m. Igrovets, 7.5 km SW of Stara Guta, 48.598571 N, 24.130344 E, 1500 m, subalpine zone, MT, 2–20.vii.2014, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Krasnokutsk, SN, 4.vii.1992; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 31.v.1982; 1 ♀, idem, SN, 11.ix.1991; 1 ♀, Kyiv, Fastiv, SN, 28.v.1984; 1 ♀, Kyiv, Teremky, SN, 30.ix.1986, leg. T. Nikitenko; 1 ♀, Kyiv, Bilychi, SN, 1.x.1995, leg. V. Ermolenko; 1 ♀, Kyiv, SN, 18.vi.2006, leg. A. Gesun; *Lviv Reg.*: Turka, SN, 19.vii.1969, leg. V. Tolkanitz; *Odesa Reg.*: 1 ♀, Balta, SN, 17.vii.1992; *Poltava Reg.*: 2 ♀, Myrgorod, Ostriv, SN, 29.viii.1984, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 15.vi.2013; 3 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, TT, 7.v–5.vi.2014; 1 ♀, idem, TT, 15.vii–10.viii.2014; 1 ♀, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, MT, 12–31.v.2015; 1 ♀, idem, MT, 31.v–13.vi.2015; 1 ♀, idem, MT, 6.viii–3.ix.2015, leg. O. Varga.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk, Kharkiv, Kyiv, Lviv, Odesa, Poltava, and Transcarpathian Regs.

Biology. CME, CEMF, EEFS, PS. April–October.

***Liotryphon punctulatus* (Ratzeburg, 1848)**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Crimea*: 1 ♀, Chatyr-Dag, SN, 4.vii.1976, leg. V. Tolkanitz; *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 12.v.2012; 1 ♀, idem, MT, 30.vi–21.vii.2015; 1 ♀, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 5.vi.2011; 1 ♀, Zhuraky, 48.739253 N, 24.503190 E, 410 m, mixed forest, SN, 23.v.2010, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Lyubotyn, SN, 10.vi.1992, leg. A. Kotenko; *Kyiv Reg.*: 1 ♀, Kyiv, Trakhtemyriv, SN, 4.x.2003, leg. I. Pavlusenko; 1 ♀, Kyiv, SN, 21.v.2003, leg. S. Simutnik; 1 ♀, idem, ex Pyralidae, 7.viii.2005; 1 ♀, idem, SN, 12.vi.2006; 1 ♀, idem, SN, 16.v.2007; 5 ♀, idem, SN, 27.v.2007; 3 ♀, idem, SN, 28.v.2007, leg. A. Gesun; *Transcarpathian Reg.*: 1 ♂, Rakhiv, SN, 1.viii.1994, 1 ♀, idem, SN, 2.viii.1994, leg. A. Kotenko; 1 ♀, Lazeshchyna, SN, vi.2010; 2 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, SN, 5.vi.2010; 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012; 1 ♀, idem, SN, 15.vi.2013; 1 ♀, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, SN, 14.v.2015, leg. O. Varga.

Distribution. Palaearctic; Ukraine: Crimea, Ivano-Frankivsk, Kharkiv, Kyiv, and Transcarpathian Regs.

Biology. CMF, CEMF, CSF. May–October.

***Liotryphon strobilellae* (Linnaeus, 1758)**

Records. Ukraine (Kasparyan & Khalaim, 2007).

Material examined. *Ivano-Frankivsk Reg.*: 2 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, ex *Picea abies* cones, 14–16.v.2013, leg. O. Varga; 1 ♀, Nadvirna Distr., Gorgany, Elmy, 15 km SW of Yaremche, 48.415462 N, 24.418878 E, 950 m, coniferous forest, SN, vi.2001, leg. A. Sirenko; 1 ♂, idem, SN, 7.vi.2009, leg. V. Shparyk.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. May–June.

***Megaetaira* Gauld & Dubois, 2006**

***Megaetaira madida* (Haliday, 1838)**

Records. Ukraine (Kasparyan, 1981), Transcarpathian Region (Varga, 2018b).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Transcarpathian Reg.

Biology. CMF. May–August.

***Oxyrrhexis* Förster, 1869**

***Oxyrrhexis carbonator* (Gravenhorst, 1807)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Volyn Reg.*: 1 ♀, Novi Chervyshcha, SN, 11.vii.2006, leg. A. Prokhorov.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk, Transcarpathian and Volyn Regs.

Biology. CMF, CEMF. May–August.

***Paraperithous* Haupt, 1954**

***Paraperithous gnathaulax* (Thomson, 1877)**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Ivano-Frankivsk Reg.*: ♀1, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 1.vii.2012, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Krasnokutsk, SN, 15.vi.1992, leg. A. Ko-

tenko; *Kherson Reg.*: 1 ♀, Askania-Nova Reserve, 1984, leg. V. Khomenko; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 12.vi.2006; 1 ♀, idem, SN, 14.vi.2006, leg. A. Gesun; *Transcarpathian Reg.*: 1 ♂, Rakhiv, SN, 29.vii.1994, 1 ♂, idem, SN, 31.vii.1994, leg. A. Kotenko; 1 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, TT, 7.v–5.vi.2014; 5 ♀, idem, TT, 5–29.vi.2014; 2 ♀, idem., TT, 29.vi–15.vii.2014; 3 ♂, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, MT, 17.vii–16.viii.2014; 1 ♂, idem, MT, 6.viii–3.ix.2015, leg. O. Varga.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk, Kharkiv, Kherson, and Transcarpathian Regs.

Biology. CMF, EEFS, PS. May–August.

Polysphincta Gravenhorst, 1829

Polysphincta boops Tschek, 1869

Records. Ukraine (Kasparyan, 1981), Transcarpathian Region (Varga, 2018b).

Material examined. *Kharkiv Reg.*: 1 ♂, Krasnokutsk, SN, 15.vi.1992, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Kharkiv and Transcarpathian Regs.

Biology. CMF, EEFS. June–August.

Polysphincta longa Kasparyan, 1976

Records. Ivano-Frankivsk Region (Varga, 2018b).

Material examined. Literature data only.

Distribution. Oriental and Palaearctic Regs; Ukraine: Ivano-Frankivsk Reg.

Biology. CMF. July and October.

Polysphincta rufipes Gravenhorst, 1829

Records. Ukraine (Kasparyan, 1981), Transcarpathian Region (Varga, 2018b).

Material examined. *Cherkasy Reg.*: 11 ♀, 2 ♂, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz; 1 ♀, Kaniv Distr., Lukovytsya, SN, 5.vi.1999, leg. A. Kotenko; *Odesa Reg.*: 1 ♀, Vylkove, SN, 31.v.1980, leg. M. Nesterov; 1 ♂, Tatarbunary, SN, 7.vi.1983; 1 ♀, Danube BR, Prymorske, SN, 12–14.ix.1995; *Poltava Reg.*: 1 ♀, Myrgorod, Ostriv, SN, 30.viii.1984, leg. A. Kotenko; *Volyn Reg.*: 1 ♀, Vetly, SN, 10.vi.1977, leg. V. Odnosum; 1 ♀, Zalytsya, E bank of Lake Orikhove, SN, 8.viii.1998, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Cherkasy, Odesa, Poltava, Transcarpathian, and Volyn Regs.

Biology. CMF, CEMF, EEFS, PS. May–September.

Polysphincta tuberosa Gravenhorst, 1829

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Kharkiv Reg.*: 2 ♀, Vovchansk Distr., Bochkove, SN, 26.vii.1984; *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 2.viii.1994, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk, Kharkiv and Transcarpathian Regs.

Biology. CMF, EEFS. June–October.

Polysphincta vexator Fitton, Shaw & Gauld, 1988 (Fig. 8)

Records. New record.

Material examined. *Kyiv Reg.*: 1 ♀, Bukivnya, SN, 24.vii.1977, leg. A. Kotenko.

Distribution. Europe; Ukraine: Kyiv Reg.

Biology. CEMF. July.



FIGURE 8. *Polysphincta vexator*, lateral view of female habitus.

Scambus Hartig, 1838

Scambus alpestrator Aubert, 1966 (Fig. 9d, i)

Records. New record.

Material examined. *Ivano-Frankivsk Reg.*: 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 8–9.vi.2012; 1 ♀, Gorgany, 9–10 km SW of Stara Guta, 48.559166 N, 24.196072 E, 800–900 m, coniferous forest, SN, 14.vii.2012; 1 ♀, Gorgany, m. Syvulya, 12–13 km SW of Stara Guta, 48.531433 N, 24.132609 E, 1425 m, subalpine zone, SN, 14.vii.2012; *Transcarpathian Reg.*: 2 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012, leg. O. Varga.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. June–July.

Scambus atrocoxalis (Ashmead, 1902) (Fig. 10)

Records. Zaporizhzhya Region (Kasparyan, 1981).

Material examined. *Kyiv Reg.*: 1 ♀, Kyiv, Bilychi, SN, 11.v.2004, leg. M. Nesterov.

Distribution. Nearctic and Western Palaearctic; Ukraine: Kyiv and Zaporizhzhya Regs.

Biology. CEMF, PS. May.

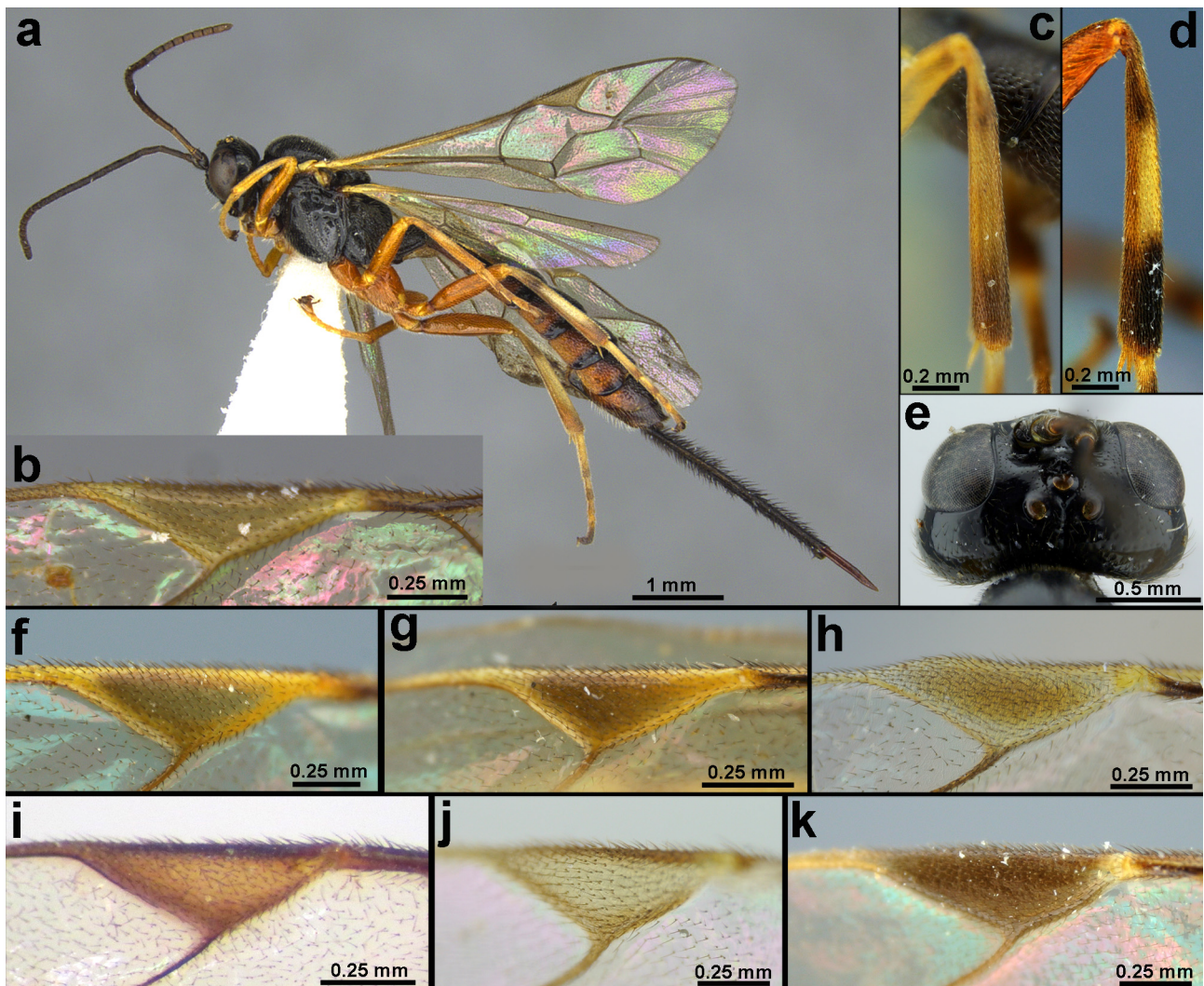


FIGURE 9. *Scambus* spp. a–b) *S. puniceus*, female: a) lateral view of habitus; b) pterostigma; c–d) lateral view of female hind leg: c) *S. eucosmidarum*, paratype; d) *S. alpestrator*, holotype; e) *S. sudeticus*, dorsal view of head; f–k) female pterostigma: f) *S. altalpinum*; g) *S. euphrantae*; h) *S. goniozator*, syntype female; i) *S. alpestrator*, holotype; j) *S. eucosmidarum*, paratype; k) *S. sagax*.

***Scambus brevicornis* (Gravenhorst, 1829)**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Crimea*: 1 ♀, Ai-Petri, SN, 17.vii.1969, leg. V. Dolin; 2 ♀, Kara-Dag, SN, 7.vi.1978, leg. Pshebelska; 1 ♀, kordon Asport, SN, 12.vi.1978, leg. A. Kotenko; 4 ♀, 1 ♂, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 1 ♀, Kazantyp, SN, 1.vii.1979; 1 ♀, Agarmysh, SN, 4.vii.1979; 3 ♀, Staryi Krym, SN, 4.vii.1979, leg. A. Kotenko, V. Tolkanitz; 1 ♀, Angar Pass, SN, 10.vii.1979; 2 ♀, kordon Suat, SN, 15.vii.1979; 2 ♀, Tankove, SN, 18.vii.1979; 1 ♀, Armyansk, SN, 16.v.1982, leg. A. Kotenko; 1 ♀, Dubky, ex *Tortrix viridana*, vi.1983, leg. N. Podmarkov; 1 ♀, Svitla Polyana, SN, 8.ix.1983, leg. V. Tolkanitz; 1 ♀, 4 km N of Opuk, SN, 16.vi.1998; 2 ♀, Opuk, SN, 17.vi.1998, leg. A. Kotenko; *Dnipro Reg.*: 1 ♀, Bogdanivka, SN, 14.viii.1978, leg. M. Nesterov; *Donetsk Reg.*: 35 ♀, 12 ♂, Khomutovskyi Steppe Reserve, SN, 20.iv.1978; 4 ♀, 1 ♂, idem, SN, 28.iv.1978; 1 ♀, idem, SN, 24.vi.1979; 2 ♀, idem, SN, 25.vi.1979, leg. A. Kotenko; 2 ♀, Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983, leg. V. Tolkanitz; 1 ♀, Kryva Luka, SN, 21.vi.1983, leg. A. Kotenko; *Ivano-Frankivsk Reg.*: 1 ♂, Nadvirna Distr., Chornogora, Pozhezhevska, subalpine zone, SN, 26.vi.1975, leg. Ermolemko; 1 ♀, Volosiv, vii.2010, leg. N. Shakhova; 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 5.ix.2011, leg. O. Varga; *Kherson Reg.*: 1 ♂, Black Sea BR, ex *Lobestia euphorbiana* pupa, 14.vi.1966; 1 ♀, idem, 18.vi.1966, leg. Yu. Kostyuk; 1 ♀, idem, SN, 1–2.vii.1979, leg. A. Kotenko; 1 ♀, idem, SN, 17.viii.1982, leg. O. Radchenko; 1 ♀,



FIGURE 10. *Scambus atrocoxalis*. a) lateral view of female habitus; b) lateral view of the ovipositor tip.

Askania-Nova, SN, 28.v.1974; 9 ♀, Oleksandrivka, SN, 18.vi.1975, leg. V. Tolkanitz; 1 ♀, Black Sea BR, Sole-noozerniy area, SN, 10.vi.1976; 1 ♀, idem, SN, 28.v.1978; 12 ♀, 5 ♂, Black Sea BR, Ivano-Rybalchanskyi area, SN, 21–22.iv.1978; 2 ♀, idem, SN, 10.vi.1983; 1 ♀, idem, SN, 13–14.viii.1978; 3 ♀, 2 ♂, idem, SN, 22.viii.1978; 2 ♀, 2 ♂, idem, SN, 8.ix.1978; 1 ♀, idem, SN, 11.vi.1980; 2 ♀, idem, SN, 14.vii.1981; 1 ♀, SN, 5.v.1982; 1 ♀, idem, SN, 27.v.1982; 1 ♀, SN, 11.vi.1982; 2 ♀, 1 ♂, Burkuty, SN, 26.vi.1978; 4 ♀, 2 ♂, Skadovsk Distr., Dzharylgach, SN, 28–29.vi.1978; 3 ♀, Tendrivska Spit, SN, 9.viii.1978; 2 ♀, Gola Prystan, SN, 9.viii.1978; 1 ♀, idem, SN, 10.viii.1978; 6 ♀, Genichesk Distr., Byryuchyi, SN, 7.vi.1979; 3 ♀, 25–30 km of Genichesk, SN, 29.vi.1979;

1 ♀, Gopri, SN, 3.v.1982, leg. A. Kotenko; 1 ♀, Skadovsk Distr., Dzharylgach, SN, 2.ix.1983, leg. V. Tolkanitz; 1 ♀, Radensk, SN, 2.vi.1998; *Kyiv Reg.*: 1 ♀, Kyiv, Khodosivka, SN, 14.viii.1980; 1 ♀, idem, SN, 21.viii.1983, leg. A. Kotenko; 1 ♀, idem, SN, 26.vii.2004, leg. M. Nesterov; 1 ♀, Kyiv, Kruglyk, SN, 21.ix.1980; *Lugansk Reg.*: 8 ♀, 4 ♂, Lugansk NR, Striltsivskiy Steppe, SN, 7.v.1978, leg. A. Kotenko; 1 ♀, idem, SN, 4.v.1983; *Lviv Reg.*: 1 ♀, Turka, SN, 23.vi.1969, leg. V. Tolkanitz; *Odesa Reg.*: 1 ♀, Vylkove, SN, 4.vii.1997, leg. D. Kasparyan; *Poltava Reg.*: 1 ♀, Bairak, SN, 23.vi.1982; *Rivne Reg.*: 1 ♀, Varash, SN, 26.v.2000, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Yasynya, SN, 8.vii.1963; 1 ♂, Khust, SN, 11.viii.1963, leg. V. Ermolenko; 6 ♀, 2 ♂, Svalyava Distr., Polyana, abandoned apple orchard, SN, 12.vii.1986, leg. V. Tolkanitz; 1 ♂, Rakhiv Distr., Chornogora, 1500–1600 m, coniferous forest, SN, 5.viii.1994; 1 ♀, Chornogora, Bilyi, coniferous forest, SN, 8.viii.1994; 2 ♀, 1 ♂, idem, SN, 9.viii.1994, leg. A. Kotenko; 1 ♀, Chorna Tysa, SN, 19.vii.1998, leg. V. Fursov; 1 ♂, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 15.vi.2013; 2 ♂, Marmarosy, 11–12 km SE of Dilove, 47.925407 N, 24.311800 E, 1550 m, subalpine zone, m. Pip-Ivan, SN, 6–9.viii.2012; 1 ♂, idem, m. Mika-Mare, SN, 10.viii.2012, leg. O. Varga; *Volyn Reg.*: 1 ♀, Kovel Distr., Pochapy, SN, 3–4.viii.1998, leg. A. Kotenko; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka Distr., Lysa Gora, SN, 11.vii.1974; 2 ♀, idem, SN, 2.v.1978, leg. V. Tolkanitz; 4 ♀, Obytichna Spit, SN, 27.vi.1979; 1 ♀, Vasylivka, SN, 10.vii.1981, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Crimea, Dnipro, Donetsk, Ivano-Frankivsk, Kherson, Kyiv, Lugansk, Lviv, Odesa, Poltava, Rivne, Transcarpathian, Volyn, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–September.

Scambus buolianae (Hartig, 1838)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv, SN, 4.viii.1970, leg. V. Tolkanitz; 1 ♀, Kaniv NR, SN, 15.vii.1977, leg. I. Bogdanovych; *Crimea*: 1 ♂, kordon Asport, SN, 28.vi.1976; 1 ♂, Angar Pass, SN, 11.vii.1979 leg. A. Kotenko; *Donetsk Reg.*: 1 ♂, Blagodatne, SN, 11.vi.1975, leg. V. Tolkanitz; *Ivano-Frankivsk Reg.*: 1 ♂, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 1.viii.2009; 2 ♀, idem, SN, 30.viii.2009; 3 ♀, idem, SN, 31.viii.2009; 1 ♂, idem, SN, 29.iv.2010; 1 ♀, idem, SN, 8.v.2010; 1 ♀, idem, SN, 9.viii.2010; 1 ♀, idem, SN, 9.v.2011; 5 ♀, 1 ♂, idem, SN, 3.ix.2011; 1 ♀, 1 ♂, idem, SN, 4.ix.2011; 3 ♀, idem, SN, 5.ix.2011; 2 ♀, idem, SN, 7.ix.2011; 3 ♀, 1 ♂, idem, SN, 14.ix.2011; 1 ♀, idem, SN, 22.ix.2011; 2 ♂, idem, MT, 29.vii–15.viii.2014; 1 ♀, idem, MT, 31.viii–14.ix.2014; 2 ♀, idem, MT, 31.viii–22.ix.2015; 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 16.ix.2011; 10 ♂, idem, SN, 26–27.iv.2012; 1 ♂, idem, SN, 30.iv.2012; 2 ♂, idem, SN, 27.iv.2014; 1 ♀, idem, SN, 12.ix.2014; 1 ♀, 1 ♂, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 14.ix.2011; 1 ♀, Manyava, SN, 28.vi.2009; 1 ♀, Ivano-Frankivsk, Vovchynets, 48.961303 N, 24.750302 E, 280 m, mixed forest, SN, 29.viii.2009; 2 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 8–9.vi.2012, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Efremivka forestry, ex *Archips rosana* larva, 21.vi.1982; 1 ♀, 1 ♂, Krasnokutsk, SN, 11.vii.1992; 1 ♀, idem, SN, 3–4.vi.1993, leg. A. Kotenko; *Khmelnitskyi Reg.*: 3 ♀, Shydlyvtsi, SN, 28.vii.1988, leg. V. Tolkanitz; 1 ♀, Bilotyn, SN, 12.vi.1999; 1 ♀, Netishyn, SN, 29.vii.1999, leg. A. Kotenko; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 18.viii.1974, leg. V. Tolkanitz; 1 ♀, idem, SN, 22.v.1977; 2 ♀, idem, SN, 7.viii.1977; 1 ♀, idem, SN, 21.vii.1981; 1 ♀, idem, SN, 11.ix.1991; 1 ♀, Klavdievo-Tarasove, SN, 17.vii.1977; 1 ♀, Kyiv, Irpin, SN, 7.viii.1977, leg. A. Kotenko; 1 ♀, Kyiv, Darnytsya, SN, 14.viii.1977, leg. V. Odnosum; 2 ♀, Romanivka, SN, 21.viii.1977; 2 ♀, 1 ♂, Lisnyky, SN, 28.viii.1977; 1 ♀, Khodosivka, SN, 14.viii.1980; 1 ♀, Kyiv, Teremky, SN, 19.vii.1980; 2 ♂, idem, SN, 25–27.vi.2010; 1 ♀, Motovylivka, SN, 14.vii.1981; 1 ♀, Kyiv, Kruglyk, SN, 5.ix.1981, leg. A. Kotenko; 1 ♀, idem., vi.1984, leg. I. Plyushch; 2 ♀, 1 ♂, Kyiv, Novosilky, SN, 4.vii.1984; 2 ♀, idem, SN, 6.ix.1984; 1 ♀, Kyiv, Gorbovychi, SN, 7–8.viii.1988; 2 ♀, Myronivka Distr., Velykiy Bukryn, SN, 1.vii.1999; 1 ♀, Pyrogiv, SN, 12.viii.2000, leg. A. Kotenko; 1 ♀, Kyiv, Bilychi, SN, 4.ix.2005, leg. M. Nesterov; *Odesa Reg.*: 1 ♀, Savran, SN, 17.vii.1988, leg. V. Tolkanitz; *Poltava Reg.*: 1 ♂, Myrgorod, SN, 9.viii.1982; 1 ♀, idem, SN, 29.viii.1984; 1 ♂, idem, SN, 31.viii.1985, leg. A. Kotenko; *Ternopil Reg.*: 3 ♀, Ustya, SN, 24.vii.1988; 1 ♀, 3 ♂, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 11.vi.1953, leg. N. Telenga; 1 ♀, 2 ♂, idem, SN, 29.vii.1994; 1 ♂, idem, SN, 23.vii.1995, leg. A. Kotenko; 1 ♀, Mizhgirya, SN, 14.viii.1963; 2 ♀, Kukul, SN, 24.vii.1972; 4 ♀, idem, SN, 25.vii.1972, leg. V. Tolkanitz; 1 ♀, Zubrivka, SN, 30.vi.1975, leg. V. Ermolenko; 1 ♀, Chornogora, Bilyi, coniferous forest, SN, 6.viii.1994; 1 ♀, Mala Ugolka, beech forest, SN, 26–27.vii.1995, leg. A. Kotenko; *Vinnitsya Reg.*: 1 ♀, Pultivtsi, SN, 30.vi.1982, leg. Nazarov; 1 ♀, Vinnitsya ? forestry, SN, 12.vii.1988,

leg. V. Tolkanitz; *Volyn Reg.*: 1 ♀, Zalusytsya, Zasvyate Lake, SN, 10.viii.1998; 1 ♀, Bile Lake, SN, 14.viii.1998; 1 ♀, Kovel Distr., 1.5 km of Nevytske Lake, SN, 17.viii.1998; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka, SN, 24.viii.1972; 1 ♂, idem, SN, 13–14.vii.1974; 1 ♂, 2–3 km S of Vasylivka, SN, 9.vii.1980, leg. A. Kotenko; 1 ♂, Pidhirne, SN, 5.vii.1980, leg. V. Tolkanitz; *Zhytomyr Reg.*: 2 ♀, Ozera, SN, 2.viii.1980, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Khmelnytskyi, Kyiv, Odesa, Poltava, Ternopil, Transcarpathian, Vinnytsya, Volyn, Zaporizhzhya, and Zhytomyr Regs.

Biology. CMF, CEMF, CSF, EEFS, PS. April–September.

Scambus calobatus (Gravenhorst, 1829)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Crimea*: 1 ♂, Blagodatne, SN, 11.vi.1975; 1 ♀, 1 ♂, Izobilne, SN, 21.vi.1976, leg. V. Tolkanitz; 1 ♀, Lavrove, ex *Tortrix viridana*, vi.1983; 1 ♀, Dubky, ex *Tortrix viridana*, vi.1983; 1 ♂, idem, 11.vi.1983; 1 ♂, idem, vi.1984; 1 ♀, 2 ♂, Nyzhnya Kutuzivka, ex *Tortrix viridana*, vi.1983, leg. N. Podmarkov; 1 ♂, Kara-Dag, SN, 19.iv.1986, leg. V. Tolkanitz; *Ivano-Frankivsk Reg.*: 2 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 16.ix.2011; 5 ♀, 2 ♂, idem, SN, 23.ix.2012; 1 ♀, idem, SN, 8.x.2013; 1 ♀, idem, ex *Quercus robur* acorns, 22.x.2013; 2 ♀, idem, 24.x.2013; 5 ♀, 1 ♂, idem, 26.x.2013; 2 ♀, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 2.ix.2011, leg. O. Varga; *Kherson Reg.*: 1 ♀, Black Sea BR, Solenoozerniy area, SN, 21.vii.1974; 1 ♀, Black Sea BR, Dovgyi Island, SN, 18.viii.1978; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 8.ix.1978; 1 ♀, 1 ♂, idem, SN, 9.vi.1998, leg. A. Kotenko; 1 ♀, Black Sea BR, ex *Tortrix virida* pupa, 12.vi.1991; 1 ♂, idem, 14.vi.1991, leg. E. Valentyuk; *Kyiv Reg.*: 1 ♀, 1 ♂, Kyiv, Darnytsya, SN, 6.v.1973, leg. V. Ermolenko; 1 ♀, Lisnyky, SN, 28.viii.1977; 1 ♀, Kyiv, Irpin, SN, 8.ix.1979; 1 ♂, Kyiv, Teremky, SN, 31.v.1980, leg. A. Kotenko; 1 ♀, idem, ex *Spilonota ocellana*, 5.vii.1991, leg. E. Valentyuk; 1 ♂, Kyiv, Novosilky, SN, 26.vi.1984; 1 ♂, idem, SN, 4.vii.1984, leg. A. Kotenko; 1 ♀, idem, SN, 12.v.1985, leg. S. Zrashevsky; 1 ♂, Kyiv, Bilychi, SN, 27.v.2004, leg. M. Nesterov; *Lugansk Reg.*: 1 ♂, Krynychne, SN, 9.v.1978; *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 15–16.vii.1995, leg. A. Kotenko; 1 ♂, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 6.vi.2014, leg. O. Varga. Spring form: *Scambus planatus* (Hartig, 1838). *Cherkasy Reg.*: 1 ♀, Buchak, SN, 3.vi.1973, leg. V. Tolkanitz; *Crimea*: 1 ♀, Izobilne, SN, 26.vi.1976, leg. A. Kotenko; 1 ♀, Nikita Botanical Garden, SN, 9.vi.1989, leg. A. Tsybulsky; 2 ♀, Schaslyve, SN, 11.vii.1990; *Kherson Reg.*: 1 ♀, Askania-Nova, SN, 27.v.1974; 1 ♀, Genichesk Distr., Byryuchy, SN, 25–26.viii.1983, leg. V. Tolkanitz; *Mykolaiv Reg.*: 1 ♀, Pervomaisk Distr., Kuriphyne, SN, 23.v.1980, leg. M. Nesterov; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka, SN, 24.viii.1972; 1 ♀, idem, SN, 23.viii.1974, leg. A. Kotenko; 1 ♂, idem, SN, 2.v.1978, leg. V. Tolkanitz.

Distribution. Holarctic; Ukraine: Cherkasy, Crimea, Ivano-Frankivsk, Kherson, Kyiv, Lugansk, Mykolaiv, Transcarpathian, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, EEFS, PS. April–October.

Scambus capitator Aubert, 1965 (Fig. 11)

Records. New record.

Material examined. *Transcarpathian Reg.*: 2 ♀, Chornogora, Bilyi, 1100–1200 m, coniferous forest, SN, 6.viii.1994; 1 ♀, Chornogora, slopes of m. Goverla, 1600–1800 m, SN, 8.viii.1994, leg. A. Kotenko; 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 9.vii.2011, leg. O. Varga.

Distribution. Palaearctic; Ukraine: Transcarpathian Reg.

Biology. CMF. July–August.

Scambus cincticarpus (Kriechbaumer, 1895)

Records. New record.

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv Distr., Lukovytsya, SN, 4.vii.1999; *Chernigiv Reg.*: 1 ♀, Khaenky, SN, 3.viii.2007; *Donetsk Reg.*: 1 ♀, Khomutovskyi Steppe Reserve, SN, 25.vi.1979, leg. A. Kotenko; 1 ♀, idem, SN, 31.v.1983, leg. V. Tolkanitz; *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 29.iv.2010; 1 ♀, idem, SN, 8.v.2010; 1 ♀, 1 ♂, idem, SN, 5.ix.2011; 1 ♀, idem, MT, 8–14.vi.2015; 1 ♀, idem, MT, 31.viii–22.ix.2015; 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 2.vi.2013, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Krasnokutsk, SN, 3.vi.1993; 1 ♀, idem, SN, 5.vi.1993, leg. V. Tolkanitz; *Kherson Reg.*: 1 ♀, Burkuty, SN, 24.vi.1978; 1 ♀, Black Sea BR, Ivano-



FIGURE 11. *Scambus capitator*. a) lateral view of female habitus; b) lateral view of the ovipositor tip.

Rybalchanskyi area, SN, 11.vi.1982; *Kyiv Reg.*: 1 ♀, Khodosivka, SN, 14.viii.1980, leg. A. Kotenko; 1 ♀, idem, SN, 17.v.2004, leg. M. Nesterov; 2 ♀, Kyiv, SN, 19.ix.2004, leg. A. Kotenko; 3 ♀, Kyiv, Kruglyk, SN, 31.viii.2010, leg. G. Nuzhna; 1 ♀, 1 ♂, Kyiv, Karavaevi Dachi, ex *Artemisia vulgaris*, collected 7.v.2005, reared 15.v.2005, leg. A. Gumosky; *Lugansk Reg.*: 1 ♀, Novo-Illyenko bio-station, SN, 2.v.1978; *Odesa Reg.*: 1 ♀, Lisne, SN, 7.vii.1978; 2 ♀, Plavni, SN, 11.v.1979; 1 ♀, Danube BR, Prymorske, SN, 16.ix.1995; 2 ♀, Danube BR, 5 km E of Vylkove, SN, 19–20.ix.1995, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012, leg. O. Varga; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka

Distr., Lysa Gora, SN, 7.v.1978; 2 ♀, Tambovka, SN, 8.v.1978; 2 ♀, idem, SN, 7–8.vii.1981; 1 ♀, Staroberdyanskyi Reserve, SN, 10.v.1978; 1 ♀, idem, SN, 7.vii.1981; 1 ♀, Pidhirne, SN, 18.vi.1975; 1 ♀, Vasylivka, SN, 3.vii.1981, leg. V. Tolkanitz.

Distribution. Western Palaearctic; Ukraine: Cherkasy, Chernigiv, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Kyiv, Lugansk, Odesa, Transcarpathian, and Zaporizhzhya Regs.

Biology. CMF, CEMF, EEFS, PS. April–September.

Scambus elegans (Woldstedt, 1877)

Records. Crimea (Kasparyan, 1981).

Material examined. *Crimea*: 1 ♀, Laspi, SN, 22.vii.1979, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Svydovets, m. Blyznytsya, SN, 25.vi.1974, leg. V. Tolkanitz.

Distribution. Western Palaearctic; Ukraine: Crimea and Transcarpathian Regs.

Biology. CMF, CSF. June–July.

Scambus euphrantae (Schmiedeknecht, 1914) (Figs 9g, 12)

Records. New record.

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 14.ix.1988, leg. V. Tolkanitz; *Crimea*: 1 ♀, kordon Suat, SN, 15.vii.1979, leg. A. Kotenko; 1 ♀, Schaslyve, SN, 10–11.vii.1990, leg. V. Tolkanitz; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 14.ix.2010, leg. A. Kotenko.

Distribution. Western Palaearctic; Ukraine: Cherkasy, Crimea and Kyiv Regs.

Biology. CEMF, CSF, EEFS. July–September.

Scambus foliae (Cushman, 1938)

Records. New record.

Material examined. *Kyiv Reg.*: 1 ♂, Kyiv, Novosilky, SN, 14.vi.1984, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Kyiv Reg.

Biology. CEMF. June.

Scambus gallicerator Kasparyan, 1974 (Fig. 13)

Records. New record.

Material examined. *Donetsk Reg.*: 1 ♀, Kamyani Mohyly Reserve, SN, 25–27.v.2009, leg. S. Simutnik.

Distribution. Palaearctic; Ukraine: Donetsk Reg.

Biology. PS. May.

Scambus goniozator Aubert, 1982 (Fig. 9h)

Records. New record.

Material examined. *Crimea*: 1 ♀, Lavanda, SN, 1.v.2004, leg. M. Nesterov.

Distribution. Europe (only France); Ukraine: Crimea.

Biology. CSF. May.

Scambus inanis (Schränk, 1802)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 26.v.1972; 1 ♀, idem, SN, 12.v.1977; 1 ♀, idem, SN, 14.ix.1988, leg. V. Tolkanitz; *Crimea*: 2 ♀, Laspi, SN, 22.vii.1973; 1 ♀, kordon Asport, SN, 29.vi.1976, leg. A. Kotenko; 1 ♀, Svitla Polyana, SN, 3.vii.1976; 1 ♀, idem, SN, 8.ix.1983, leg. V. Tolkanitz; 1 ♀, kordon Suat, SN, 15.vii.1979, leg. A. Kotenko; 2 ♀, Schaslyve, SN, 10–11.vii.1990, leg. V. Tolkanitz; *Donetsk Reg.*: 1 ♀, 4 ♂, Kholmotovskiyi Steppe Reserve, SN, 20.iv.1978; 2 ♀, idem, SN, 24.vi.1979; 1 ♀, idem, SN, 25.vi.1979, leg. A. Kotenko; 2 ♀, Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983; 1 ♀, Kamyani Mohyly Reserve, SN, 16.vi.1995, leg. V. Tolkanitz; *Ivano-Frankivsk Reg.*: 3 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 17.v.2009; 1 ♀, idem, SN, 14.ix.2011; 1 ♀, idem, SN, 22.ix.2011; 1 ♂, idem, SN, 23.iv.2012; 1 ♀, idem, SN, 31.v.2012; 2 ♀, idem, SN, 1.v.2013; 1 ♀, idem, SN, 17.viii.2013; 1 ♀, idem, SN, 14.v.2014; 1 ♀, idem, MT, 30.vi–21.vii.2015; 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest,



FIGURE 12. *Scambus euphrantae*. a) dorsal view of female habitus; b) lateral view of female habitus.

SN, 29.vi.2009; 1 ♀, idem, SN, 23.vi.2011; 2 ♀, 60 ♂, idem, SN, 26–27.iv.2012; 3 ♀, idem, SN, 8.x.2013; 3 ♀, idem, SN, 11.x.2013; 1 ♀, idem, SN, 27.iv.2014; 1 ♀, Perehinske, SN, 10.vii.2009; 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 8–9.vi.2012; 1 ♀, idem, SN, 19–20.x.2012; 1 ♀, idem, SN, 20.vi.2013, leg. O. Varga; 1 ♀, Nadvirna Distr., Gorgany, Elmy, 15 km SW of Yaremche, 48.415462 N, 24.418878 E, 950 m, coniferous forest, SN, 12.vii.2008, leg. A. Sirenko; *Kharkiv Reg.*: 1 ♀, Zavody, SN, 9.v.1980, leg. A. Kotenko; 2 ♀, Ivanivske, ex *Tortrix viridana* larva, 20.v.1983; 1 ♂, idem, 22.vi.1983, leg. S. Gamayunova; 1 ♀, Efremivka, SN, 27.vii.1984; 3 ♀, Krasnokutsk, SN, 11.vii.1992, leg. A. Kotenko; *Kherson Reg.*: 1 ♀, Oleksandrivka, SN, 18.vi.1975, leg. V. Tolkanitz; 3 ♀, Burkuty, SN, 23.vi.1978; 1 ♀, idem, SN, 24.vi.1978; 1 ♀, Byryuchyi, SN, 7.vi.1979, leg. A. Kotenko; 1 ♀, 1 ♂, Black Sea BR, Ivano-Rybalchanskyi area, ex *Tortrix viridana* larva, 1.vi.1983; 1 ♂, idem, 6.vi.1982; 1 ♂, idem, 3.vi.1983; 1 ♀, idem, 2.vi.1984; 2 ♀, idem, 3.vi.1984; 1 ♀, idem, 5.vi.1984, leg. L. Seryogina; 1 ♀, idem, SN, 9.vi.1998, leg. A. Kotenko; 1 ♂, Bekhtery, ex *Tortrix viridana* larva,



FIGURE 13. *Scambus gallicerator*, lateral view of female habitus.

19.v.1984; 2 ♀, idem, 19.vi.1984, leg. L. Seryogina; *Khmelnyskyi Reg.*: 1 ♀, Zaluchchya, SN, 29.vii.1988, leg. V. Tolkanitz; 1 ♀, Netishyn, SN, 29.vii.1999; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 22.v.1977, leg. A. Kotenko; 1 ♀, 1 ♂, idem, apple orchard, ex *Ancylis selenana*, SN, 11.x.1984, leg. A. Tsybulsky; 1 ♀, idem, SN, 19.ix.2004; 1 ♀, Lisnyky, SN, 28.viii.1977, leg. A. Kotenko; 2 ♀, Kyiv, Novosilky, ex *Antonomus pomorum*, 5.vi.1979, leg. V. Loshytsky; 1 ♂, idem, SN, 7.vi.1982; 1 ♂, idem, SN, 14.vi.1982, leg. S. Sviridov; 2 ♀, idem, ex *Tortrix viridana* larva, 5.vi.1984, leg. L. Seryogina; 1 ♀, Kyiv, Bilychi, SN, 10.vi.1979, leg. V. Ermolenko; 2 ♀, 80 km N of Kyiv, SN, 15.x.1979; 1 ♀, Kyiv, Teremky, SN, 31.v.1980, leg. A. Kotenko; 1 ♀, idem, ex *Spilonota ocellana* pupa, 1.vii.1991, leg. E. Valentyuk; 1 ♀, idem, SN, 1.vii.2010; 2 ♀, Kyiv, Kruglyk, SN, 22.viii.1980; 1 ♀, idem, SN, 4.ix.1980; 1 ♀, Motovylyvka, SN, 14.vii.1981; 1 ♀, Skybyn, SN, 18.vii.1982, leg. A. Kotenko; 1 ♀, Kyiv, Feofania, SN, 18.v.1983, leg. V. Tolkanitz; 1 ♀, Gorbovychi, SN, 7–8.vii.1988; 5 ♀, Kozhanka, SN, 24.vii.1999; *Lugansk Reg.*: 2 ♀, Anratsyt, SN, 8.vi.1975; *Lviv Reg.*: 1 ♀, Turka, SN, 18.vi.1969, leg. V. Tolkanitz; *Mykolaiv Reg.*: 1 ♀, Kuripchyne, SN, 19.vii.1981, leg. I. Bogdanovych; *Odesa Reg.*: 1 ♀, Tatarbunary, SN, 7.vi.1983, leg. A. Kotenko; 1 ♀, Staromanzyskyi Reserve, ex *Tor-*

trix viridana larva, 25.vi.1983, leg. O. Radchenko; 1 ♂, idem, ex *Tortrix viridana* larva, 21.vi.1983; *Poltava Reg.*: 3 ♀, Myrgorod, Ostriv, SN, 29.viii.1984, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Nove Selo, SN, 31.v.1963; 1 ♀, Yasynya, SN, 8.vii.1963; 1 ♀, Khust, SN, 11.viii.1963; 1 ♀, Svydovets, m. Blyznytysya, SN, 25.vi.1974; 1 ♀, Svalyava Distr., Polyana, SN, 27–28.vi.1986, leg. V. Tolkanitz; 1 ♀, Rakhiv, SN, 1.viii.1994; 2 ♀, idem, SN, 2.viii.1994; 2 ♀, Chornogora, Bilyi, coniferous forest, SN, 6.viii.1994; 1 ♀, Marmarosy, Kvasnyi, SN, 19.vii.1995; 2 ♀, Mala Ugolka, SN, 30.vii.1995, leg. A. Kotenko; 1 ♀, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, MT, 12–31.v.2015; 1 ♀, idem, MT, 31.v–13.vi.2015; 2 ♀, idem, MT, 6.viii–3.ix.2015; 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 9.vii.2011; 2 ♀, idem, SN, 16–18.vi.2012; 2 ♀, Chornogora, Dzhordzheva Preluka, 3 km NE of Kvasy, 48.173893 N, 24.311608 E, 1050 m, beech forest, SN, 15.vi.2012; 1 ♀, Chornogora, clipes of m. Petros, 1700 m, SN, 17.vi.2012; 1 ♀, Marmarosy, 11–12 km SE of Dilove, 47.925407 N, 24.311800 E, 1550 m, subalpine zone, m. Pip-Ivan, SN, 6–9.viii.2012; 1 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, SN, 16.vi.2013; 1 ♀, idem, SN, 24.viii.2013, leg. O. Varga; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka, SN, 13–14.vii.1974; 1 ♀, idem, SN, 2.v.1978, leg. V. Tolkanitz; 1 ♀, idem, SN, 3.vii.1981, leg. A. Kotenko; 2 ♀, Staroberdyanskyi Reserve, SN, 7.vii.1981, leg. V. Tolkanitz; 3 ♀, Melitopol, orchard, ex *Archips rosana*, 10.vi.1991, leg. N. Chepurnaya; *Zhytomyr Reg.*: 2 ♀, Zhurzhelychi, SN, 15.ix.1978, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Lugansk, Lviv, Mykolaiv, Odesa, Poltava, Transcarpathian, Zaporizhzhya, and Zhytomyr Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Scambus nigricans (Thomson, 1877)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Cherkasy Reg.*: 1 ♀, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz; 1 ♀, Kaniv Distr., Lukovytsya, SN, 5.vi.1999; 4 ♀, 3.6 km NE of Trakhtemyriv, Monastyrok, SN, 3.vii.1999; 1 ♀, idem, SN, 14.v.2000, leg. A. Kotenko; 1 ♀, Kaniv NR, SN, 21.v.1972; 1 ♂, idem, SN, 10.vii.1975, leg. V. Tolkanitz; 1 ♂, idem, SN, 12.v.1977; 1 ♀, idem, SN, 14.ix.1988, leg. O. Chervonenko; *Chernigiv Reg.*: 1 ♀, Vulivka, SN, 7.viii.1989, leg. P. Sheshurak; *Crimea*: 1 ♀, 1 ♂, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 1 ♀, Kazantyp, SN, 1.vii.1979; 1 ♀, 1 ♂, 1 km N of Angar Pass, SN, 11.vii.1979; 1 ♀, 7 km N of Alushta, SN, 17.vii.1979; 2 ♀, 2 ♂, 5 km N of Olenivka, SN, 25.vii.1979; 3 ♂, Olenivka, SN, 25.vii.1979, leg. A. Kotenko; *Donetsk Reg.*: 1 ♀, Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983, leg. V. Tolkanitz; 1 ♀, 1 ♂, Kamyani Mohyly Reserve, SN, 15.viii.1982, leg. S. Volovnik; 1 ♂, idem, SN, 14.vi.1995, leg. V. Tolkanitz; 1 ♂, idem, Nazariivka, SN, 14.vi.1983; 1 ♀, 1 ♂, Khomutovskyi Steppe Reserve, SN, 20.iv.1978; 1 ♀, 6 ♂, idem, SN, 28.iv.1978; 3 ♀, 1 ♂, idem, SN, 24.vi.1979; 1 ♀, 1 ♂, idem, SN, 25.vi.1979; 1 ♀, idem, SN, 30.v.2009, leg. A. Kotenko; 1 ♀, Svyatogirsk, SN, 14.v.1998, leg. V. Perepechaenko; *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 17.v.2009; 1 ♀, idem, SN, 16.ix.2009; 1 ♀, idem, SN, 4.vi.2010; 1 ♀, idem, SN, 28.vi.2010; 1 ♀, idem, SN, 2.viii.2010; 1 ♀, idem, SN, 7.vii.2011; 1 ♀, idem, SN, 3.viii.2011; 1 ♀, idem, SN, 17.viii.2013; 1 ♀, idem, MT, 10–28.iv.2014; 1 ♀, idem, SN, 26.v.2014; 1 ♀, idem, MT, 29.vii–15.viii.2014; 1 ♀, idem, MT, 15–31.viii.2014; 1 ♀, idem, MT, 22.v–8.vi.2015; 3 ♀, idem, MT, 30.vi–21.vii.2015; 1 ♀, idem, MT, 21.vii–10.viii.2015; 1 ♀, idem, MT, 31.viii–22.ix.2015; 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 16.ix.2011; 1 ♀, idem, SN, 26–27.iv.2012; 1 ♀, 2 ♂, idem, SN, 30.iv.2012; 2 ♀, idem, SN, 8.x.2013; 1 ♀, idem, SN, 27.iv.2014; 1 ♀, idem, SN, 2.ix.2014; 1 ♀, 1 ♂, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 14.ix.2011; 1 ♀, Bogorodchany, SN, 14.vii.2010; 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 18.vii.2015; 1 ♀, Ivano-Frankivsk, Vovchynets, 48.961303 N, 24.750302 E, 280 m, mixed forest, SN, 27.v.2009, leg. O. Varga; 1 ♀, Nadvirna Distr., Volosiv, SN, v.2004, leg. ? A. Sirenko; *Kharkiv Reg.*: 1 ♂, Krasnokutsk, SN, 11.vi.1992; 1 ♀, idem, SN, 15.vi.1992; 2 ♂, SN, 9.vii.1992, leg. A. Kotenko; 1 ♀, idem, SN, 10.vii.1992; 3 ♀, idem, SN, 3–4.vi.1993; *Kherson Reg.*: 1 ♀, Askania-Nova, SN, 26.v.1974, leg. Tolkanitz; 1 ♀, 2 ♂, Dzharylgach, SN, 28–29.vi.1978, leg. A. Kotenko, V. Tolkanitz; 2 ♂, idem, SN, 2.ix.1983, leg. V. Tolkanitz; 1 ♀, Gola Prystan, SN, 7.viii.1978; 1 ♀, idem, Gopri, SN, 7.vi.1976, leg. A. Kotenko; 1 ♀, Oleksandrivka, SN, 4.vi.1974; 1 ♀, idem, SN, 5.vi.1974; 5 ♀, idem, SN, 6.vi.1974; 2 ♂, idem, SN, 18.vi.1975, leg. V. Tolkanitz; 1 ♀, Black Sea BR, Solenoozernyi area, SN, 1.vi.1971, leg. S. Kononova; 1 ♀, idem, SN, 21.vii.1974; 2 ♀, idem, 25–27.v.1976, leg. V. Tolkanitz; 2 ♀, 3 ♂, idem, SN, 9.vi.1989; 1 ♂, idem, SN, 1.vi.1983; 1 ♂, Black Sea BR, Ivano-Rybalchanskyi area, SN, 22.iv.1978; 1 ♂, idem, SN, 6.v.1982, leg. A. Kotenko; 2 ♀, idem, SN, 25.v.1982; 1 ♀, idem, SN, 26.v.1982; 1 ♀, idem, SN, 27.v.1982, leg. V.

Tolkanitz; 1 ♂, idem, SN, 14.vi.1989; 1 ♂, idem, SN, 13–14.viii.1978; 3 ♂, idem, SN, 22.viii.1978; 3 ♀, 2 ♂, idem, SN, 8.ix.1978; 1 ♀, 2 ♂, Burkuty, SN, 24.vi.1978; 5 ♀, idem, SN, 25.vi.1978; 4 ♀, 5 ♂, idem, SN, 26.vi.1978; 1 ♀, Genichesk Distr., Byryuchyi island, SN, 10.vi.1979; 2 ♀, 25–30 km of Genichesk, SN, 29.vi.1979, leg. A. Kotenko; 1 ♀, Gola Prystan Distr., Sadove, SN, 26.iv.1983; 1 ♂, Skadovsk, SN, 3.v.1983; 2 ♀, 1 ♂, Skadovsk Distr., Krasne, SN, 4.v.1983, leg. M. Nesterov; 1 ♀, 1 ♂, Black Sea BR, Potnevskiy area, SN, 15.vi.1989, leg. A. Kotenko; *Khmelnyskyi Reg.*: 1 ♀, Oleksiivka, SN, 25.v.1982; 2 ♀, 2 ♂, Shydlyvtsi, SN, 28.vii.1988; *Kyiv Reg.*: 1 ♀, Bila Tserkva, SN, 31.vii.1970; 2 ♀, Kyiv, Darnytsya, SN, 27.v.1970, leg. V. Tolkanitz; 1 ♀, idem, SN, 14.viii.1977, leg. V. Odnosum; 1 ♀, Kyiv, SN, 7.viii.1977; 1 ♀, Kyiv, Teremky, SN, 31.v.1980; 1 ♀, 1 ♂, idem, SN, 21.vii.1981; 1 ♂, idem, SN, 22.vii.2010; 2 ♀, Kyiv, Kruglyk, SN, 3.vi.1979; 3 ♂, idem, SN, 5.ix.1981; 1 ♀, Kyiv, Novosilky, SN, 16.v.1984; 1 ♀, idem, SN, 4.vi.1984; 1 ♀, idem, SN, 14.vi.1984; 3 ♀, idem, SN, 6.ix.1984; 1 ♀, Khodosivka, SN, 21.viii.1983; 1 ♀, Kyiv, Gorbovychi, 7–8.viii.1988; 1 ♀, Myronivka Distr., Velykiy Bukryn, SN, 1.vii.1999; 1 ♀, Fastiv Distr., Kozhanka, SN, 24.vii.1999, leg. A. Kotenko; 1 ♀, Bilychi, SN, 11.v.2004; 1 ♀, Stoyanka, SN, 22.vii.2004, leg. M. Nesterov; 1 ♀, Kyiv, Lysa Gora, SN, 14.ix.2010, leg. A. Kotenko; *Lugansk Reg.*: 1 ♂, Stanytsya Luganska, SN, 10.vi.1972; 1 ♀, river Derkul bank, SN, 11.vii.1972, leg. V. Tolkanitz; 5 ♀, 1 ♂, Lugansk NR, Striltsivskiy Steppe, SN, 7.v.1978; 1 ♂, idem, SN, 27.vi.1983; 1 ♀, Krynychne, SN, 9.v.1978; 1 ♀, Provallya, SN, 22.vi.1979, leg. A. Kotenko; 1 ♀, Provalskiy Steppe Reserve, SN, 22.vi.1979, leg. V. Tolkanitz; 1 ♂, idem, SN, 1.vii.1983; 1 ♂, Lugansk NR, SN, 25.vi.1983; *Mykolaiv Reg.*: 1 ♂, Maryivka, SN, 14.vi.1976; 1 ♀, 3 ♂, Ochakiv, SN, 15–17.viii.1978, leg. A. Kotenko; 1 ♀, Kuripchyn, SN, 19.vii.1981; 1 ♀, Myhiya, SN, 19.vii.1988, leg. V. Tolkanitz; 1 ♀, Tashyne, SN, 10.vi.2010, leg. G. Nuzhna; *Odesa Reg.*: 1 ♂, Reni, SN, 14.vii.1972, leg. V. Tolkanitz; 1 ♂, Plavni, SN, 1.v.1979; 5 ♀, 1 ♂, idem, SN, 11.v.1979, leg. A. Kotenko; 1 ♀, Vylkove, SN, 31.v.1980, leg. M. Nesterov; 1 ♀, idem, SN, 8.x.1997, leg. A. Kotenko; 1 ♀, Chumailivka, SN, 17.vii.1981, leg. I. Bogdanovych; 1 ♀, 1 ♂, Savran, SN, 17.vii.1988; 6 ♀, Ermakov Island, SN, 7.vi.1995; 1 ♂, Balta, SN, 17.vii.1992; 1 ♀, Danube BR, Prymorske, SN, 5.ix.1995; 1 ♀, Danube BR, 4 km W of Shevchenkove, SN, 8.ix.1995; 1 ♀, Danube BR, Ermakov Island, SN, 15.ix.1995, leg. A. Kotenko; *Ternopil Reg.*: 1 ♀, 2 ♂, Ustya, SN, 24.vii.1988; 1 ♀, Medobory NR, 28.v.1994; 5 ♀, idem, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, Yasynya, SN, 10.vii.1963; 1 ♂, Mizhgirya, SN, 14.viii.1963; 1 ♀, Uzhgorod, SN, 3.vii.1986; 5 ♀, 2 ♂, Rakhiv, SN, 2.viii.1994; 3 ♀, Tyachiv, SN, 24.vii.1995, leg. A. Kotenko; 1 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, SN, 11.vii.2010; 1 ♀, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, MT, 12–31.v.2015, leg. O. Varga; *Vinnitsya Reg.*: 1 ♀, Pultivtsi, SN, 30.vi.1982, leg. Nazarov; *Volyn Reg.*: 1 ♀, 1 ♂, Samary, SN, 9.viii.1998; 1 ♀, Volyanske Lake, SN, 10.viii.1998; 1 ♀, Bile Lake, SN, 14.viii.1998, leg. A. Kotenko; *Zaporizhzhya Reg.*: 4 ♀, 1 ♂, Vasylivka, SN, 24.viii.1972; 1 ♀, idem, SN, 23–24.v.74; 1 ♂, idem, SN, 20.vii.1980; 2 ♀, idem, SN, 3.vii.1981; 1 ♀, 2–3 km S of Vasylivka, SN, 9.vii.1980; 1 ♀, Vasylivka Distr., Lysa Gora, SN, 11.vii.1974; 2 ♂, idem, SN, 2.v.1978, leg. V. Tolkanitz; 6 ♀, 3 ♂, idem, SN, 7.v.1978; 1 ♀, idem, SN, 10.v.1978; 2 ♀, idem, SN, 11.v.1978; 6 ♀, 4 ♂, Staroberdyanskyi Reserve, SN, 10.v.1978; 1 ♀, 4 ♂, Tambovka, SN, 8.v.1978, leg. V. Tolkanitz; *Zhytomyr Reg.*: 2 ♀, Denyshe, SN, 17–18.vii.2010, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Cherkasy, Chernigiv, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Lugansk, Mykolaiv, Odesa, Ternopil, Transcarpathian, Vinnitsya, Volyn, Zaporizhzhya, and Zhytomyr Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Scambus pomorum (Ratzeburg, 1848)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Crimea*: 1 ♀, 2 ♂, Luchyste, apple orchard, SN, 18.v.1969, leg. S. Sviridov; 8 ♀, 5 ♂, idem, SN, 3.vi.1989, leg. R. Shvedova; *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 17.v.2009; 1 ♀, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 24.iv.2011, leg. O. Varga; *Odesa Reg.*: 1 ♀, Prymorske, SN, 5.vi.1998, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Svydovets, m. Blyznytsya, SN, 25.vi.1974, leg. V. Tolkanitz; 3 ♀, idem, SN, 20.iv.2013, leg. V. Shparyk; 1 ♀, Marmarosy, Kvasnyi, SN, 30–21.vii.1995, leg. A. Kotenko; 6 ♀, Marmarosy, 11–12 km SE of Dilove, 47.925407 N, 24.311800 E, 1550 m, subalpine zone, m. Pip-Ivan, SN, 6–9.viii.2012, leg. O. Varga.

Distribution. Western Palaearctic; Ukraine: Crimea, Ivano-Frankivsk, Odesa and Transcarpathian Regs.

Biology. CMF, CSF, PS. April–August.

***Scambus puniceus* (Schmiedeknecht, 1914) (Fig. 9a, b)**

Records. New record.

Material examined. *Crimea*: 1 ♀, Kara-Dag, SN, 22.iv.1986; 1 ♀, idem, SN, 19.iv.1986, leg. V. Tolkanitz; 1 ♀, between kordon Zelenyi Hai and kordon Svitla Polyana, SN, 6.x.1990, leg. S. Kononova.

Distribution. Western Palaearctic; Ukraine: *Crimea*.

Biology. CSF. April and October.

***Scambus rufator* Aubert, 1964**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Chernivtsi Reg.*: 1 ♀, Stavchany, SN, 23.vii.1959; *Kyiv Reg.*: 1 ♀, Kyiv, Vasylykivskiy Island, SN, 20.viii.2006; *Odesa Reg.*: 1 ♀, Danube BR, 4 km W of Shevchenkove, SN, 8.ix.1995; 2 ♀, idem, SN, 11.ix.1995; 1 ♀, Danube BR, Ermakov Island, SN, 15.ix.1995; 2 ♀, Danube BR, 5 km E of Vylkove, SN, 19–20.ix.1995, leg. A. Kotenko.

Distribution. Western Palaearctic; Ukraine: Chernivtsi, Kyiv and Odesa Regs.

Biology. CEMF, PS. July–September.

***Scambus sagax* (Hartig, 1838) (Fig. 9k)**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 25.v.2010; 1 ♀, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 18.v.2011; 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 20.vi.2013; 1 ♀, Gorgany, m. Igrovets, 7.5 km SW of Stara Guta, 48.598571 N, 24.130344 E, 1500 m, subalpine zone, MT, 14.vi–2.vii.2014; 3 ♀, idem, MT, 20.vii–8.viii.2014; 1 ♀, idem, MT, 8–28.viii.2014, leg. O. Varga; *Kherson Reg.*: Skadovsk Distr., 1 ♀, Dzharylgach, SN, 2.ix.1983, leg. V. Tolkanitz; *Kyiv Reg.*: 1 ♀, Motovylyvka, SN, 24.vii.1981, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, SN, 5.vi.2010, leg. O. Varga; *Volyn Reg.*: 1 ♀, Vetly, SN, 10.vi.1977, leg. V. Odnosum.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk, Kherson, Kyiv, Transcarpathian, and Volyn Regs.

Biology. CME, CEMF, PS. May–September.

***Scambus signatus* (Pfeffer, 1913)**

Records. New record.

Material examined. *Cherkasy Reg.*: 1 ♀, Buchak, SN, 2.vi.1973, leg. V. Tolkanitz; 1 ♀, Kaniv NR, SN, 14.v.1977, leg. A. Kotenko; 1 ♀, Kaniv, SN, 12.viii.1978, leg. M. Zerova; 1 ♀, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984; *Crimea*: 1 ♀, kordon Svitla Polyana, SN, 3.vii.1976, leg. V. Tolkanitz; 1 ♀, Angar Pass, SN, 11.vii.1979, leg. A. Kotenko; 1 ♀, Armyansk, SN, 10.v.1983, leg. M. Nesterov; 1 ♀, Mnogorichchya, SN, 14.viii.1990, leg. V. Tolkanitz; 1 ♀, Opuk, SN, 19.vi.1998, leg. A. Kotenko; *Donetsk Reg.*: 1 ♀, Khomutovskyi Steppe Reserve, SN, 31.v.1983, leg. V. Tolkanitz; 1 ♀, Kamyani Mohyly Reserve, SN, 25–27.v.2009, leg. S. Simutnik; *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, SN, 22.ix.2011; 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 27.iv.2014; 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 8–9.vi.2012; 1 ♀, Ivano-Frankivsk, Vovchynets, 48.961303 N, 24.750302 E, 280 m, mixed forest, SN, 1.vi.2009, leg. O. Varga; *Kharkiv Reg.*: 1 ♀, Krasnokutsk, SN, 9.vii.1992; 1 ♀, idem, SN, 23.viii.1995; *Kherson Reg.*: 1 ♀, Burkuty, SN, 26.vi.1978; 1 ♀, 25–30 km of Genichesk, SN, 29.vi.1979; *Kyiv Reg.*: 1 ♀, Kyiv, Irpin, SN, 31.vii.1980; 1 ♀, Kyiv, Kruglyk, SN, 4.ix.1980; 1 ♀, Motovylyvka, SN, 14.vii.1981; 1 ♀, Kyiv, Teremky, SN, 14.v.1985; 1 ♀, Kyiv, SN, 18.vii.1999, leg. A. Kotenko; *Mykolaiv Reg.*: 1 ♀, Berezneguvate, SN, 8.v.1974; 1 ♀, Maryivka, SN, 12.v.1974, leg. V. Tolkanitz; 1 ♀, idem, SN, 14.vi.1976, leg. A. Kotenko; 2 ♀, Pervomaisk Distr., Kuriphyne, SN, 23.v.1980, leg. M. Nesterov; *Poltava Reg.*: 1 ♀, Myrgorod, SN, 9.vii.1982; 1 ♀, idem, SN, 29.viii.1984; *Odesa Reg.*: 1 ♀, Danube BR, Prymorske, SN, 12–14.ix.1995; 1 ♀, Kalynivka, SN, 24.ix.1995, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♂, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 9.vii.2011, leg. O. Varga; *Zaporizhzhya Reg.*: 1 ♀, 2–3 km S of Vasylyvka, SN, 9.vii.1980, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Cherkasy, *Crimea*, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Kyiv, Mykolaiv, Poltava, Odesa, Transcarpathian, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, EEFS, PS. April–September.

***Scambus strobilorum* (Ratzeburg, 1848)**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Ivano-Frankivsk Reg.*: 1 ♀, Gorgany, m. Igrovets, SN, 7.5 km SW of Stara Guta, 48.598571 N, 24.130344 E, 1500 m, subalpine zone, SN, 1.vii.2012; 1 ♂, Gorgany, m. Syvulya, 12–13 km SW of Stara Guta, 48.531433 N, 24.132609 E, 1425 m, subalpine zone, SN, 14.vii.2012, leg. O. Varga.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk Reg.

Biology. CME. July.

***Scambus vesicarius* (Ratzeburg, 1844)**

Records. New record.

Material examined. *Kyiv Reg.*: 1 ♀, Kyiv, Kruglyk, SN, 15.v.1982; *Poltava Reg.*: 1 ♀, Myrgorod, SN, 31.viii.1985; *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 29.vii.1994; *Volyn Reg.*: 1 ♀, Lyubeshiv Distr., Lyubotyn, SN, 21.viii.1998, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Kyiv, Poltava, Transcarpathian, and Volyn Regs.

Biology. CME, CEMF, EEFS. May–August.

***Schizopyga* Gravenhorst, 1829**

***Schizopyga circulator* (Panzer, 1800)**

Records. Ukraine (Kasparyan, 1981).

Material examined. *Donetsk Reg.*: 1 ♀, Bogorodychne, SN, 18.vi.1983, leg. V. Odnosum; *Kyiv Reg.*: 1 ♂, Pyrogiv, SN, 12.viii.2000, leg. A. Kotenko; 1 ♀, Muzychi, SN, 20.v.2006, leg. M. Nesterov; 1 ♂, Kyiv, Vasylykivskiy Island, SN, 20.viii.2006; *Volyn Reg.*: 1 ♂, Orikhove Lake, SN, 8.viii.1998, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Donetsk, Kyiv and Volyn Regs.

Biology. CEMF, PS. May–June.

***Schizopyga flavifrons* Holmgren, 1856**

Records. New record.

Material examined. *Donetsk Reg.*: 1 ♂, Blagodatne, SN, 11.vi.1975; *Khmelnyskyi Reg.*: 1 ♀, Shydlyvtsi, SN, 28.vii.1988, leg. V. Tolkanitz.

Distribution. Oriental and Palaearctic Regs; Ukraine: Donetsk and Khmelnytskyi Regs.

Biology. CEMF, PS. June–July.

***Schizopyga frigida* Cresson, 1870**

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Khmelnyskyi Reg.*: 1 ♀, Shydlyvtsi, SN, 28.vii.1988, leg. V. Tolkanitz.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk, Khmelnytskyi and Transcarpathian Regs.

Biology. CME, CEMF. May–October.

***Schizopyga podagrica* Gravenhorst, 1829**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Crimea*: 1 ♂, Alushta, SN, 12.vii.1979, leg. A. Lelei; *Donetsk Reg.*: 1 ♀, Khomutovskyi Steppe Reserve, SN, 24.vi.1979, leg. A. Kotenko; 1 ♀, idem, SN, 31.v.1983, leg. V. Tolkanitz; 1 ♂, idem, SN, 16.vi.1983, leg. A. Kotenko; 1 ♀, Kamyani Mohyly Reserve, SN, 15.vi.1975, leg. V. Tolkanitz; 1 ♂, idem, SN, 5.vi.1978, leg. V. Odnosum; 1 ♀, idem, SN, 24.vi.1979, leg. V. Tolkanitz; 1 ♀, Bogorodychne, SN, 20.vi.1983, leg. I. Plyushch; 1 ♂, idem, SN, 22.vi.1983; 1 ♂, Klishchiivka, SN, 17.v.1998, leg. A. Kotenko; *Kharkiv Reg.*: 1 ♀, SN, 15.vii.1975, leg. M. Narolsky; 1 ♂, Vovchansk Distr., Yefremivka, SN, 27.vii.1984; 1 ♀, Krasnokutsk, SN, 15.vi.1992; 1 ♀, idem, SN, 9.vii.1992, leg. A. Kotenko; *Kropyvnytskyi Reg.*: 1 ♂, Bogdanove, SN, 14.vi.1983; *Kyiv Reg.*: 1 ♂, Kyiv, Kruglyk, SN, 31.vii.1980, leg. V. Ermolenko; 1 ♀, 1 ♂, idem, SN, 4.ix.1980, leg. A. Kotenko; 1 ♀,

Kyiv, Khodosivka, SN, 16.viii.2005, leg. M. Nesterov; *Lugansk Reg.*: 1 ♂, Lugansk NR, Striltsivskiyi Steppe, SN, 27.vi.1983; 1 ♂, Provallya, SN, 1.viii.1983, leg. A. Kotenko; *Zaporizhzhya Reg.*: 1 ♀, 2–3 km S of Vasylivka, SN, 9.vii.1980, leg. V. Tolkanitz.

Distribution. Palaearctic; Ukraine: Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kropyvnytskyi, Kyiv, Lugansk, Transcarpathian, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, EEFS, PS. May–September.

Sinarachna Townes, 1960

Sinarachna nigricornis (Holmgren, 1860)

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 1.viii.1994; 1 ♀, idem, SN, 2.viii.1994, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. June–August.

Sinarachna pallipes (Holmgren, 1860)

Records. Transcarpathian Region (Varga, 2018b).

Material examined. *Crimea*: 1 ♀, Angar Pass, SN, 10.vii.1979, leg. A. Kotenko; *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 10.vii.1996, leg. V. Ermolenko.

Distribution. Holarctic; Ukraine: Crimea and Transcarpathian Regs.

Biology. CMF, CSF. July–August.

Townesia Ozols, 1962

Townesia tenuiventris (Holmgren, 1860)

Records. New record.

Material examined. *Ivano-Frankivsk Reg.*: 1 ♀, Mochary, 5 km NE of Bogorodchany, 48.837078 N, 24.581379 E, 315 m, mixed forest, TT, 9–27.vi.2014; 1 ♀, Dibrova, 5 km SW of Bogorodchany, 48.772054 N, 24.511657 E, 310 m, oak forest, SN, 8.vi.2013; 1 ♀, Zhbyr, 8 km SW of Bogorodchany, 48.777922 N, 24.456837 E, 405 m, mixed forest, SN, 27.vii.2012; 1 ♀, Gorgany, 4 km SW of Stara Guta, 48.614163 N, 24.157944 E, 1050 m, coniferous forest, SN, 8–9.vi.2012; 1 ♀, idem, SN, 1.vii.2012; 1 ♀, idem, SN, 20.vi.2013, leg. O. Varga; *Kyiv Reg.*: 1 ♀, Kyiv, Irpin, SN, 8.ix.1979, leg. A. Kotenko; 1 ♀, Kyiv, Bilychi, SN, 15.vi.2010, leg. M. Zaika; *Transcarpathian Reg.*: 1 ♀, Chornogora, Sheshul 6–7 km NE of Kvasy, 48.157193 N, 24.363658 E, 1450 m, subalpine zone, SN, 16–18.vi.2012; 1 ♂, idem, SN, 15.vi.2013, leg. O. Varga.

Distribution. Holarctic; Ukraine: Ivano-Frankivsk, Kyiv and Transcarpathian Regs.

Biology. CMF, CEMF. June–September.

Tromatobia Förster, 1869

Tromatobia forsiusi (Hellen, 1915) (Fig. 14)

Records. New record.

Material examined. *Cherkasy Reg.*: 2 ♀, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz.

Distribution. Palaearctic; Ukraine: Cherkasy Reg.

Biology. EEFS. August.

Tromatobia lineatoria (Villers, 1789)

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Crimea*: 1 ♀, Kara-Dag, SN, 7.vi.1978, leg. Pshebelska; 1 ♂, Aya Cape, SN, 21.viii.1979, leg. A. Kotenko.



FIGURE 14. *Tromatobia forsiusi*, dorsal view of female habitus.

Distribution. Europe; Ukraine: Crimea, Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF, CSF. May–August.

***Tromatobia ornata* (Gravenhorst, 1829)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk Region (Varga, 2018b).

Material examined. *Cherkasy Reg.:* 1 ♀, Kaniv NR, Maryina Gora, SN, 20.v.1972; 1 ♂, Kaniv NR, SN, 21.v.1972, leg. V. Tolkanitz; *Crimea:* 1 ♂, 4 km N of Opuk, SN, 16.vi.1998; 2 ♀, idem, SN, 17.vi.1998; 1 ♂, 1 ♀, idem, SN, 18–19.vi.1998, leg. A. Kotenko; 1 ♀, Lavanda, SN, 3.vii.2004, leg. M. Nesterov; *Donetsk Reg.:* 1 ♀, Kamyani Mo-
hyly Reserve, Nazariivka, SN, 25–27.v.2009, leg. S. Symutnik; *Kharkiv Reg.:* 1 ♂, ? Bognovoe, without date, leg. V. Odno-sum; *Kherson Reg.:* 1 ♀, Gola Prystan, SN, 31.v.1972; 1 ♀, Burkuty, SN, 26.vi.1978; 1 ♂, Radensk, SN, 2.vi.1998, leg. A. Kotenko; *Kyiv Reg.:* 1 ♀, Kyiv, Khodosivka, SN, 7.vi.2004, leg. M. Nesterov; *Lugansk Reg.:* 1 ♀, Lugansk NR, Krynychne, SN, 12–15.vii.2008, leg. S. Klymenko; *Rivne Reg.:* 1 ♀, Berezne Distr., Kurgany, SN, 21.vi.1999, leg. A. Kotenko.

Distribution. Oriental and Palaearctic Regs; Ukraine: Crimea, Cherkasy, Donetsk, Ivano-Frankivsk, Kherson, Kyiv, Lugansk, and Rivne Regs.

Biology. CMF, CEMF, CSF, EEFS, PS. May–September.

***Tromatobia ovivora* (Boheman, 1821)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Cherkasy Reg.:* 1 ♀, Kaniv Distr., Lukovytsya, SN, 5.vi.1999; *Donetsk Reg.:* 1 ♀, Svyatogirsk, SN, 7.vi.1975, leg. V. Tolkanitz; *Khmelnyskyi Reg.:* 1 ♀, Netishyn, SN, 10.viii.1999, leg. A. Kotenko; *Kyiv Reg.:* 1 ♀, Kyiv, Bilychi, SN, 1.x.1975, leg. V. Ermolenko; 1 ♀, Oleksandriya National Dendrological Park, v.1975, leg. T. Bulgakova; 1 ♀, Kyiv, SN, 24.vii.1977; 2 ♀, Kyiv, Kruglyk, SN, 3.vi.1979; 1 ♀, Kyiv, Novosilky, SN, 24.v.1981; 1 ♂, idem, SN, 16.v.1984; 1 ♀, idem, SN, 14.vi.1984; 1 ♀, Kyiv, Motovylivka, SN, 14.vii.1981, leg. A. Kotenko; 1 ♀, Muzychi, SN, 14.ix.2006, leg. M. Nesterov; *Lugansk Reg.:* 1 ♀, Anratsyt, SN, 8.vi.1975, leg. V. Tolkanitz; *Odesa Reg.:* 1 ♀, Plavni, SN, 11.v.1979, leg. A. Kotenko; *Rivne Reg.:* 1 ♀, Kamyanytsya, SN, 4.x.1980, leg. A. Kotenko, V. Ermolenko; *Ternopil Reg.:* 4 ♀, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Volyn Reg.:* 1 ♀, Kovel Distr., Pochapy, SN, 3–4.viii.1998; 1 ♀, Lyubcha Lake, SN, 15.viii.1998, leg. A. Kotenko.

Distribution. Holarctic and Neotropical Regs; Ukraine: Cherkasy, Donetsk, Ivano-Frankivsk, Khmelnytskyi, Kyiv, Lugansk, Odesa, Rivne, Ternopil, Transcarpathian, and Volyn Regs.

Biology. CMF, CEMF, EEFS, PS. May–October.

***Tromatobia variabilis* (Holmgren, 1856)**

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk Region (Varga, 2018b).

Material examined. *Cherkasy Reg.:* 1 ♀, 3 ♂, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz; *Crimea:* 2 ♂, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 3 ♂, 5 km N of Olenivka, SN, 25.vii.1979; 1 ♂, Opuk, SN, 17.vi.1998; 1 ♀, idem, SN, 18–19.vi.1998; *Donetsk Reg.:* 1 ♂, 3 ♀, Khomutovskyi Steppe Reserve, SN, 20.iv.1978; 2 ♀, 6 ♂, idem, SN, 28.iv.1978; 1 ♂, Kryva Luka, SN, 21.vi.1983; *Kherson Reg.:* 2 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 8.ix.1978, leg. A. Kotenko; 2 ♂, 2 ♀, Skadovsk, SN, 3.v.1983, leg. M. Nesterov; 1 ♀, Oleksandrivka, SN, 4.vi.1974; 3 ♀, idem, SN, 5.vi.1974; 10 ♀, 1 ♂, idem, SN, 6.vi.1974; 7 ♀, 1 ♂, idem, SN, 18.vi.1975, leg. V. Tolkanitz; 3 ♀, 1 ♂, Black Sea BR, Potnevskyi area, SN, 15.vi.1989; 1 ♀, 1 ♂, 25–30 km of Genichesk, SN, 29.vi.1979; 1 ♀, 2 ♂, Black Sea BR, Solenoozernyi area, SN, 10–12.vii.1979; 6 ♀, 1 ♂, Skadovsk Distr., Dzharlygach, SN, 28–29.vi.1978, leg. A. Kotenko; 2 ♀, idem, SN, 2.ix.1983, leg. V. Tolkanitz; *Kyiv Reg.:* 1 ♂, Kyiv, Feofania, SN, 7.v.1977, leg. V. Ermolenko; *Lugansk Reg.:* 4 ♀, 4 ♂, Lugansk NR, Striltsivskyi Steppe Reserve, SN, 7.v.1978; 5 ♀, 2 ♂, idem, SN, 8.v.1978; 1 ♀, 1 ♂, Krynychne, SN, 8.v.1978; 4 ♀, 6 ♂, idem, SN, 9.v.1978; 1 ♀, 1 ♂, Provalskyi Steppe Reserve, SN, 21.vi.1979; *Mykolaiv Reg.:* 1 ♀, Ochakiv Distr., Parutyne, SN, 18.v.1978; 1 ♀, Ochakiv, SN, 15–17.viii.1978, leg. A. Kotenko; *Odesa Reg.:* 1 ♂, Morozova, SN, 14.v.1978; 2 ♀, 2 ♂, Danube BR, Prymorske, SN, 2.ix.1995; 5 ♀, idem, SN, 3.ix.1995; 7 ♀, 5 ♂, idem, SN, 5.ix.1995; 2 ♀, 1 ♂, idem, SN, 7.ix.1995; 6 ♀, 9 ♂, idem, 12–14.ix.1995; 3 ♀, idem, SN, 16.ix.1995; 2 ♀, 1 ♂, Danube BR, 4 km W of Shevchenkove, SN, 8.ix.1995; 1 ♀, 2 ♂, idem, SN, 11.ix.1995; 1 ♂, Tatarbunary, SN, 7.vi.1983; 1 ♂, idem, SN, 8.vi.1983; 1 ♀, Danube BR, Vylkove, SN, 8.x.1997; 2 ♂, Savranske, SN, 6.viii.2004; *Volyn Reg.:* 3 ♂, Kovel Distr., Orikhove Lake, SN, 8.viii.1998; 1 ♂, Lyubcha Lake, SN, 15.viii.1998; 1 ♂, 1.5 km of Nevytske Lake, SN, 17.viii.1998, leg. A. Kotenko; *Zaporizhzhya Reg.:* 2 ♀, Vasylivka, SN, 23–24.v.1974; 1 ♂, Obytichna Spit, SN, 22.viii.1982, leg. S. Kononova.

Distribution. Holarctic; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kherson, Kyiv, Lugansk, Mykolaiv, Odesa, Volyn, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, EEFS, PS. April–October.

Zabrachypus Cushman, 1920

Zabrachypus primus Cushman, 1920 (Fig. 15)

Records. Ukraine (Kasparyan, 1981).

Material examined. *Kherson Reg.*: 1 ♂, Askania-Nova, SN, 27.v.1974; 1 ♀, Black Sea BR, Solenoozernyi area, SN, 25–27.v.1976, leg. V. Tolkanitz; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 1.vi.1974; 1 ♀, idem, SN, 22.viii.1978; 1 ♀, idem, SN, 11.vi.1980; 1 ♂, 1 ♀, idem, SN, 10.vi.1983, leg. A. Kotenko; 1 ♀, Black Sea BR, SN, 17.viii.1982, leg. O. Radchenko; *Kyiv Reg.*: 1 ♀, Kyiv, Lysa Gora, SN, 4.vii.1970; *Lugansk Reg.*: 1 ♀, Provalskyi Steppe Reserve, SN, 21.vi.1979; *Odesa Reg.*: 1 ♀, Plavni, SN, 11.v.1979; 1 ♂, Savranske, SN, 6.viii.2004, leg. A. Kotenko; *Zaporizhzhya Reg.*: 3 ♀, 1 ♂, Staroberdyanskyi Reserve, SN, 10.v.1978, leg. V. Tolkanitz; 2 ♀, 2–3 km S of Vasylivka, SN, 9.vii.1980; 1 ♀, Bogatyr, SN, 14.vi.1983, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Kherson, Kyiv, Lugansk, Odesa, and Zaporizhzhya Regs.

Biology. CEMF, PS. May–August.



FIGURE 15. *Zabrachypus primus*, lateral view of female habitus.

Zaglyptus Förster, 1869

Zaglyptus multicolor (Gravenhorst, 1829)

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Crimea*: 1 ♀, Laspi, SN, 22.vii.1973; 1 ♀, 4 ♂, 1 km N of Angar Pass, SN, 11.vii.1979; 4 ♂, idem, SN, 11.vii.1979; 1 ♀, Demerdzhy, SN, 2.x.1990; *Kharkiv Reg.*: 1 ♀, Vovchansk Distr., Bochkove, SN, 26.vii.1984; 1 ♂, Efremivka, SN, 27.vii.1984; ♂, Krasnokutsk, SN, 8.ix.1993, leg. A. Kotenko; *Kherson Reg.*: 1 ♀, Black Sea BR, Solenoozerniy area, SN, 30.v–1.vi.1976, leg. V. Tolkanitz; 1 ♀, 5 km of Bekhtery, SN, 23.ix.1976; 1 ♂, Skadovsk Distr., Krasne, SN, 4.v.1983, leg. M. Nesterov; *Khmelnyskyi Reg.*: 1 ♀, 2 ♂, Shydlyvtsi, SN, 28.vii.1988, leg. V. Tolkanitz; *Kyiv Reg.*: 2 ♀, Kyiv, SN, 19.ix.2004; 1 ♀, idem, SN, 20.viii.2008, leg. A. Kotenko; 1 ♀, Kyiv, Kruglyk, SN, 14.vi.1979, leg. V. Ermolenko; 1 ♂, Kyiv, Irpin, SN, 8.ix.1979; 1 ♀, Kyiv, Teremky, SN, 31.v.1980; 2 ♂, Romanivka, SN, 21.viii.1977, leg. A. Kotenko; 1 ♀, Kyiv, Novosilky, SN, 4.v.1984, leg. V. Tolkanitz; 2 ♀, idem, SN, 24.v.1984; 1 ♂, idem, SN, 4.vii.1984, leg. A. Kotenko; 1 ♂, idem, SN, 14.vii.1984, leg. V. Tolkanitz; 1 ♀, idem, SN, 23.vii.1984, leg. A. Kotenko; 4 ♀, 2 ♂, idem, SN, 26.viii.1984, leg. V. Tolkanitz; 2 ♀, 2 ♂, idem, SN, 6.ix.1984; 1 ♀, Kyiv, Pyrogiv, SN, 12.viii.2000, leg. A. Kotenko; *Mykolaiv Reg.*: 1 ♀, Pervomaisk Distr., Kuripchyne, SN, 23.v.1980, leg. M. Nesterov; *Odesa Reg.*: 1 ♀, Balta, SN, 18.vii.1992; 1 ♀, Danube BR, 5 km E of Vylkove, SN, 19–20.ix.1995; 1 ♂, Savranske, SN, 4.viii.2004; *Poltava Reg.*: 1 ♀, Kuibyshev Island, SN, 8.vii.1983; 1 ♀, Myrgorod, Ostriv, SN, 9.viii.1982; 3 ♀, idem, SN, 29.viii.1984; 1 ♀, idem, SN, 31.viii.1985; *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 1.viii.1994, leg. A. Kotenko; *Zaporizhzhya Reg.*: 2 ♀, 1 ♂, Staroberdyanskyi Reserve, SN, 10.v.1978; 1 ♀, Vasylivka Distr., Lysa Gora, SN, 11.v.1978; 1 ♀, Vasylivka, SN, 10.vii.1981, leg. V. Tolkanitz.

Distribution. Oriental and Palaearctic Regs; Ukraine: Crimea, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Mykolaiv, Odesa, Poltava, Transcarpathian, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, EEFS, PS. May–October.

Zaglyptus varipes (Gravenhorst, 1829)

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv, SN, 8–10.viii.1975; 3 ♀, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz; 1 ♀, Kaniv NR, SN, 14.ix.1988, leg. O. Chervonenko; 1 ♂, Kaniv Distr., Lukovytsya, SN, 22.iv.1999; 1 ♀, Trakhtemyriv, SN, 15.v.2000, leg. A. Kotenko; *Crimea*: 1 ♀, Savytski Sady, SN, 28.vi.1976, leg. V. Tolkanitz; 1 ♀, idem, SN, 30.vi.1976; 1 ♂, 1 km N of Angar Pass, SN, 11.vii.1979; 1 ♀, 4 ♂, kordon Suat, SN, 15.vii.1979, leg. A. Kotenko; 1 ♀, Staryi Krym, SN, 5.vii.1979, leg. V. Tolkanitz; 2 ♂, Laspi, SN, 22.vii.1979, leg. A. Kotenko; 2 ♀, 4 ♂, Svitla Polyana, SN, 8.ix.1983; 1 ♂, Schaslyve, SN, 11–12.vii.1990, leg. V. Tolkanitz; 1 ♀, Opuk, SN, 17.vi.1998; 1 ♀, idem, SN, 18–19.vi.1998, leg. A. Kotenko; 1 ♂, Kerch, Adzhy-Mushkai, SN, 20.iv.1999, leg. E. Rutian; *Donetsk Reg.*: 1 ♀, Blagodadne, SN, 11.vi.1975, leg. V. Tolkanitz; 3 ♀, Khomutovskyi Steppe Reserve, SN, 24.vi.1979, leg. A. Kotenko; 1 ♂, 10 km S of Slovyanogirsk, SN, 19.vii.1982, leg. D. Kasparyan; 1 ♀, river Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983, leg. V. Tolkanitz; 2 ♂, Svyatogirsk, SN, 15.x.1998, leg. V. Perepechaenko; *Kharkiv Reg.*: 1 ♀, Kindrashivka, SN, 3.v.1978; 2 ♂, right bank of river Siverskyi Donets, 18 km of Izyum, SN, 9.v.1980; *Kherson Reg.*: 1 ♂, Gola Prystan, SN, 6.v.1974; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 22.viii.1978; 1 ♀, Black Sea BR, Solenoozerniy area, SN, 9.vi.1989; 1 ♀, Black Sea BR, Potnevskyi area, SN, 15.vi.1989; *Kyiv Reg.*: 1 ♀, Lisnyky, SN, 28.viii.1977; 1 ♀, Kyiv, Sofiivka, SN, 28–29.vii.1970; 1 ♂, Kyiv, Kruglyk, SN, 1.v.1983, leg. A. Kotenko; 1 ♂, Kyiv, Feofania, SN, 18.v.1983; 1 ♀, 4 ♂, Kyiv, Novosilky, SN, 4.v.1984, leg. V. Tolkanitz; 1 ♀, 2 ♂, idem, SN, 12.v.1985, leg. S. Zrashevsky; 3 ♂, idem, SN, 14.v.1984; 1 ♀, 1 ♂, idem, SN, 16.v.1984; 1 ♀, idem, SN, 24.v.1984, leg. A. Kotenko; 2 ♀, idem, SN, 24.v.1984; 1 ♀, idem, SN, 4.vi.1984, leg. V. Tolkanitz; 1 ♂, idem, SN, 14.vi.1984, leg. A. Kotenko; 2 ♂, idem, SN, 26.viii.1984, leg. V. Tolkanitz; 1 ♀, idem, SN, 6.ix.1984; 1 ♀, Kyiv, Irpin, SN, 30.v.1979, leg. A. Kotenko; 1 ♀, Yagotyn, SN, 20.vii.1987, leg. S. Sviridov; *Lugansk Reg.*: 1 ♀, Anratsyt, SN, 8.vi.1975, leg. V. Tolkanitz; 1 ♂, Provalskyi Steppe Reserve, SN, 30.iv.1978; 1 ♀, idem, SN, 21.vi.1979; 1 ♀, Lugansk NR, Striltsivskyi Steppe, SN, 7.v.1978, leg. A. Kotenko; 1 ♂, Lugansk NR, Krynychne, SN, 18–20.iv.2008, leg. S. Klymenko; *Mykolaiv Reg.*: 1 ♀, Ochakiv, SN, 15–17.viii.1978; *Odesa Reg.*: 2 ♀, Balta, SN, 18.vii.1992; 1 ♀, Danube BR, Prymorske, SN, 2.ix.1995; 1 ♀, idem, SN, 12–14.ix.1995; 1 ♀, Danube BR, 4 km W of Shevchenkove, SN, 8.ix.1995; 1 ♀, idem, SN, 11.ix.1995; *Poltava Reg.*: 1 ♀, Kuibyshev Island, SN, 8.vii.1983; 2 ♀, 3 ♂, Myrgorod, Ostriv, SN, 29.viii.1984; 1 ♀, idem, SN, 31.viii.1985; *Rivne Reg.*: 1 ♀, 4 km E of Varash, SN, 25.vi.2000, leg. A. Kotenko; *Vinnitsya Reg.*: 1 ♀, Vinnitsya ? forestry, SN, 27.vii.1988, leg. V. Tolkanitz; *Volyn Reg.*: 1 ♀, Kovel Distr. Pochapy, SN, 3–4.viii.1998; 1 ♀, Orikhove Lake, SN, 8.viii.1998; 1 ♀, Samary, SN, 9.viii.1998; 1 ♂, Bile Lake, SN, 14.viii.1998; 1 ♀, Lyubcha Lake, SN, 15.viii.1998; 1 ♀, 2 ♂, Lyubeshiv Distr., Lyubotyn, SN, 21.viii.1998; 1 ♀, 1 ♂, Zalysytsya, E bank of Orikhove

Lake, SN, 8.viii.1998, leg. A. Kotenko; *Zaporizhzhya Reg.*: 1 ♂, Vasylivka, SN, 13–14.vii.1974; 1 ♂, Vasylivka Distr., Lysa Gora, SN, 2.v.1978; 1 ♂, Tambovka, SN, 7–8.vii.1981, leg. V. Tolkanitz; *Zhytomyr Reg.*: 1 ♀, Zhur-zhevychi, SN, 15.ix.1978, leg. A. Kotenko.

Distribution. Holarctic and Neotropical Regs; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Kyiv, Lugansk, Odesa, Poltava, Rivne, Transcarpathian, Vinnytsya, Volyn, Zaporizhzhya, and Zhytomyr Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Zatypota Förster, 1869

Zatypota albicoxa (Walker, 1874)

Records. Ukraine (Kasparyan & Khalaim, 2007), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Khmelnyskyi Reg.*: 1 ♀, Netishyn, SN, 31.vii.1999; *Kyiv Reg.*: 1 ♀, Kyiv, Novosilky, SN, 23.vii.1984; 2 ♀, idem, SN, 6.ix.1984; *Poltava Reg.*: 1 ♀, Myrgorod, Ostriv, SN, 9.viii.1982; 1 ♂, idem, SN, 29.viii.1984, leg. A. Kotenko.

Distribution. Oriental and Palaeartic Regs; Ukraine: Ivano-Frankivsk, Khmelnytskyi, Kyiv, Poltava, and Transcarpathian Regs.

Biology. CMF, CEMF, EEFS. June–September.

Zatypota anomala (Holmgren, 1860)

Records. Ukraine (Kasparyan, 1981), Transcarpathian Region (Varga, 2018b).

Material examined. *Transcarpathian Reg.*: 4 ♀, 6.5 km N of Mala Ugolka, 48.259464 N, 23.619672 E, 600 m, beech forest, MT, 8.vii–6.viii.2015; 18 ♀, idem, MT, 6.viii–3.ix.2015, leg. O. Varga.

Distribution. Holarctic and Neotropical Regs; Ukraine: Transcarpathian Reg.

Biology. CMF. July–August.

Zatypota bohemani (Holmgren, 1860)

Records. Ukraine (Kasparyan, 1981), Transcarpathian Region (Varga, 2018b).

Material examined. *Kharkiv Reg.*: 3 ♀, Vovchansk Distr., Yefremivka, SN, 27.vii.1984, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Kharkiv and Transcarpathian Regs.

Biology. CMF, PS. July–August.

Zatypota discolor (Holmgren, 1860) (Fig. 16a, c)

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Kharkiv Reg.*: 3 ♀, Vovchansk Distr., Yefremivka, SN, 19.vii.1984, leg. M. Narolsky; 1 ♀, idem, SN, 27.vii.1984, leg. A. Kotenko; 3 ♀, idem, SN, 15.viii.1985, leg. M. Narolsky; *Transcarpathian Reg.*: 1 ♂, Uzhgorod, Dravtsi, SN, 18.viii.1955, leg. N. Telenga.

Distribution. Palaeartic; Ukraine: Ivano-Frankivsk, Kharkiv and Transcarpathian Regs.

Biology. CMF, PS, PMF. July–August.

Zatypota percontatoria (Muller, 1776) (Fig. 16b)

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2018b).

Material examined. *Crimea*: 2 ♀, Laspi, SN, 21.vii.1979; 2 ♀, idem, SN, 22.vii.1979; 2 ♀, Tankove, SN, 18.vii.1979; *Donetsk Reg.*: 2 ♀, Khomutovskyi Steppe Reserve, SN, 24.vi.1979; *Kharkiv Reg.*: 7 ♀, 1 ♂, Vovchansk Distr., Yefremivka, SN, 27.vii.1984; 7 ♀, 2 ♂, Bochkove, SN, 26.vii.1984, leg. A. Kotenko; *Khmelnyskyi Reg.*: 1 ♂, Letychiv Distr., Golovchyntsi, SN, 30.vii.1988, leg. V. Tolkanitz; *Kyiv Reg.*: 1 ♀, Kyiv, Novosilky, SN, 14.viii.1984, leg. A. Kotenko; 2 ♀, idem, SN, 26.viii.1984, leg. V. Tolkanitz; 2 ♀, 1 ♂, idem, SN, 6.ix.1984; 1 ♀, Makiychukove, SN, 6.ix.1980; 1 ♀, Kyiv, Irpin, SN, 8.viii.1982; 4 ♀, 1 ♂, Kyiv, SN, 11.ix.1991; *Lugansk Reg.*: 1 ♂, Stanytsya Luganska, SN, 29.vi.1983; 1 ♀, Novo-Illyenko bio-station, SN, 25.vi.1983; *Odesa Reg.*: 1 ♀, Danube BR, 5 km

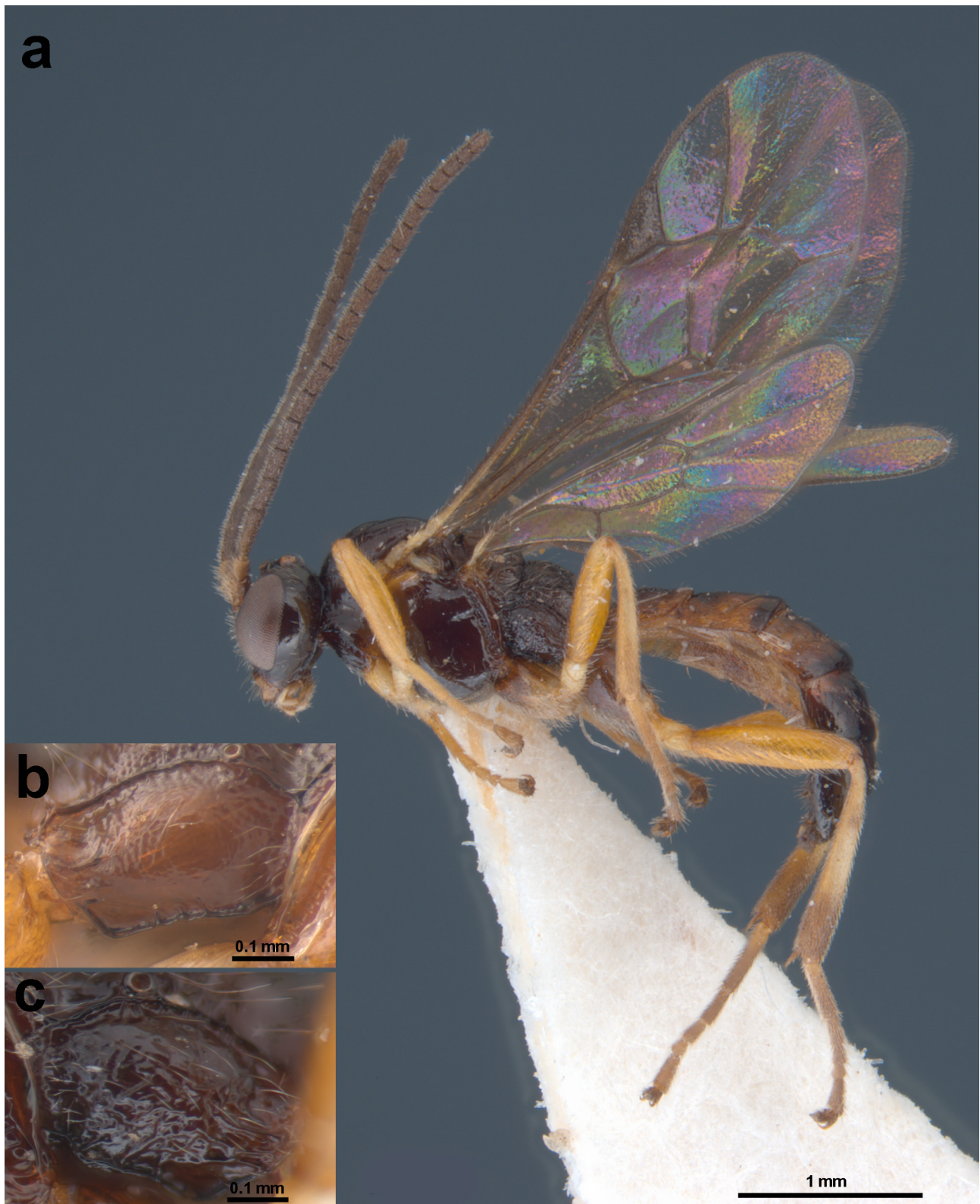


FIGURE 16. *Zatyptota* spp. a) *Z. discolor*, lateral view of male habitus; b-c) latellar view of metapleuron: b) *Z. percontatoria*; c) *Z. discolor*.

E of Vylkove, SN, 19–20.ix.1995; *Poltava Reg.*: 1 ♀, Myrgorod, Ostriv, SN, 9.viii.1982; 2 ♀, 1 ♂, idem, SN, 29.viii.1984; 2 ♀, 1 ♂, Kuibyshiv Island, SN, 8.vii.1983; *Transcarpathian Reg.*: 1 ♂, Rakhiv, SN, 1.viii.1994; *Volyn Reg.*: 1 ♀, Bile Lake, SN, 14.viii.1998; 2 ♀, idem, SN, 16–18.viii.1998; 1 ♀, Lyubeshiv Distr., Lyubotyn, SN, 21.viii.1998, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Khmelnytskyi, Kyiv, Lugansk, Odesa, Poltava, Rivne, Transcarpathian, and Volyn Regs.

Biology. CMF, CEMF, CSF, EEFS, PS. May–October.

Tribe Pimplini Wesmael, 1845

Apechthis Förster, 1869

Apechthis capulifera (Kriechbaumer, 1887)

Records. Kharkiv (Kasparyan, 1973) and Transcarpathian (Varga, 2017b) Regions.

Material examined. Literature data only.

Distribution. Oriental and Palaearctic Regs; Ukraine: Kharkiv and Transcarpathian Regs.

Biology. CMF, EEFS. May–July.

Apechthis compunctor (Linnaeus, 1758)

Records. Crimea, Kharkiv, Kherson, Kyiv, Vinnytsya (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♂, Kaniv, on light, SN, 24.ix.1959; *Chernigiv Reg.*: 1 ♂, Nizhyn, SN, 4.vii.1990, leg. P. Sheshurak; *Crimea*: 1 ♂, kordon Taryer, SN, 27.vi.1976, leg. A. Kotenko; *Donetsk Reg.*: 1 ♀, Blagodadne, SN, 11.vi.1975, leg. V. Tolkanitz; 1 ♂, Khomutovskyi Steppe Reserve, SN, 20.iv.1978; 3 ♂, idem, SN, 25.vi.1979; *Kharkiv Reg.*: 1 ♀, Sharivka, SN, 14.vi.1992, leg. A. Kotenko; *Khmelnytskyi Reg.*: 1 ♂, Shydlivtsi, SN, 28.vii.1988; 1 ♂, Chemerovets Distr., Zaluchchya, SN, 29.vii.1988, leg. V. Tolkanitz; *Kyiv Reg.*: 1 ♂, Darnytsya, SN, 17.v.1969, leg. V. Ermolenko; 1 ♀, idem, SN, 7.vi.1978; 2 ♀, Kyiv, SN, 18.viii.1974, leg. V. Tolkanitz; 1 ♀, idem, SN, 7.ix.1974, leg. V. Ermolenko; 1 ♂, Kyiv, Teremky, SN, 21.vii.1981, leg. A. Kotenko; 1 ♀, idem, SN, 18.v.1982, leg. S. Kononova; 1 ♂, idem, ex *Sylepta ruralis* pupa, 26.vi.1984; 1 ♀, idem, 27.vi.1984, leg. A. Tsybul'sky; 1 ♂, Lyubartsi, SN, 27.v.1986; 1 ♀, Kyiv, Novosilky, SN, 8.vi.1982, leg. S. Sviridov; 1 ♀, idem, SN, 24.v.1984; 1 ♂, idem, SN, 4.vii.1984; 1 ♀, 1 ♂, idem, SN, 23.vii.1984, leg. A. Kotenko; *Lugansk Reg.*: 1 ♀, Antratsyt, SN, 8.vi.1975, leg. V. Tolkanitz; 8 ♂, Novo-Ilyenko bio-station, SN, 1–2.v.1978; 1 ♀, 1 ♂, Proval'skyi Steppe Reserve, SN, 21.vi.1979, leg. A. Kotenko; *Odesa Reg.*: 1 ♀, Bilyaivka, SN, 5.vii.1974, leg. V. Tolkanitz; 1 ♂, Lisne, SN, 7.vii.1978, leg. A. Kotenko; *Ternopil Reg.*: 1 ♀, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, 1 ♂, Tyachiv, SN, 5.vi.1955; 1 ♀, Uzhgorod, SN, 24.vi.1955; 1 ♀, idem, SN, 25.vi.1955; 1 ♀, Chornotysiv, SN, 25.vi.1955, leg. N. Telenga; *Zhytomyr Reg.*: 1 ♀, Sniguri, SN, 1.x.1978, leg. Z. Kljutschko.

Distribution. Palaearctic; Ukraine: Cherkasy, Chernigiv, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Lugansk, Odesa, Ternopil, Transcarpathian, Vinnytsya, and Zhytomyr Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Apechthis quadridentata (Thomson, 1877)

Records. Crimea, Kharkiv, Poltava, Vinnytsya (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv, SN, 4.viii.1970, leg. V. Tolkanitz; 2 ♂, Kaniv NR, SN, 14.v.1977; *Crimea*: 1 ♂, kordon Asport, SN, 1.vi.1976, leg. A. Kotenko; 1 ♀, idem, Chatyr-Dag, SN, 4.vii.1976, leg. V. Tolkanitz; 1 ♂, 1 km N of Angar Pass, SN, 11.vii.1979, leg. A. Kotenko; 1 ♀, Svitla Polyana, SN, 8.ix.1983, leg. V. Tolkanitz; 1 ♀, kordon Zelenyi Hai, SN, 5.x.1990, leg. S. Kononova; 1 ♀, Opuk, SN, 17.vi.1998; *Donetsk Reg.*: 1 ♀, Khomutovskyi Steppe Reserve, SN, 24.vi.1979; 1 ♀, idem, SN, 25.vi.1979, leg. A. Kotenko; *Kharkiv Reg.*: 1 ♀, Goncharivka, SN, 5–6.vi.1975, leg. V. Tolkanitz; 1 ♀, Sharivka, SN, 14.vi.1992; 3 ♀, Krasnokutsk, SN, 4.vii.1992; 1 ♀, idem, SN, 10.vii.1992; 1 ♀, idem, SN, 11.vii.1992; *Kherson Reg.*: 1 ♀, Skadovsk Distr., Dzharylgach, SN, 28–29.vi.1978; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 9.vi.1998; *Kyiv Reg.*: 1 ♂, Kyiv, Feofania, SN, 16.vi.1979; 1 ♀, idem, SN, 17.viii.2010; 1 ♀, Kyiv, Irpin, SN, 8.ix.1979; 1 ♀, idem, SN, 8.viii.1982; 1 ♀, Kyiv, Puscha-Vodytsya, SN, 11.v.1983, leg. A. Kotenko; 2 ♂, Kyiv, Novosilky, SN, 4.v.1984, leg. V. Tolkanitz; 1 ♂, idem, SN, 14.v.1984; 1 ♀, 1 ♂, idem, SN, 14.vi.1984; 2 ♀, idem, SN, 4.vii.1984; 4 ♀, idem, SN, 6.ix.1984, leg. A. Kotenko; 2 ♀, idem, SN, 12.v.1985, leg. S. Zrashevsky; 2 ♀, Kyiv, Teremky, SN, 31.v.1980; 3 ♀, idem, SN, 21.vii.1981;

1 ♂, Kopachiv, SN, 8.vi.1980; 4 ♀, Kyiv, Motovylyivka, SN, 14.vii.1981; 1 ♂, Romashky, SN, 22.iv.1999; 1 ♀, Myronivka Distr., Velykiy Bukryn, SN, 1.vii.1999, leg. A. Kotenko; 2 ♀, Kyiv, SN, 18.viii.1973, leg. V. Tolkanitz; 1 ♀, idem, SN, 7.ix.1974, leg. V. Ermolenko; 2 ♀, Kyiv, Bilychi, SN, 15.v.2005, leg. M. Nesterov; *Lugansk Reg.*: 6 ♀, Anratsyt, SN, 8.vi.1975, leg. V. Tolkanitz; 1 ♀, Provalskiyi Steppe Reserve, SN, 21.vi.1979; 4 ♂, Novo-II-lyenko bio-station, SN, 1–2.v.1978; 2 ♀, idem, SN, 25.vi.1983; *Odesa Reg.*: 1 ♀, Tatarbunary, SN, 8.vi.1983, leg. A. Kotenko; *Ternopil Reg.*: 3 ♀, 2 ♂, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, Rakhiv, SN, 9.vii.1975; 1 ♀, idem, SN, 2.viii.1994, leg. A. Kotenko; *Rivne Reg.*: 1 ♀, Kamyanytsya, SN, 4.x.1980, V. Ermolenko; *Volyn Reg.*: 1 ♀, Kivertsi forestry, ex *Tortix viridana*, 26.vi.1977, leg. V. Kozak.

Distribution. Oriental and Palaearctic Regs; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Kyiv, Lugansk, Odesa, Ternopil, Transcarpathian, Rivne, Vinnytsya, and Volyn Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Apechthis rufata (Gmelin, 1790)

Records. Crimea, Dnipro, Kharkiv, Kherson, Vinnytsya (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 2 ♂, Kaniv Distr., Hryhorivka, SN, 14.v.2000; *Crimea*: 4 ♂, Angar Pass, SN, 10.vii.1979; 4 ♂, 1 km N of Angar Pass, SN, 11.vii.1979, leg. A. Kotenko; 1 ♂, Dubky, ex *Tortrix viridana*, vi.1983, leg. N. Podmarkov; *Donetsk Reg.*: 2 ♂, Khomutovskyi Steppe Reserve, SN, 24.vi.1979, leg. A. Kotenko; *Kharkiv Reg.*: 4 ♂, Krasnokutsk, SN, 4.vii.1992; 1 ♂, idem, SN, 9.vii.1992, leg. V. Tolkanitz; 1 ♀, idem, SN, 12.vii.1993, leg. S. Sviridov; *Kherson Reg.*: 1 ♂, Skadovsk Distr., Dzharylgach, SN, 28–29.vi.1978, leg. A. Kotenko; 1 ♂, Black Sea BR, Ivano-Rybalchanskyi area, ex *Tortrix viridana*, 5.vi.1980, leg. L. Zelinska; *Khmelnyskyi Reg.*: 5 ♀, Shydlyvtsi, SN, 28.vii.1988, leg. V. Tolkanitz; 3 ♂, Netishyn, SN, 29.vii.1999; *Kyiv Reg.*: 6 ♀, Kyiv, Teremky, SN, 21.vii.1981; 1 ♂, idem, SN, 2–8.v.2006; 2 ♂, Kyiv, Kruglyk, SN, 15.v.1982; 1 ♂, Kyiv, Novosilky, SN, 14.v.1984; 1 ♂, idem, SN, 16.v.1984; 1 ♂, idem, SN, 14.vi.1984; 2 ♀, 3 ♂, idem, SN, 4.vii.1984; 1 ♂, idem, SN, 4.vii.1984; 1 ♀, idem, SN, 6.ix.1984; 1 ♀, Kyiv, Feofania, SN, 17.viii.2010, leg. A. Kotenko; 1 ♀, Kyiv, SN, 18.viii.1973; *Lugansk Reg.*: 1 ♀, Stanytsya Luganska forestry, SN, 11–12.vi.1972; 5 ♀, 3 ♂, Anratsyt, SN, 8.vi.1975, leg. V. Tolkanitz; 3 ♂, Provalskiyi Steppe Reserve, SN, 21.vi.1979, leg. A. Kotenko; *Mykolaiv Reg.*: 1 ♂, Pervomaisk Distr., Kuripchyn, SN, 23.v.1980, leg. M. Nesterov; 1 ♂, idem, SN, 29.v.1999, leg. P. P. Sheshurak; *Ternopil Reg.*: 1 ♀, 1 ♂, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♂, Rakhiv, SN, 2.viii.1994, leg. A. Kotenko; *Vinnytsya Reg.*: 1 ♂, Oksanivka, SN, 22.vii.1988; 1 ♂, Vinnytsya ? forestry, SN, 12.vii.1988; 1 ♂, idem, SN, 27.vii.1988, leg. V. Tolkanitz; *Volyn Reg.*: 1 ♂, Kivertsi forestry, ex *Tortix viridana*, 26.vi.1977, leg. V. Kozak; *Zhytomyr Reg.*: 1 ♂, Lyubarka, ex *Autographa gamma* pupa, 3.iii.1978, leg. Z. Kljutschko; 2 ♀, Zhurzhevychi, SN, 15.ix.1978, leg. A. Kotenko.

Distribution. Oriental and Palaearctic Regs; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Kyiv, Lugansk, Odesa, Ternopil, Transcarpathian, Rivne, Vinnytsya, and Volyn Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–September.

Itopectis Förster, 1869

Itopectis alternans (Gravenhorst, 1829)

Records. Crimea, Cherkasy, Dnipro, Donetsk, Kharkiv, Kherson (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 21.v.1972; 1 ♀, idem, SN, 25.v.1972; 1 ♀, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz; 1 ♂, Kaniv Distr., Lukovytsya, SN, 22.iv.1999; 1 ♀, idem, SN, 5.vi.1999; 1 ♀, Kaniv Distr., Trakhtemyriv, SN, 15.v.2000; 1 ♀, SN, 3.6 km NE of Trakhtemyriv, Monastyrok, SN, 3.vii.1999; *Chernigiv Reg.*: 1 ♂, Ichnya, SN, 20.vi.2008, leg. A. Kotenko; *Crimea*: 1 ♀, Yalta, Demerdzhy, SN, 22.ix.1975, leg. A. Petrenko; 1 ♂, Izobilne, SN, 21.vi.1976; 1 ♀, kordon Asport, Chatyr-Dag, SN, 4.vii.1976; 1 ♀, 5 ♂, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 1 ♀, Kazantyp, SN, 1.vii.1977; 1 ♂, 1 km N of Angar Pass, SN, 11.vii.1979, leg. A. Kotenko; 1 ♀, Mnohoricchya, SN, 11–12.vii.1990, leg. V. Tolkanitz; 1 ♀, Alushta, SN, without date, leg. S. Kononova; *Donetsk Reg.*: 1 ♀, Svyatogirsk, SN, 7.vi.1975; 3 ♀, 1 ♂, Blagodatne, SN, 11.vi.1975, leg. V. Tolkanitz; 1 ♂, Khomutovskyi Steppe Reserve, SN, 24.vi.1979, leg. A. Lelei; 1 ♀, idem, SN, 31.v.1983; 1 ♀, 1 ♂, idem, SN, 2–3.vi.1983; 2 ♀, Kamyani Mohyly Reserve, Nazariivka, ex *Carduus*

sp., 12.viii.1982; 2 ♂, river Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983, leg. V. Tolkanitz; *Kharkiv Reg.*: 1 ♀, Krasnokutsk, SN, 11.vi.1992; 1 ♀, idem, SN, 15.vi.1992; 2 ♂, idem, SN, 4.vii.1992; 1 ♂, idem, SN, 9.vii.1992; 1 ♀, idem, SN, 10.vii.1992; 1 ♀, idem, SN, 11.vii.1992; *Kherson Reg.*: 2 ♂, Black Sea BR, Ivano-Rybalchanskyi area, SN, 4–5.v.1974; 1 ♀, idem, SN, 2.vi.1974; 1 ♂, idem, SN, 18.iv.1978; 7 ♀, 1 ♂, idem, SN, 13–14.viii.1978; 1 ♀, idem, SN, 8.ix.1978, leg. A. Kotenko; 2 ♀, idem, 1981, leg. L. Zelinska; 1 ♀, idem, ex *Tortrix viridana* pupa, 24.v.1982; 1 ♀, idem, 25.v.1982; 1 ♀, idem, 29.v.1982; 2 ♀, idem, 3.vi.1982; 3 ♀, idem, 5.vi.1982; 2 ♀, idem, 28.vi.1982, leg. L. Seryogina; 1 ♀, 1 ♂, idem, SN, 6.v.1982; 3 ♂, idem, SN, 11.vi.1982, leg. A. Kotenko; 1 ♂, idem, ex *Tortrix viridana* pupa, 6.vi.1991; 1 ♂, idem, 9.vi.1991; 1 ♀, idem, 12.vi.1991; 1 ♀, idem, 15.vi.1991; 1 ♀, idem, 16.vi.1991, leg. E. Valentyuk; 1 ♂, Black Sea BR, Solenoozernyi area, SN, 8.vi.1976; 1 ♂, idem, SN, 10.vi.1976; 1 ♂, idem, SN, 9.vi.1989; 1 ♂, Genichesk Distr., Byryuchy, SN, 7.vi.1979; 1 ♀, 1 ♂, 25–30 km of Genichesk, SN, 29.vi.1979; 1 ♀, 3 ♂, Black Sea BR, SN, 4.v.1982, leg. A. Kotenko; 1 ♀, Bekhtery, ex *Tortrix viridana* larva, 3.vi.1983, leg. L. Seryogina; *Khmelnyskyi Reg.*: 2 ♀, 2 ♂, Chemerovets Distr., Shydlyvtsi, SN, 28.vii.1988; 1 ♀, Letychiv Distr., Golovchyntsi, SN, 30.vii.1988, leg. V. Tolkanitz; 1 ♀, Netishyn, SN, 29.vii.1999; 1 ♂, idem, SN, 31.vii.1999, leg. A. Kotenko; *Kyiv Reg.*: 2 ♀, Kyiv, Golosievo, ex *Cymolomia hartigiana*, 12.vi.1967, leg. Yu. Kostyuk; 1 ♀, Bila Tserkva, SN, 31.vii.1970, leg. V. Tolkanitz; 1 ♀, Kyiv, Belichi, SN, 1.x.1975, leg. V. Ermolenko; 1 ♀, Kyiv, Novosilky, SN, 14.vii.1982, leg. V. Slovokhotov; 8 ♂, idem, SN, 4.v.1984, leg. V. Tolkanitz; 1 ♀, 4 ♂, idem, SN, 14.v.1984; 1 ♂, idem, SN, 16.v.1984; 1 ♀, idem, SN, 16.v.1984; 2 ♀, idem, SN, 24.v.1984; 1 ♀, idem, SN, 4.vi.1984; 1 ♀, idem, SN, 14.vi.1984; 2 ♀, 5 ♂, idem, SN, 14.vi.1984; 2 ♂, idem, SN, 26.vi.1984; 3 ♂, idem, SN, 4.vii.1984; 1 ♀, idem, SN, 6.ix.1984; 1 ♀, 80 km N of Kyiv, SN, 15.x.1979; 1 ♂, Kyiv, Teremky, SN, 31.v.1980, leg. A. Kotenko; 1 ♂, idem, SN, 18.v.1982, leg. S. Kononova; 1 ♀, idem, SN, 3.vi.1983, leg. S. Sviridov; 1 ♂, idem, SN, 2–8.v.2006; 1 ♀, idem, SN, 25–27.vi.2010; 1 ♀, idem, SN, 1.vii.2010; 1 ♂, Kyiv, Feofania, SN, 16.vi.1979; 1 ♀, idem, SN, 17.viii.2010; 3 ♀, Kyiv, Kruglyk, SN, 4.ix.1980; 2 ♀, idem, SN, 4.ix.1980; 1 ♀, idem, SN, 5.ix.1981; 5 ♂, idem, SN, 15.v.1982; 2 ♂, idem, SN, 18.ix.1983, leg. A. Kotenko; 1 ♀, Kyiv, Irpin, SN, 5.vi.1979, leg. V. Ermolenko; 2 ♀, Kyiv, Motovylyvka, SN, 14.vii.1981; 2 ♀, Kyiv, Gorbovychi, SN, 7–8.viii.1988, leg. A. Kotenko; 1 ♂, idem, apple orchard, ex *Yponomeuta malinella*, 30.vii.1984, leg. A. Tsybulsky; 1 ♀, idem, SN, 18.viii.1974, leg. V. Tolkanitz; 1 ♀, idem, SN, 6.vii.1983; 1 ♀, idem, SN, 21.vi.1985; 1 ♀, idem, SN, 17.vii.1985, leg. S. Sviridov; 1 ♂, idem, SN, 5.vii.1991; 1 ♂, idem, SN, 15.vii.1991; 1 ♂, idem, SN, 25.vii.1991, leg. E. Valentyuk; 1 ♀, 1 ♂, idem, SN, 11.ix.1991; 1 ♀, Myronivka Distr., Velykiy Bukryn, SN, 1.vii.1999; 1 ♀, Fastiv Distr., Kozhanka, SN, 24.vii.1999, leg. A. Kotenko; 1 ♀, Klavdievo-Tarasove, SN, 1.vii.1985, leg. A. Tsybulsky; *Lugansk Reg.*: 3 ♀, Pischane forestry, SN, 14.vi.1972; 2 ♀, Novo-Ilyenko bio-station, SN, 14.vi.1972, leg. V. Tolkanitz; 3 ♀, 3 ♂, idem, SN, 1–2.v.1978; 1 ♀, idem, SN, 25.vi.1983, leg. A. Kotenko; 1 ♀, Stanytsya Luganska, SN, 10.vi.1972; 1 ♀, 1 ♂, Stanytsya Luganska forestry, SN, 11–12.vi.1972; 2 ♂, river Derkul bank, SN, 11.vii.1972; 1 ♀, Provalskyi Steppe Reserve, SN, 9.vi.1975, leg. V. Tolkanitz; 1 ♂, idem, SN, 21.vi.1979, leg. A. Kotenko; 1 ♀, Lugansk NR, Strilt-sivskyi Steppe, SN, 7.v.1978; *Mykolaiv Reg.*: 4 ♂, Maryivka, SN, 14.vi.1976; 1 ♀, Ochakiv, SN, 15–17.viii.1978, leg. A. Kotenko; 3 ♀, Pervomaisk Distr., Kuripchyne, SN, 23.v.1980, leg. M. Nesterov; 1 ♀, Volyzhyn forest, ex *Tortrix viridana*, SN, 6.vi.1983; 1 ♀, without locality, ex *Tortrix viridana* pupa, 10.vi.1984, leg. L. Seryogina; *Poltava Reg.*: 1 ♂, Bulanove, SN, 1.v.1979; 1 ♀, Bairak, SN, 23.vi.1982; 1 ♀, Kuibyshiv Island, SN, 8.vii.1983, leg. A. Kotenko; *Odesa Reg.*: 3 ♀, Bilyaivka, SN, 2.vii.1974, leg. V. Tolkanitz; 2 ♂, Plavni, SN, 11.v.1979; 1 ♀, Tatarbunary, SN, 7.vi.1983; 1 ♀, Savran, SN, 17.vii.1988; 1 ♀, Balta, SN, 17.vii.1992; 2 ♀, Danube BR, Prymorske, SN, 3.ix.1995; 1 ♂, idem, SN, 16.ix.1995; 2 ♀, Danube BR, 5 km E of Vylkove, SN, 19–20.ix.1995, leg. A. Kotenko; *Rivne Reg.*: 1 ♀, Kamyanytsya, SN, 4.x.1980, leg. A. Kotenko, V. Ermolenko; 1 ♀, Varash, SN, 23.vi.2000, leg. A. Kotenko; 1 ♂, Klesiv forestry, SN, 14.vi.2008, leg. G. Nuzhna; *Ternopil Reg.*: 1 ♀, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♂, Uzhgorod, SN, 25.v.1955, leg. N. Telenga; 2 ♂, Glyboke, ex *Cemios-toma scitella*, 9.viii.1986, leg. G. Melika; 2 ♀, Rakhiv, SN, 1.viii.1994; 2 ♀, 1 ♂, idem, SN, 2.viii.1994, leg. A. Kotenko; *Volyn Reg.*: 1 ♀, Kivertsi forestry, ex *Tortrix viridana*, 26.vi.1977, leg. V. Kozak; 1 ♀, Vetly, SN, 30.vi.1977, leg. V. Odnosum; 1 ♀, Zalysytsya, E bank of Orikhove Lake, SN, 8.viii.1998, leg. A. Kotenko; *Zaporizhzhya Reg.*: 1 ♀, 2 ♂, Vasylivka Distr., Lysa Gora, SN, 2.vii.1970; 1 ♀, 2 ♂, idem, SN, 11.vii.1974; 1 ♂, idem, SN, 7.v.1978, leg. V. Tolkanitz; 1 ♀, idem, SN, 18.vii.1993, leg. A. Kotenko; 1 ♀, Vasylivka, SN, 24.viii.1972; 1 ♀, idem, SN, 13–14.vii.1974; 1 ♀, idem, SN, 10.vii.1981; 1 ♀, 2 ♂, Staroberdyanskyi Reserve, SN, 10.v.1978; 1 ♂, idem, SN, 7.vii.1981, leg. V. Tolkanitz; 1 ♂, Obytichna Spit, SN, 27.vi.1979; 1 ♀, Vasylivka Distr., Pidhirne, SN, 5.vii.1980; *Zhytomyr Reg.*: 2 ♀, Zhurzhevychi, SN, 15.ix.1978, leg. A. Kotenko.

Distribution. Oriental and Palaearctic Regs; Ukraine: Cherkasy, Chernigiv, Crimea, Dnipro, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv Lugansk, Mykolaiv, Odesa, Poltava, Rivne, Ternopil, Transcar-

pathian, Volyn, Zaporizhzhya, and Zhytomyr Regs.
Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

***Itopectis aterrima* Jussila, 1965**

Records. Kharkiv (Kasparyan, 1973), Ivano-Frankivsk and Transcarpathian (Varga, 2017b) Regions.

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Ivano-Frankivsk, Kharkiv and Transcarpathian Regs.

Biology. CMF, EEFS. July–August.

***Itopectis clavicornis* (Thomson, 1889)**

Records. Ukraine (Kasparyan & Khalaim, 2007).

Material examined. *Crimea*: 1 ♀, kordon Asport, SN, 22.vi.1976, leg. A. Kotenko.

Distribution. Holarctic; Ukraine: Crimea.

Biology. CSF. June.

***Itopectis curticauda* (Kriechbaumer, 1887)**

Records. New record.

Material examined. *Transcarpathian Reg.*: 1 ♀, Svalyava Distr., Polyana, abandoned apple orchard, SN, 7–9.vii.1986, leg. V. Tolkanitz.

Distribution. Holarctic; Ukraine: Transcarpathian Reg.

Biology. CMF. July.

***Itopectis insignis* Perkins, 1957**

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2017b).

Material examined. *Kherson Reg.*: 1 ♀, Black Sea BR, Solenoozernyi area, SN, 28–29.v.1978, leg. A. Kotenko.

Distribution. Western Palaearctic; Ukraine: Ivano-Frankivsk, Kherson and Transcarpathian Regs.

Biology. CMF, PS. May–August.

***Itopectis maculator* (Fabricius, 1775)**

Records. Crimea, Dnipro, Kharkiv, Kherson, Vinnytsya (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 19.v.1972; 1 ♀, Kaniv NR, Maryina Gora, SN, 27.v.1972; 2 ♀, Zolotonosha Distr., Chekhivka, SN, 22.viii.1984, leg. V. Tolkanitz; 2 ♀, Kaniv Distr., Lukovytsya, SN, 5.vi.1999, leg. A. Kotenko; *Chernivtsi Reg.*: 1 ♀, Zastavna Distr., 14–16.v.1985; 2 ♂, idem, SN, 12.vi.1985, leg. A. Tsybulsky; *Crimea*: 1 ♂, kordon Vilhova Polyana, ex *Tortrix viridana* pupa, 8.vi.1963; 1 ♀, 8 ♂, idem, 9.vi.1963, leg. Yu. Kostyuk; 1 ♀, 1 ♂, Partyzanske, SN, 10.vi.1970; 1 ♂, Simferopol, SN, 12.vi.1970; 1 ♂, Kazantyp, SN, 14.vi.1970; 1 ♂, idem, SN, 14.vi.1970; 3 ♀, 6 ♂, Agarlysh, SN, 16.vi.1970; 2 ♀, 4 ♂, idem, SN, 17.vi.1970, leg. V. Tolkanitz; 1 ♂, Angar Pass, SN, 27.vi.1972, leg. V. Dolin; 3 ♀, 21 km of Alushta, SN, 19.vi.1976; 3 ♀, kordon Taryer, SN, 27.vi.1976, leg. A. Kotenko; 1 ♀, kordon Asport, SN, 24.vi.1976, leg. V. Tolkanitz; 1 ♀, idem, SN, 28.vi.1976, leg. A. Kotenko; 1 ♀, Svitla Polyana, SN, 29.vi.1976; 1 ♀, idem, SN, 3.vii.1976, leg. V. Tolkanitz; 2 ♀, Savytski Sady, SN, 15.vi.1978; 2 ♀, idem, SN, 30.vi.1976, leg. A. Kotenko; 2 ♀, idem, SN, 28.vi.1976; 1 ♀, 4 ♂, Izobilne, SN, 21.vi.1976, leg. V. Tolkanitz; 1 ♀, 3 km of Izobilne, SN, 14.v.1969, leg. S. Sviridov; 1 ♀, Chuhelskyi Pass, SN, 14.iv.1978, leg. A. Kotenko; 1 ♂, Kara-Dag, SN, 8.vi.1978, leg. Pshebelska; 1 ♀, idem, SN, 9–10.vi.1978; 1 ♀, idem, SN, 8.vii.1979; 1 ♂, 7 km N of Alushta, SN, 17.vii.1979; 1 ♀, Tankove, SN, 18.vii.1979; 1 ♀, 5 km N of Olenivka, SN, 25.vii.1979, leg. A. Kotenko; 7 ♂, near Chatyr-Dag, SN, 8.vi.1989, leg. T. Nikitenko; 1 ♂, Schaslyve, SN, 10–11.vii.1990, leg. V. Tolkanitz; 5 ♀, Opuk, SN, 17.vi.1998; 3 ♀, 1 ♂, idem, SN, 18–19.vi.1998, leg. A. Kotenko; 1 ♀, Ai-Petri, 1200 m, SN, 8.vii.2003, leg. S. Simutnik; 1 ♀, Lavanda, SN, 3.vii.2004, leg. M. Nesterov; 1 ♂, 5 km E of Pcholyne, SN, 22.vi.2010, leg. Plusch; *Donetsk Reg.*: 1 ♂, Khomutovskyi Steppe Reserve, SN, 24.vi.1979, leg. A. Kotenko; 1 ♀, river Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983, leg. V. Tolkanitz; *Kherson Reg.*: 1 ♀, Black Sea BR, kordon Kadetskogo, SN, 25.vi.1970, leg. A. Kotenko; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 2.vi.1974; 4 ♀, idem, SN, 12–18.vii.1974; 1 ♀, idem, SN, 20.vii.1974, leg. V. Tolkanitz; 1 ♂, idem, SN, 5.vi.1980; 3 ♀, 1 ♂, idem, ex *Tortrix viridana*, 1981, leg. L. Zelinska; 3 ♀, 2 ♂, idem, 3.vi.1982;

3 ♀, idem, 5.vi.1982; 1 ♀, idem, 29.v.1983, leg. L. Seryogina; 1 ♀, idem, SN, 27.v.1982, leg. V. Tolkanitz; 1 ♀, idem, SN, 11.vi.1982, leg. A. Kotenko; 1 ♂, idem, ex *Tortrix viridana*, 6.vi.1991, leg. E. Valentyuk; 3 ♂, idem, SN, 10.vi.1983; 3 ♂, idem, SN, 11.vi.1991; 3 ♀, 5 ♂, idem, SN, 9.vi.1998, leg. A. Kotenko; 1 ♀, Black Sea BR, Solenoozernyi area, SN, 25–27.v.1976; 1 ♀, idem, SN, 30.v–1.vi.1976, leg. V. Tolkanitz; 2 ♂, idem, SN, 8.vi.1976, leg. A. Kotenko; 9 ♀, Oleksandrivka, SN, 4.vi.1974; 7 ♀, idem, SN, 5.vi.1974; 18 ♀, idem, SN, 6.vi.1974; 14 ♀, 1 ♂, idem, SN, 18.vi.1975, leg. V. Tolkanitz; 1 ♀, Burkuty, SN, 24.vi.1978; 1 ♀, 1 ♂, idem, SN, 26.vi.1978; 4 ♀, 3 ♂, Skadovsk Distr., Dzharylgach, SN, 28–29.vi.1978; 1 ♂, Genichesk Distr., Byryuchyi, SN, 10.vi.1979; 1 ♀, 1 ♂, 25–30 km of Genichesk, SN, 29.vi.1979, leg. A. Kotenko; 3 ♀, Bekhtery, ex *Tortrix viridana*, 20.v.1984, leg. L. Seryogina; 1 ♀, Black Sea BR, Potnevskiy area, SN, 15.vi.1989; *Khmelnyskyi Reg.*: 1 ♀, Slavuta Distr., near Svyate Lake, SN, 20.vi.1999; 1 ♀, 6 km N of Shepetivka, SN, 24.vi.1999; 1 ♀, Netishyn, SN, 10.viii.1999; *Kyiv Reg.*: 1 ♀, Oleksandriya National Dendrological Park, v.1975, leg. T. Bulgakova; 1 ♀, Kyiv, Darnytsya, SN, 17.viii.1975, leg. V. Ermolenko; 2 ♀, Kyiv, Feofania, SN, 16.vi.1979, leg. A. Kotenko; 3 ♀, idem, SN, 18.v.1983, leg. V. Tolkanitz; 1 ♀, Kyiv, Teremky, apple orchard, SN, 28.vi.1982, leg. S. Kononova; 1 ♂, Kyiv, Kruglyk, SN, 1.v.1983, leg. A. Kotenko; 1 ♀, idem, ex *Archips rosana* pupa, 10.vi.1982, leg. V. Slovkhotov; 1 ♂, idem, SN, 8.vi.1982; 1 ♂, idem, SN, 10.vi.1982; 1 ♂, SN, 15.vi.1982, leg. S. Sviridov; 1 ♂, idem, ex *Tortrix viridana* pupa, 10.vi.1984; 1 ♀, idem, 14.vi.1984, leg. S. Seryogina; 1 ♂, idem, 1.vii.1991, leg. E. Valentyuk; 7 ♀, idem, SN, 24.v.1984, leg. A. Kotenko; 3 ♀, idem, SN, 24.v.1984, leg. V. Tolkanitz; 1 ♀, idem, SN, 26.vi.1984, leg. A. Kotenko; 1 ♂, Klavdievo-Tarasove, SN, 12.vii.1985, leg. A. Tsybulsky; 2 ♂, Yagotyn Distr., SN, 14.v.1983, leg. A. Tsybulsky; 1 ♀, idem, SN, 22.vi.1987, leg. G. Nikitenko; 1 ♂, Yagotyn, SN, 17.vi.1987, leg. S. Sviridov; 2 ♂, idem, SN, 29.vi.1988, leg. G. Nikitenko; 1 ♂, Kyiv, Pyrogiv, SN, 12.viii.2000; *Mykolaiv Reg.*: 1 ♂, Berezneguvate, SN, 8.v.1974; 17 ♀, 41 ♂, Maryivka, SN, 14.vi.1976, leg. A. Kotenko; 2 ♀, Volyzhyn forest, ex *Tortrix viridana*, 7.vi.1983; 2 ♀, idem, 10.vi.1983, leg. L. Seryogina; 1 ♂, Tashyne, SN, 12–14.vi.2010, leg. G. Nuzhna; *Odesa Reg.*: 1 ♀, Staromanzyskyi Reserve, SN, 12.vi.1974; 2 ♀, idem, SN, 14.vi.1974, leg. V. Tolkanitz; 2 ♀, idem, ex *Tortrix viridana* pupa, collected 6.vi.1983, reared 10.vi.1983, leg. A. Kotenko; 1 ♀, Oleksandrivka, SN, 6.vi.1974, leg. V. Tolkanitz; 2 ♀, Lisne, ex *Tortrix viridana*, 14.vi.1984, leg. L. Seryogina; 2 ♀, Plavni, SN, 21.vi.1974, leg. S. Kononova, V. Ermolenko; 1 ♀, Bilyaivka, SN, 28.vi.1974; 1 ♀, idem, SN, 29.vii.1974; 1 ♀, Dachne, SN, 23.vi.1977, leg. V. Tolkanitz; 2 ♀, 1 ♂, Tatarbunary, SN, 7.vi.1983; 2 ♀, 2 ♂, idem, SN, 8.vi.1983, leg. A. Kotenko; 1 ♀, Danube BR, Prymorske, SN, 1.ix.1996, leg. E. Maksymovych; *Poltava Reg.*: 1 ♀, Myrgorod, Ostriv, SN, 29.vi.1984, leg. A. Kotenko; *Ternopil Reg.*: 1 ♀, Medobory NR, SN, 12.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, Uzhgorod, SN, 24.vi.1955, leg. N. Telenga; *Vinnysya Reg.*: 1 ♀, Gopchytsya, SN, 12.vii.1960; 16 ♀, 7 ♂, Putlivtsi, ex *Agonopterix nervosa* pupa, 14–20.vii.1982, leg. Nazarov; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka, SN, 23–24.v.1974.

Distribution. Palaearctic; Ukraine: Cherkasy, Chernivtsi, Crimea, Dnipro, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Mykolaiv, Odesa, Poltava, Ternopil, Transcarpathian, Vinnysya, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–September.

Itopectis melanocephala (Gravenhorst, 1829)

Records. Dnipro, Kharkiv, Vinnysya (Kasparyan, 1973), and Ivano-Frankivsk (Varga, 2017b) Regions.

Material examined. *Kyiv Reg.*: 1 ♂, Kyiv, Pyrogiv, SN, 12.viii.2000; *Odesa Reg.*: 1 ♀, Tatarbunary, SN, 7.vi.1983; 1 ♀, Danube BR, Prymorske, SN, 5.ix.1995; 2 ♀, idem, SN, 12–14.ix.1995; 1 ♀, idem, SN, 16.ix.1995; 7 ♀, 1 ♂, Danube BR, Ermakov Island, SN, 15.ix.1995; 2 ♀, Danube BR, 4 km W of Shevchenkove, SN, 11.ix.1995; 1 ♀, Danube BR, 5 km E of Vylkove, SN, 9.ix.1995; 4 ♀, idem, SN, 19–20.ix.1995, leg. A. Kotenko; *Vinnysya Reg.*: 3 ♀, 1 ♂, Putlivtsi, ex *Agonopterix nervosa* pupa, 14–20.vii.1982; 1 ♀, 1 ♂, idem, 27–30.vi.1983, leg. Nazarov; 1 ♀, *Volyn Reg.*: Kovel Distr., Vetly, SN, 20.viii.1998, leg. A. Kotenko.

Distribution. Afrotropical and Palaearctic Regs; Ukraine: Dnipro, Ivano-Frankivsk, Kharkiv, Kyiv, Odesa, Vinnysya, and Volyn Regs.

Biology. CMF, CEMF, EEFS, PS. June–September.

Itopectis tunetana (Schmiedeknecht, 1914)

Records. Crimea, Kherson (Kasparyan, 1973) and Ivano-Frankivsk (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♂, Kaniv NR, SN, 23.v.1972; *Crimea*: 1 ♂, Svitla Polyana, SN, 29.vi.1976; 1 ♀, idem, SN, 3.vii.1976, leg. V. Tolkanitz; 2 ♀, kordon Asport, SN, 12.vi.1978; 1 ♀, 2 ♂, Olenivka, SN, 25.vii.1979,

leg. A. Kotenko; 5 ♀, 2 ♂, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; *Donetsk Reg.*: 1 ♂, Khomutovskyi Steppe Reserve, SN, 20.iv.1978; 1 ♂, idem, SN, 28.iv.1978; 1 ♀, Kryva Luka, SN, 21.vi.1983, leg. A. Kotenko; *Kherson Reg.*: 1 ♀, 5 km of Bekhtery, SN, 23.ix.1976; 1 ♀, 1 ♂, Black Sea BR, Solenoozernyi area, SN, 25–27.v.1976; 5 ♂, idem, SN, 30.v–1.vi.1976, leg. V. Tolkanitz; 1 ♂, idem, SN, 9.vi.1989; 2 ♂, idem, SN, 10.vi.1976; 1 ♂, ex *Coscinia cribrum*, SN, 2.vi.1978; 2 ♂, Burkuty, SN, 26.vi.1978; 2 ♀, Skadovsk Distr., Dzharylgach, SN, 28–29.vi.1978; 4 ♀, 2 ♂, Black Sea BR, Tendrivska Spit, SN, 9.viii.1978; 3 ♀, 6 ♂, 25–30 km of Genichesk, SN, 29.vi.1979; 2 ♂, Black Sea BR, Ivano-Rybalchansk area, SN, 10.vi.1983; 3 ♀, 1 ♂, Genichesk Distr., Byryuchyi, SN, 7.vi.1979, leg. A. Kotenko; 1 ♀, idem, SN, 25–26.viii.1983, leg. V. Tolkanitz; *Kyiv Reg.*: 2 ♀, Kyiv, ex *Yponomeuta cognatella*, vi.1965, leg. Z. Gershenzon; 1 ♀, Kyiv, Sofiiivka, SN, 28–29.vii.1970; *Odesa Reg.*: 2 ♀, Erma-kov Island, SN, 7.vi.1995; 1 ♂, Danube BR, Prymorske, SN, 2.ix.1995; 1 ♀, 1 ♂, idem, SN, 3.ix.1995; 2 ♀, idem, SN, 16.ix.1995; 1 ♀, Danube BR, 4 km W of Shevchenkove, SN, 8.ix.1995; 1 ♀, Danube BR, 5 km E of Vylkove, SN, 9.ix.1995, leg. A. Kotenko; *Ternopil Reg.*: 1 ♀, Medobory NR, SN, 12.viii.1994, leg. V. Tolkanitz; *Zaporizhzhya Reg.*: 2 ♀, Vasylivka Distr., Lysa Gora, SN, 2.v.1978; 2 ♀, 1 ♂, Staroberdyanskyi Reserve, SN, 10.v.1978; 2 ♀, 2–3 km S of Vasylivka, SN, 9.vii.1980, leg. V. Tolkanitz.

Distribution. Afrotropical and Palaearctic Regs; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kherson, Kyiv, Odesa, Ternopil, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, EEFS, PS. April–September.

Itopectis viduata (Gravenhorst, 1829)

Records. Crimea, Kharkiv, Kherson, Khmelnytskyi, Vinnytsya, Odesa (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 16.ix.1988, leg. O. Chervonenko; 1 ♂, Kaniv Distr., SN, 3.6 km NE of Trakhtemyriv, Monastyrok, SN, 3.vii.1999; 1 ♂, Kaniv Distr., Lukovytsya, SN, 4.vii.1999, leg. A. Kotenko; *Crimea*: ♂, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 1 ♀, Kara-Dag, vii.1994, leg. E. Rutian; *Donetsk Reg.*: 1 ♀, 1 ♂, Khomutovskyi Steppe Reserve, SN, 14.vi.1975, leg. V. Tolkanitz; 1 ♀, 1 ♂, idem, SN, 14.vi.1975, leg. V. Ermolenko; 1 ♂, idem, SN, 20.iv.1978; 2 ♂, idem, SN, 28.iv.1978; 2 ♂, idem, SN, 24.vi.1979; 2 ♂, idem, SN, 25.vi.1979, leg. A. Kotenko; 1 ♂, Oleksandrivka, SN, 5.vi.1974, leg. V. Tolkanitz; *Kharkiv Reg.*: 1 ♂, Efremivka, SN, 15.vii.1985, leg. Narosky; *Kherson Reg.*: 1 ♂, Black Sea BR, Solenoozernyi area, SN, 21.vii.1974; 1 ♂, idem, SN, 25–27.v.1976; 2 ♂, idem, SN, 30.v–1.vi.1976, leg. V. Tolkanitz; 1 ♂, idem, SN, 25.viii.1981, leg. V. Pshebelska; 1 ♂, idem, SN, 1.vi.1983; 1 ♂, idem, SN, 9.vi.1989; 2 ♀, 2 ♂, Black Sea BR, Ivano-Rybalchanskyi area, SN, 21–22.iv.1978, leg. A. Kotenko; 1 ♂, idem, SN, 26.v.1982, leg. V. Tolkanitz; 1 ♂, idem, SN, 10.vi.1983; 4 ♂, Burkuty, SN, 23.vi.1978; 1 ♀, 2 ♂, idem, SN, 24.vi.1978; 3 ♂, idem, SN, 26.vi.1978; 3 ♂, 25–30 km of Genichesk, SN, 29.vi.1979; 2 ♂, Skadovsk Distr., Dzharylgach, SN, 28–29.vi.1978, leg. A. Kotenko; 1 ♀, 1 ♂, idem, SN, 2.ix.1983, leg. V. Tolkanitz; *Khmelnytskyi Reg.*: 1 ♀, Chemerovets Distr., Zaluchchya, SN, 29.vii.1988, leg. V. Tolkanitz; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 7.viii.1977; 1 ♀, Kopachiv, SN, 8.vi.1980; 1 ♀, Kyiv, Gorbovychi, SN, 7–8.viii.1988, leg. A. Kotenko; 2 ♂, Pyrogiv, SN, 25.vi.2005, leg. M. Nesterov; *Lugansk Reg.*: 1 ♂, Lugansk NR, Striltsivskyi Steppe, SN, 7.v.1978, leg. A. Kotenko; *Ternopil Reg.*: 1 ♀, Medobory NR, SN, 12.viii.1994; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka Distr., Lysa Gora, SN, 11.vii.1974, leg. V. Tolkanitz; 3 ♀, 2 ♂, Obytichna Spit, SN, 27.vi.1979, leg. A. Kotenko; 1 ♀, idem, SN, 22.viii.1982, leg. S. Kononova; 1 ♂, idem, SN, 23–24.viii.1982; 1 ♂, Vasylivka Distr., Pidhirne, SN, 5.vii.1980; 1 ♂, Melitopol, SN, 12.viii.1981, leg. V. Dolin.

Distribution. Holarctic; Ukraine: Cherkasy, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Lugansk, Odesa, Ternopil, Transcarpathian, Vinnytsya, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, EEFS, PS, PMF. April–September.

Pimpla Fabricius, 1804

Pimpla aethiops Curtis, 1828

Records. New record.

Material examined. *Crimea*: 2 ♂, Mizhvodne, SN, 28.viii.2010, leg. O. Varga; *Odesa Reg.*: 1 ♀, Danube BR, Prymorske, SN, 2.ix.1995, leg. A. Kotenko.

Distribution. Oriental and Palaearctic Regs; Ukraine: Crimea and Odesa Regs.

Biology. PS. August–September.

***Pimpla arcadica* Kasparyan, 1973**

Records. Crimea (Kasparyan, 1973)

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Crimea.

Biology. CSF. May–June.

***Pimpla arctica* Zetterstedt, 1838**

Records. Ivano-Frankivsk and Transcarpathian Regions (Varga, 2017b).

Material examined. Literature data only.

Distribution. Oriental and Palaearctic Regs; Ukraine: Ivano-Frankivsk and Transcarpathian Regs.

Biology. CMF. June–July.

***Pimpla contemplator* (Muller, 1776)**

Records. Crimea, Kharkiv (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 2 ♂, Uman, Dmytrushky, SN, 30.vii.1970; 1 ♂, Kaniv NR, SN, 21.v.1972; 1 ♂, idem, SN, 25.v.1972; 1 ♂, Buchak, SN, 2.vi.1973, leg. V. Tolkanitz; 1 ♀, Kaniv Distr., Hryhorivka, SN, 5.vii.1999; *Chernigiv Reg.*: 1 ♂, 8 km W of Ichnya, SN, 31.v.2008, leg. A. Kotenko; *Crimea*: 1 ♂, Shovkovychne, SN, 11.vi.1970, leg. V. Tolkanitz; 1 ♂, kordon Taryer, SN, 27.vi.1976, leg. A. Kotenko; 1 ♀, kordon Asport, Chatyr-Dag, SN, 4.vii.1976, leg. V. Tolkanitz; 1 ♀, 1 ♂, kordon Asport, SN, 1.vi.1976; 3 ♂, idem, SN, 2.vi.1976; 1 ♀, 3 ♂, idem, SN, 22.vi.1976; 1 ♂, idem, SN, 24.vi.1976; 7 ♂, idem, SN, 28.vi.1976; 2 ♂, idem, SN, 29.vi.1976, leg. A. Kotenko; 6 ♂, Svitla Polyana, SN, 3.vii.1976, leg. V. Tolkanitz; 1 ♀, 1 ♂, idem, SN, 4–5.vi.1978, leg. Pshebelska; 1 ♀, 1 ♂, Savytski Sady, SN, 30.vi.1976, leg. A. Kotenko; 2 ♂, Kara-Dag, SN, 7.vi.1978, leg. Pshebelska; 1 ♀, idem, SN, 8.vii.1979; 3 ♀, Laspi, SN, 21.vii.1979; 2 ♀, 5 ♂, idem, SN, 22.vii.1973, leg. A. Kotenko; 1 ♀, 2 ♂, Staryi Krym, SN, 4.vii.1979; 2 ♀, 6 ♂, idem, SN, 5.vii.1979, leg. V. Tolkanitz; 1 ♂, Kanaka, SN, 19.v.1982, leg. A. Kotenko; 4 ♂, Schaslyve, SN, 10–11.vii.1990; 1 ♂, idem, SN, 11–12.vii.1990; 1 ♂, Mnohoricchya, SN, 11–12.vii.1990, leg. V. Tolkanitz; 27 ♀, 14 ♂, Martyan Cape, YPT, 1–8.viii.2010, leg. V. Fursov; *Donetsk Reg.*: 1 ♂, Khomutovskyi Steppe Reserve, SN, 25.vi.1979, leg. A. Kotenko; 1 ♂, idem, SN, 2–3.vi.1983, leg. V. Tolkanitz; 1 ♂, idem, SN, 28.ix.2002, leg. V. Fursov; 2 ♂, river Gruzkyi Yelanchyk floodplain, SN, 1.vi.1983; *Kharkiv Reg.*: 1 ♂, Goncharivka, SN, 5–6.vi.1975, leg. V. Tolkanitz; 1 ♀, 4 ♂, Vovchansk Distr., Bochkove, SN, 26.vii.1984, leg. A. Kotenko; 1 ♀, Krasnokutsk, SN, 23.viii.1982, leg. M. Narolsky; 2 ♀, 9 ♂, idem, SN, 9.vi.1992; 2 ♀, 3 ♂, idem, SN, 15.vi.1992; 5 ♂, idem, SN, 9.vii.1992; 3 ♂, idem, SN, 10.vii.1992; 1 ♂, idem, SN, 11.vii.1992; 1 ♀, 5 ♂, Sharivka, SN, 14.vi.1992, leg. A. Kotenko; *Kherson Reg.*: 2 ♀, 1 ♂, Oleksandrivka, SN, 5.vi.1974; 1 ♂, Black Sea BR, Solenoozernyi area, SN, 6.vi.1976, leg. V. Tolkanitz; 3 ♂, idem, SN, 10.vi.1976; 1 ♀, 5 km of Bekhtery, SN, 23.ix.1976; 1 ♂, Burkuty, SN, 23.vi.1978; 4 ♂, idem, SN, 26.vi.1978; 1 ♂, Genichesk Distr., Byryuchy, SN, 7.vi.1979; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 8.ix.1978; 2 ♂, idem, SN, 6.v.1982, leg. A. Kotenko; 5 ♂, idem, SN, 25.v.1982, leg. V. Tolkanitz; 1 ♀, 1 ♂, idem, SN, 11.vi.1982; 5 ♂, idem, SN, 10.vi.1983; 1 ♂, Gola Prystan, Gopri, SN, 3.vi.1982, leg. A. Kotenko; 4 ♂, Skadovsk Distr., Krasne, SN, 4.v.1983, leg. M. Nesterov; 1 ♂, idem, SN, 4.v.1989, leg. M. Nesterov; 1 ♂, Gola Prystan, SN, 30.v.1985, leg. N. M. Narolsky; *Khmelnyskyi Reg.*: 4 ♀, 12 ♂, Chemerovets Distr., Shydlyvtsi, SN, 28.vii.1988; 1 ♂, Letychiv Distr., Golovchyntsi, SN, 30.vii.1988, leg. V. Tolkanitz; 1 ♂, 3 km E of Slavuty, SN, 24.vi.1999, leg. A. Kotenko; *Kyiv Reg.*: 1 ♂, Kyiv, Darnytsya, SN, 27.v.1970, leg. V. Tolkanitz; 1 ♂, Kyiv, Irpin, SN, 7.viii.1977; 1 ♂, idem, SN, 8.viii.1982; 5 ♂, Kyiv, Novosilky, SN, 4.vi.1982; 8 ♀, 5 ♂, idem, SN, 4.vi.1984, leg. A. Kotenko; 3 ♀, 5 ♂, idem, SN, 4.vi.1984, leg. V. Tolkanitz; 1 ♀, idem, SN, 26.vi.1984, leg. A. Kotenko; 7 ♂, idem, SN, 26.vi.1984, leg. V. Tolkanitz; ♂ 7, idem, SN, 4.vii.1984; 5 ♂, idem, SN, 14.v.1984; 21 ♀, 3 ♂, idem, SN, 16.v.1984; 6 ♂, idem, SN, 23.vi.1984; 9 ♀, 2 ♂, idem, SN, 24.v.1984, leg. A. Kotenko; 3 ♀, idem, SN, 24.v.1984, leg. V. Tolkanitz; 3 ♀, 17 ♂, idem, SN, 14.vi.1984; 1 ♀, 2 ♂, idem, SN, 4.vii.1984, leg. A. Kotenko; 7 ♀, 14 ♂, idem, SN, 14.vii.1984, leg. V. Tolkanitz; 1 ♀, 6 ♂, idem, SN, 12.v.1985, leg. S. Zrashevsky; 2 ♂, Kyiv, Teremky, SN, 31.v.1980; 2 ♂, idem, SN, 22.vi.1980; 1 ♂, idem, SN, 19.vii.1980; 1 ♂, idem, SN, 21.vii.1981, leg. A. Kotenko; 2 ♂, idem, SN, 8.v.1982, leg. S. Kononova; 2 ♀, 7 ♂, idem, 25–27.vi.2010; 1 ♀, idem, SN, 15.vii.2010; 4 ♂, idem, SN, 22.vii.2010; 2 ♂, Kyiv, Kruglyk, SN, 4.ix.1980; 1 ♀, idem, SN, 5.ix.1981; 2 ♂, idem, SN, 15.v.1982, leg. A. Kotenko; 2 ♂, Kyiv, Sofiiivka, 28–29.vii.1970; 1 ♀, 1 ♂, Kyiv, Fastiv, SN, 11.vii.1972, leg. V. Tolkanitz; 2 ♂, Kyiv, SN, 22.v.1977, leg. A. Kotenko; 1 ♂, Kyiv, Darnytsya, SN, 7.vi.1978; 2 ♀, 14 ♂, Kyiv, Feofania,

SN, 18.v.1983, leg. V. Tolkanitz; 4 ♂, Kyiv, Lysa Gora, SN, 27.vi.1993; 2 ♀, 9 ♂, Fastiv Distr., Kozhanka, SN, 24.vii.1999; 1 ♂, Myronivka Distr., Velykyi Bukryn, SN, 1.vii.1999; ♂, Kyiv, Pyrogiv, SN, 12.viii.2000, leg. A. Kotenko; 1 ♂, Khodosivka, SN, 6.v.2005, leg. M. Nesterov; 1 ♂, Bilogorodka, SN, 25.vi.2009, leg. A. Kotenko; *Lugansk Reg.*: 2 ♂, Stanytsya Luganska forestry, 11–12.vi.1972; 1 ♂, r. Derkul bank, SN, 11.vii.1972; 1 ♂, Anratsyt, SN, 8.vi.1975, leg. V. Tolkanitz; 2 ♀, Provalskyi Steppe Reserve, SN, 21.vi.1979; 2 ♂, Novo-Ilyenko bio-station, SN, 25.vi.1983, leg. A. Kotenko; 1 ♀, 5 ♂, Lugansk NR, SN, 25.vi.1983, leg. A. Kotenko; *Mykolaiv Reg.*: 4 ♀, 1 ♂, Ochakiv, SN, 15–17.viii.1978; 1 ♂, Maryivka, SN, 14.vi.1976; 1 ♂, Volyzhyn forest, SN, 10.vi.1980; *Odesa Reg.*: 3 ♂, Staromanzyskyi Reserve, SN, 5.vi.1983, leg. A. Kotenko; 1 ♀, 5 ♂, idem, SN, 14.vi.1974; 1 ♂, Bilyaivka, SN, 2.vii.1974, leg. V. Tolkanitz; 2 ♀, 1 ♂, Savran, SN, 17.vii.1988; 1 ♂, Ermakov Island, SN, 7.vi.1995; *Poltava Reg.*: 2 ♂, Myrgorod, Ostriv, SN, 9.viii.1982; 1 ♂, idem, SN, 29.vi.1984; 3 ♂, Kuibyshev Island, SN, 8.vii.1983, leg. A. Kotenko; *Ternopil Reg.*: 1 ♀, 1 ♂, Zalyshchyky, SN, 26.vii.1988; 1 ♂, idem, SN, 27.vii.1988; 3 ♀, 5 ♂, Medobory NR, SN, 25.v.1994; 1 ♀, 3 ♂, idem, SN, 9.viii.1994; 2 ♂, idem, SN, 10.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♂, Antalovetska Polyana, SN, 10.vii.1953, leg. N. Telenga; 2 ♂, Rakhiv, SN, 10.vii.1996, leg. V. Ermolenko; *Vinnitsya Reg.*: 2 ♂, Vinnitsya ? forestry, SN, 12.vii.1988; 1 ♂, Granitne, SN, 14–15.vii.1988; *Zaporizhzhya Reg.*: 1 ♂, Vasylivka, SN, 13–14.vii.1974; 1 ♂, Staroberdyanskyi Reserve, SN, 10.v.1978, leg. V. Tolkanitz; 2 ♂, idem, SN, 12.vi.1983, leg. A. Kotenko; 1 ♀, 4 ♂, 2–3 km S of Vasylivka, SN, 9.vii.1980, leg. V. Tolkanitz; 3 ♂, Granychne, SN, 18.vi.1983; 5 ♀, 8 ♂, Vasylivka Distr., Lysa Gora, SN, 18.vii.1993, leg. A. Kotenko.

Distribution. Palaearctic; Ukraine: Cherkasy, Chernigiv, Crimea, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Lugansk, Mykolaiv, Odesa, Poltava, Ternopil, Transcarpathian, Vinnitsya, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, EEFS, PS, PMF. April–October.

Pimpla femorella Kasparyan, 1974 (Fig. 17)

Records. New record.

Material examined. *Kyiv Reg.*: 3 ♀, Kyiv, Khotiv, SN, 11.vii.1980; leg. A. Kotenko.

Distribution. Eastern Palaearctic, Western Palaearctic (new record); Ukraine: Kyiv Reg.

Biology. CEMF. July.

Pimpla flavicoxis Thomson, 1877

Records. Kharkiv (Kasparyan, 1973), Ivano-Frankivsk and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 5 ♂, Kaniv Distr., Lukovytsya, SN, 22.iv.1999; 1 ♂, Kaniv Distr., Trakhtemyriv, SN, 14.v.2000; *Crimea*: 1 ♂, Staryi Krym, SN, 4.vii.1979; 1 ♂, Kara-Dag, SN, 8.vii.1979; 3 ♂, Angar Pass, SN, 10.vii.1979; 4 ♂, 1 km N of Angar Pass, SN, 11.vii.1979; *Kharkiv Reg.*: 1 ♂, Sharivka, SN, 14.vi.1992; 1 ♀, Krasnokutsk, SN, 15.vi.1992; 2 ♀, Murafa, SN, 19.vi.1992, leg. A. Kotenko; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 18.viii.1974; 1 ♀, Kyiv, Darnytsya, SN, 27.v.1970, leg. V. Tolkanitz; 4 ♂, Kyiv, Feofania, SN, 16.vi.1979; 4 ♂, Kyiv, Kruglyk, SN, 15.v.1982; 3 ♀, Kyiv, Novosilky, SN, 16.v.1984; 3 ♀, idem, SN, 24.v.1984, leg. A. Kotenko; 1 ♀, idem, SN, 24.v.1984; 1 ♂, idem, SN, 26.vi.1984, leg. V. Tolkanitz; 1 ♂, idem, SN, 4.vii.1984, leg. A. Kotenko; 1 ♂, idem, SN, 14.vii.1984, leg. V. Tolkanitz; 3 ♂, ?Mamotynka, SN, 20.v.1979; 1 ♂, Kyiv, Irpin, SN, 30.v.1979; 1 ♀, idem, SN, 8.viii.1982, leg. A. Kotenko; 1 ♂, Kyiv, Feofania, SN, 12.v.1979, leg. Stebnovska; 1 ♀, 80 km N of Kyiv, SN, 15.x.1979; 1 ♀, Makiychukove, SN, 6.ix.1980; 1 ♂, Kyiv, Teremky, SN, 22.vi.1980; 1 ♂, idem, SN, 2–8.v.2006; 1 ♂, idem, SN, 1.vii.2010; 2 ♂, Myronivka Distr., Velykyi Bukryn, SN, 1.vii.1999; *Lugansk Reg.*: 6 ♂, Novo-Ilyenko bio-station, SN, 1–2.v.1978; 1 ♂, Provalskyi Steppe Reserve, SN, 21.vi.1979; *Poltava Reg.*: 1 ♂, Myrgorod, Ostriv, SN, 9.viii.1982, leg. A. Kotenko; *Rivne Reg.*: 1 ♀, Sarny Distr., near Somyno Lake, SN, 14.vi.2008, leg. G. Nuzhna; *Transcarpathian Reg.*: 1 ♀, Rakhiv Distr., Zubrivka, SN, 30.vi.1975, leg. V. Ermolenko; *Volyn Reg.*: 2 ♂, Bile Lake, SN, 16–18.viii.1998; 2 ♂, Lyubeshiv Distr., Lyubotyn, SN, 21.viii.1998, leg. A. Kotenko; *Zaporizhzhya Reg.*: 1 ♀, Tavriiske, SN, 15.viii.1993.

Distribution. Palaearctic; Ukraine: Cherkasy, Crimea, Ivano-Frankivsk, Kharkiv, Kyiv, Lugansk, Poltava, Rivne, Transcarpathian, Volyn, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, EEFS, PS. April–October.



FIGURE 17. *Pimpla femorella*, lateral view of female habitus.

***Pimpla illecebrator* (Villers, 1789)**

Records. Transcarpathian Region (Varga, 2017b).

Material examined. Literature data only.

Distribution. Oriental and Palaeartic Regs; Ukraine: Transcarpathian Reg.

Biology. CMF. June.

***Pimpla insignatoria* (Gravenhorst, 1807)**

Records. Crimea, Kharkiv (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♂, Kaniv Distr., SN, 3.6 km NE of Trakhtemyriv, Monastyrok, SN, 3.vii.1999; *Crimea*: 2 ♀, 3 ♂, Laspi, SN, 22.vii.1973; 3 ♂, idem, SN, 21.vii.1979; 2 ♀, Chatyr-Dag, SN, 3.vi.1976; 2 ♀, kordon Taryer, SN, 27.vi.1976, leg. A. Kotenko; 1 ♂, Svitla Polyana, SN, 4–5.vi.1978, leg. Pshebelska; 2 ♀, 1 ♂, 1 km N

of Angar Pass, SN, 11.vii.1979; 1 ♂, idem, SN, 14.vii.1979; 2 ♂, kordon Suat, SN, 15.vii.1979, leg. A. Kotenko; 1 ♀, kordon Asport, SN, 1.vi.1976; 1 ♀, idem, SN, 29.vi.1976; 1 ♀, 2 ♂, idem, SN, 2.vi.1978; 1 ♀, Savytski Sady, SN, 30.vi.1976, leg. A. Kotenko; 1 ♀, Schaslyve, SN, 10–11.vii.1990, leg. V. Tolkanitz; 4 ♀, Martyan Cape, YPT, 1–8.viii.2010, leg. V. Fursov; *Kharkiv Reg.*: 1 ♀, Goncharivka, SN, 5–6.vi.1975, leg. V. Tolkanitz; 2 ♀, Krasnokutsk, SN, 9.vi.1992; 1 ♀, idem, SN, 15.vi.1992; 1 ♀, idem, SN, 9.vii.1992; 1 ♀, Murafa, SN, 19.vi.1992; *Kyiv Reg.*: 1 ♂, ?Mamotyinka, SN, 20.v.1979; 1 ♀, Kyiv, Kruglyk, SN, 22.viii.1980; 1 ♀, 1 ♂, Kyiv, Irpin, SN, 8.ix.1979, leg. A. Kotenko; 2 ♂, Kyiv, Novosilky, SN, 4.v.1984, leg. V. Tolkanitz; 3 ♂, idem, SN, 14.v.1984; 1 ♀, idem, SN, 16.v.1984; 2 ♀, idem, SN, 16.v.1984; 1 ♀, 1 ♂, idem, SN, 24.v.1984; 1 ♂, idem, SN, 26.vi.1984; 1 ♀, 2 ♂, idem, SN, 4.vii.1984; 1 ♂, idem, SN, 14.viii.1984, leg. A. Kotenko; 1 ♂, idem, SN, 26.viii.1984, leg. V. Tolkanitz; 3 ♂, idem, SN, 12.v.1985, leg. S. Zrashevsky; 1 ♀, Fastiv Distr., Kozhanka, SN, 24.vii.1999; 1 ♀, Kyiv, Teremky, SN, 15.vii.2010; *Lugansk Reg.*: 1 ♀, Novo-Illyenko bio-station, SN, 1–2.v.1978; 1 ♀, idem, SN, 25.vi.1983; *Odesa Reg.*: 1 ♀, Lisne, SN, 7.vii.1978; 1 ♂, Plavni, SN, 11.v.1979; *Poltava Reg.*: 1 ♂, Myrgorod, Ostriv, SN, 29.viii.1984; *Rivne Reg.*: 1 ♀, Kamyanytsya, SN, 4.x.1980; *Transcarpathian Reg.*: 1 ♂, Rakhiv, SN, 2.viii.1994, leg. A. Kotenko; *Vinnitsya Reg.*: 1 ♂, Vinnitsya ? forestry, SN, 27.vii.1988, leg. V. Tolkanitz.

Distribution. Western Palaearctic; Ukraine: Cherkasy, Crimea, Ivano-Frankivsk, Kharkiv, Kyiv, Lugansk, Odesa, Poltava, Rivne, Transcarpathian, and Vinnitsya Regs.

Biology. CME, CEMF, CSF, EEFS, PS, PMF. April–October.

Pimpla melanacrias Perkins, 1941

Records. Kyiv (Kasparyan, 1973), Ivano-Frankivsk and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv NR, SN, 12.viii.1982; 2 ♂, Kaniv Distr., SN, 3.6 km NE of Trakhtemyriv, Monastyrok, SN, 3.vii.1999, leg. A. Kotenko; *Kharkiv Reg.*: 1 ♀, Goncharivka, SN, 5–6.vi.1975, leg. V. Tolkanitz; 2 ♂, Krasnokutsk, SN, 9.vi.1992; 1 ♀, idem, SN, 15.vi.1992; 1 ♀, idem, SN, 9.vii.1992; 1 ♀, Sharivka, SN, 14.vi.1992; *Kherson Reg.*: 1 ♀, Black Sea BR, SN, 18.vi.1980, leg. A. Kotenko; 1 ♂, Skadovsk, SN, 3.v.1983, leg. M. Nesterov; *Khmelnitskyi Reg.*: 1 ♂, Netishyn, SN, 29.vii.1999; *Kyiv Reg.*: 1 ♂, Khodosivka, SN, 14.viii.1980, leg. A. Kotenko; 1 ♂, Kyiv, Teremky, SN, 18.v.1982, leg. S. Kononova; 1 ♂, Kyiv, Kruglyk, SN, 22.viii.1980; 1 ♀, idem, SN, 21.ix.1980; 3 ♂, idem, SN, 4.ix.1980; 3 ♂, idem, SN, 5.ix.1981; 1 ♂, idem, SN, 15.v.1982, leg. A. Kotenko; 1 ♀, 2 ♂, idem, SN, 23.vii.1982, leg. V. Tolkanitz; 1 ♂, idem, SN, 1.v.1983, leg. A. Kotenko; 1 ♂, Kyiv, Novosilky, SN, 4.v.1984, leg. V. Tolkanitz; 1 ♀, idem, SN, 14.v.1984; 2 ♂, idem, SN, 16.v.1984; 2 ♂, idem, SN, 24.v.1984, leg. A. Kotenko; 2 ♂, idem, SN, 12.v.1985, leg. S. Zrashevsky; 1 ♂, Kyiv, Feofania, SN, 16.vi.1974; 1 ♀, Kyiv, Irpin, SN, 8.viii.1982; 1 ♀, Myronivka Distr., Velykiy Bukryn, SN, 1.vii.1999, leg. A. Kotenko; *Rivne Reg.*: 1 ♂, Chudel, SN, 17–18.vi.2008, leg. G. Nuzhna; *Ternopil Reg.*: 1 ♀, Medobory NR, SN, 10.viii.1994; 1 ♀, idem, SN, 12.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♂, Rakhiv, SN, 1.viii.1994, leg. A. Kotenko; *Volyn Reg.*: 1 ♂, Kovel Distr., left bank of river Turya, SN, 2.viii.1998, leg. A. Kotenko; 1 ♂, Svityaz Lake, SN, 27.vi.1977, leg. V. Odnosum.

Distribution. Palaearctic; Ukraine: Cherkasy, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Rivne, Ternopil, Transcarpathian, and Volyn Regs.

Biology. CME, CEMF, EEFS, PS, PMF. May–October.

Pimpla murinanae Fahringer, 1943

Records. Transcarpathian Region (Varga, 2017b).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Transcarpathian Reg.

Biology. CME. July.

Pimpla rufipes (Miller, 1759)

Records. Crimea, Dnipro, Kharkiv, Kherson, Kyiv, Lugansk, Odesa, Poltava (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.*: 1 ♀, Kaniv, SN, 4.viii.1970, leg. V. Tolkanitz; 2 ♂, Kaniv Distr., SN, 3.6 km NE of Trakhtemyriv, Monastyrok, SN, 3.vii.1999; 1 ♂, Lukovytsya, SN, 14.v.2000; 1 ♂, Trakhtemyriv, SN, 14.v.2000; *Crimea*: 1 ♀, Karabi-Yaila, SN, 3.vi.1966; 1 ♀, Perecop Schaft, SN, 29.v.1974; 1 ♀, kordon Asport, SN, 29.vi.1976, leg. A. Kotenko; 1 ♀, Mykhailivka, ex *Hypantria cunea* pupa, 7.iv.1977, leg. R. Shvedova; 1 ♀, 2 ♂, Arabat Spit,

SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 2 ♂, Staryi Krym, SN, 4.vii.1979; 2 ♂, idem, SN, 5.vii.1979, leg. V. Tolkanitz; 1 ♀, 2 ♂, Gvardiyske, ex *Hypantiria cunea* pupa, collected 29.vii.1988, reared 30.vii.1988; 7 ♀, 5 ♂, idem, collected x.1988, reared 16.ii.1989; 16 ♀, 3 ♂, idem, but reared 27.ii.1989; 6 ♀, 7 ♂, idem, but reared 7.iii.1989; 4 ♀, 3 ♂, idem, collected 28.vii.1988., reared v.1989, leg. R. Shvedova; 1 ♀, idem, 9.v.1989; 1 ♀, 1 ♂, idem, 18.v.1989, leg. E. Valentyuk; 1 ♀, idem, 8.ix.1989, leg. R. Shvedova; *Donetsk Reg.*: 1 ♂, Svyatogirsk, SN, 7.vi.1975; 1 ♂, Khomutovskyi Steppe Reserve, SN, 1.v.1974; 1 ♂, idem, SN, 29.v.1974; 2 ♀, idem, SN, 14.vi.1975, leg. V. Tolkanitz; 3 ♂, idem, SN, 14.vi.1975, leg. V. Ermolenko; 1 ♂, idem, SN, 11.vi.1976, leg. Z. Gershenson; 3 ♀, 3 ♂, idem, SN, 20.iv.1978; 4 ♀, 5 ♂, idem, SN, 28.iv.1978; 6 ♀, 10 ♂, idem, SN, 24.vi.1979, leg. A. Kotenko; 1 ♂, idem, SN, 24.vi.1979, leg. A. Lelei; 1 ♀, idem, SN, 25.vi.1979, leg. A. Kotenko; 1 ♀, idem, SN, 28.vii.1982, leg. S. Volovnik; 2 ♂, idem, SN, 30–31.v.1983; 1 ♂, idem, SN, 2–3.vi.1983, leg. V. Tolkanitz; *Kharkiv Reg.*: 1 ♂, Nova Kindrashivka, SN, 3.v.1978, leg. A. Kotenko; 3 ♂, Krasnokutsk, SN, 4.vii.1992; *Kherson Reg.*: 1 ♀, Oleshky Sande NNP, SN, 30.v.1974; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 22–23.vi.1970, leg. V. Tolkanitz; 1 ♂, idem, SN, 4–5.v.1974; 1 ♀, 1 ♂, idem, SN, 1.vi.1974; 2 ♂, idem, SN, 2.vi.1974; 1 ♂, idem, SN, 12–18.vii.1974; 2 ♀, 23 ♂, idem, SN, 21–22.iv.1978; 1 ♂, idem, SN, 13–14.viii.1978; 17 ♂, idem, SN, 22.iv.1978, leg. A. Kotenko; 1 ♀, idem, Ivanivka, SN, 3.vi.1974; 8 ♀, Oleksandrivka, SN, 5.vi.1974; 3 ♀, idem, SN, 6.vi.1974; 1 ♀, 2 ♂, Black Sea BR, Solenoozernyi area, SN, 21.vii.1974; 1 ♀, 1 ♂, idem, SN, 25–27.v.1976; 2 ♀, idem, SN, 30.v–1.vi.1976; 2 ♀, idem, SN, 3.vi.1976, leg. V. Tolkanitz; 1 ♂, idem, SN, 9.ix.1978; 1 ♂, idem, SN, 1.vi.1983; 3 ♂, idem, SN, 9.vi.1989; 2 ♂, Burkuty, SN, 24.vi.1978; 2 ♂, idem, SN, 26.vi.1978, leg. A. Kotenko; 1 ♀, Black Sea BR, Agarlytskyi Kut area, SN, 8.vi.1977, leg. V. Evtukh; 1 ♀, 1 ♂, 25–30 km of Genichesk, SN, 29.vi.1979; 1 ♂, Black Sea BR, SN, 4.v.1982, leg. A. Kotenko; 1 ♂, Kherson, ex *Hypantiria cunea* pupa, collected 29.ix–2.x.1985, reared 10.xii.1985; 3 ♂, Shaby Reserve, ex *Hypantiria cunea* pupa, collected 24–30.vii.1987, reared 2.viii.1987; 2 ♂, idem, but reared 3.viii.1987; 1 ♀, 1 ♂, idem, but reared 4.viii.1987; 14 ♀, 12 ♂, idem, but reared 5.viii.1987; 1 ♀, idem, but reared 9.viii.1987, leg. R. Shvedova; 2 ♂, Gola Prystan, ex *Hypantiria cunea*, 3.v.1989; 1 ♂, idem, 4.v.1989; 1 ♂, idem, 5.v.1989, leg. E. Valentyuk; *Khmelnytskyi Reg.*: 1 ♂, Chemerovets Distr., Zaluchchya, SN, 29.vii.1988; *Kyiv Reg.*: 2 ♀, Kyiv, Darnytsya, SN, 26.vii.1969, leg. V. Tolkanitz; 1 ♂, idem, SN, 6.v.1973, leg. V. Ermolenko; 1 ♂, Kyiv, ex *Aporia crataegi* pupa, 8.vi.1971, leg. M. Zerova; 1 ♀, idem, SN, 12.v.1977, leg. Bohdanovych; 1 ♀, idem, SN, 5.x.1977, leg. M. Zerova; 1 ♂, Kyiv, Kruglyk, SN, 5.ix.1981; 1 ♂, Kyiv, Novosilky, SN, 16.viii.1981, leg. A. Kotenko; 1 ♂, idem, SN, 3.vi.1982, leg. S. Sviridov; 1 ♀, 1 ♂, idem, SN, 4.vi.1984; 1 ♀, 1 ♂, idem, SN, 14.vi.1984; 3 ♂, idem, SN, 4.vii.1984, leg. A. Kotenko; 1 ♀, Kyiv, Feofania, SN, 18.v.1983, leg. V. Tolkanitz; 1 ♂, Bortnychi, SN, 7.vi.1987; 2 ♂, Yagotyń Distr., SN, 17.vi.1987, leg. G. Nikitenko; 1 ♀, 4 ♂, Fastiv Distr., Kozhanka, SN, 24.vii.1999, leg. A. Kotenko; 1 ♀, Pyrogiv, SN, 14.vi.2005; 1 ♀, Kyiv, Bilychi, SN, 4.ix.2005, leg. M. Nesterov; 1 ♂, Kyiv, Teremky, SN, 2–8.v.2006, leg. A. Kotenko; 1 ♀, Muzychi, SN, 14.ix.2006, leg. M. Nesterov; 1 ♀, Kyiv, Lysa Gora, SN, 14.ix.2010, leg. A. Kotenko; *Lugansk Reg.*: 1 ♀, Provalskyi Steppe Reserve, SN, 11.vii.1977, leg. V. Evtukh; 1 ♀, 2 ♂, idem, SN, 30.iv.1978; 3 ♂, idem, SN, 21.vi.1979, leg. A. Kotenko; 1 ♀, 3 ♂, idem, SN, 22.vi.1979, leg. V. Tolkanitz; 1 ♀, Provallya, SN, 9.vi.1978, leg. V. Odnosum; 1 ♂, idem, SN, 22.vi.1979; 1 ♂, Novo-Ilyenko bio-station, SN, 1–2.v.1978; 1 ♀, 38 ♂, Lugansk NR, Striltsivskyi Steppe, SN, 7.v.1978, leg. A. Kotenko; 1 ♀, idem, SN, 4.v.1983, leg. V. Tolkanitz; 2 ♂, Krynychne, SN, 8.v.1978, leg. A. Kotenko; 1 ♂, idem, 18–20.iv.2008, leg. S. Klymenko; 1 ♂, Lugansk NR, SN, 25.vi.1983, leg. A. Kotenko; *Mykolaiv Reg.*: 2 ♂, Berezneguvate, SN, 8.v.1974; 1 ♀, Ochakiv Distr., Parutyn, SN, 18.v.1978; 1 ♀, 20 km of Pervomaisk, SN, 22.v.1980, leg. M. Nesterov; *Odesa Reg.*: 1 ♀, Reni, SN, 14.viii.1972; 1 ♂, Bilyaivka, SN, 29.vi.1974; 1 ♂, idem, SN, 2.viii.1974, leg. V. Tolkanitz; 1 ♂, Morozova, SN, 14.v.1978; 1 ♂, Lisne, SN, 7.vii.1978, leg. A. Kotenko; 1 ♀, Odesa, under bark, SN, 20.xi.1986, leg. E. Valentyuk; 1 ♀, Danube BR, Ermakov Island, SN, 15.ix.1995, leg. A. Kotenko; 1 ♀, Kalynivka, SN, 22.ix.1995, leg. E. Maksymovych; 1 ♂, Savranske, SN, 3.viii.2004, leg. A. Kotenko; *Ternopil Reg.*: 1 ♂, Medobory NR, SN, 9.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, Uzhgorod, SN, 8.vi.1955; 1 ♀, idem, SN, 2.vii.1955; 1 ♂, idem, SN, 3.viii.1955; 1 ♀, idem, SN, 10.viii.1955, leg. N. Telenga; 1 ♀, Rakhiv, SN, 1.viii.1994, leg. A. Kotenko; *Vynnytsya Reg.*: 1 ♂, Vynnytsya ? forestry, SN, 12.vii.1988; 1 ♂, Oksanivka, SN, 22.vii.1988, leg. V. Tolkanitz; 1 ♀, Vynnytsya, ix.1989, leg. V. Gorobchyshyn; *Volyn Reg.*: 1 ♀, 2 ♂, Lutsk forestry, vi.1977, leg. V. Kozak; 1 ♂, Kovel Distr., Svitle Lake, SN, 5.viii.1998, leg. A. Kotenko; *Zaporizhzhya Reg.*: 1 ♀, Vasylivka, SN, 24.viii.1972; 1 ♂, idem, SN, 10.vii.1980; 1 ♂, Vasylivka Distr., Pidhirne, SN, 5.vii.1980; 1 ♂, Lysa Gora, SN, 7.v.1978; 1 ♂, idem, SN, 10.v.1978; 1 ♂, Staroberdyanskyi Reserve, SN, 7.vii.1981, leg. V. Tolkanitz; 4 ♂, Obytichna Spit, SN, 22.viii.1982; 1 ♂, idem, SN, 23–24.viii.1982, leg. S. Kononova.

Distribution. Palaearctic; Ukraine: Cherkasy, Crimea, Dnipro, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson,

Khmelnyskyi, Kyiv, Lugansk, Mykolaiv, Odesa, Poltava, Ternopil, Transcarpathian, Vinnytsya, Volyn, and Zaporizhzhya Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Pimpla spuria Gravenhorst, 1829

Records. Crimea, Kharkiv, Khmelnytskyi, Kyiv, Lugansk, Odesa, Poltava (Kasparyan, 1973), Ivano-Frankivsk, and Transcarpathian (Varga, 2017b) Regions.

Material examined. *Cherkasy Reg.:* 2 ♂, Buchak, SN, 2.vi.1973; 1 ♀, 1 ♂, Kaniv, SN, 3.viii.1970; 1 ♀, 1 ♂, idem, SN, 8–10.viii.1975, leg. V. Tolkanitz; 2 ♀, 1 ♂, idem, SN, 10.vi.1979, leg. Pshebelska; Tolkanitz; 1 ♀, Kaniv NR, SN, 23.v.1972; 1 ♂, idem, SN, 26.v.1972; 1 ♀, Kaniv NR, Maryina Gora, SN, 20.v.1972; 1 ♀, idem, SN, 27.v.1972, leg. V. Tolkanitz; *Chernigiv Reg.:* 1 ♀, Khaenky, SN, 1.vii.1992, leg. L. Romasenko; *Crimea:* 2 ♂, Partyzanske, SN, 10.vi.1970; 2 ♂, Shovkovychne, SN, 11.vi.1970; 1 ♀, 1 ♂, Simferopol, SN, 12.vi.1970; 1 ♀, Kazantyp, SN, 14.vi.1970, leg. V. Tolkanitz; 1 ♀, idem, SN, 1.vii.1979; 3 ♂, Laspi, SN, 22.vii.1973; 2 ♂, idem, SN, 21.vii.1979; 2 ♂, kordon Asport, SN, 1.vi.1976; 1 ♀, 7 ♂, idem, SN, 24.vi.1976, leg. A. Kotenko; 1 ♂, idem, SN, 24.vi.1976, leg. V. Tolkanitz; 2 ♀, 1 ♂, 21 km of Alushta, SN, 19.vi.1976; 1 ♀, 5 ♂, kordon Taryer, SN, 27.vi.1976, leg. A. Kotenko; 3 ♂, Izobilne, SN, 21.vi.1976, leg. V. Tolkanitz; 3 ♂, idem, SN, 26.vi.1976, leg. A. Kotenko; 3 ♂, Savytski Sady, SN, 28.vi.1976, leg. V. Tolkanitz; 6 ♂, idem, SN, 30.vi.1976; 1 ♂, idem, SN, 15.vi.1978, leg. A. Kotenko; 3 ♂, Svitla Polyana, SN, 29.vi.1976; 9 ♂, idem, SN, 3.vii.1976, leg. V. Tolkanitz; 1 ♂, idem, SN, 4–5.vi.1978, leg. Pshebelska; 1 ♀, idem, SN, 16.vi.1978, leg. S. Kononova; 2 ♂, idem, SN, 18.vi.1978, leg. A. Kotenko; 1 ♂, idem, SN, 8.ix.1983, leg. V. Tolkanitz; 1 ♀, 5 ♂, Staryi Krym, SN, 4.vii.1979, leg. A. Kotenko; 1 ♀, 7 ♂, idem, SN, 4.vii.1979; 13 ♂, idem, SN, 5.vii.1979, leg. V. Tolkanitz; 2 ♀, 4 ♂, Arabat Spit, SN, 29.vi.1979, leg. A. Kotenko, V. Tolkanitz; 2 ♂, Angar Pass, SN, 10.vii.1979; 2 ♀, 1 ♂, idem, SN, 11.vii.1979; 2 ♀, 9 ♂, 1 km N of Angar Pass, SN, 11.vii.1979; 12 ♀, 48 ♂, kordon Suat, SN, 15.vii.1979; 3 ♂, 7 km N of Alushta, SN, 17.vii.1979, leg. A. Kotenko; 1 ♀, 3 ♂, Kara-Dag, SN, 7.vi.1978, leg. Pshebelska; 1 ♀, 1 ♂, idem, SN, 9–10.vi.1978; 1 ♀, 2 ♂, idem, SN, 8.vii.1979; 1 ♀, 1 ♂, Krasnyi Rai, SN, 11.iv.1979; 1 ♂, Tankove, SN, 18.vii.1979; 1 ♀, 1 ♂, Tarkhankut, Olenivka, SN, 25.vii.1979, leg. A. Kotenko; 1 ♀, 2 ♂, Schaslyve, 10–12.vii.1990, leg. V. Tolkanitz; 1 ♀, Nyzhnya Kutuzivka, SN, 4.x.1990, leg. S. Kononova; 1 ♀, 3 ♂, Kerch, Adzhy-Mushkai, SN, 20.iv.1999, leg. E. Rutian; 1 ♀, Lavanda, SN, 3.vii.2004, leg. M. Nesterov; 1 ♀, Nikita, on light, 28–29.vi.2007, leg. V. Fursov; 1 ♀, 5 km E of Pcholyne, SN, 22.vi.2010, leg. Plusch; *Dnipro Reg.:* 1 ♂, Partyzanske, SN, 10.vi.1980, leg. A. Kotenko; *Donetsk Reg.:* 1 ♀, 3 ♂, Blagodatne, SN, 11.vi.1975; 1 ♂, Khomutovskyi Steppe Reserve, SN, 14.vi.1975, leg. V. Tolkanitz; 1 ♀, idem, SN, 20.v.1977, leg. Z. Gershenzon; 2 ♂, idem, SN, 20.iv.1978; 1 ♀, 4 ♂, idem, SN, 28.iv.1978; 3 ♀, 14 ♂, idem, SN, 24.vi.1979, leg. A. Kotenko; 2 ♀, 10 ♂, idem, SN, 30–31.v.1983; 3 ♂, idem, SN, 2–3.vi.1983, leg. V. Tolkanitz; 1 ♂, idem, SN, 16.vi.1983; 1 ♂, idem, SN, 28.vi.1983; 4 ♂, Kamyani Mohyly Reserve, Nazarivka, SN, 14.vi.1983; 1 ♂, Kryva Luka, SN, 21.vi.1983, leg. A. Kotenko; 1 ♂, Svyatogirsk, SN, 14.v.1998; 1 ♂, Klischiiivka, SN, 17.v.1998, leg. V. Perepechaenko; *Kharkiv Reg.:* 2 ♂, Vovchansk Distr., Yefremivka, SN, 23.vi.1984, leg. Plusch; 2 ♂, idem, SN, 27.vii.1984; 2 ♂, Kupyansk Distr., Senkove, SN, 22.vii.1984; 2 ♂, Krasnokutsk, SN, 9.vi.1992; 3 ♀, 3 ♂, idem, SN, 11.vi.1992; 1 ♂, idem, SN, 15.vi.1992; 1 ♀, 1 ♂, idem, SN, 4.vii.1992; 1 ♀, 3 ♂, idem, SN, 9.vii.1992; 1 ♀, 2 ♂, idem, SN, 10.vii.1992; 3 ♀, 6 ♂, idem, SN, 11.vii.1992; *Kherson Reg.:* 1 ♂, Black Sea BR, kordon Kadetskogo, SN, 25.vi.1970, leg. A. Kotenko; 2 ♂, Black Sea BR, Ivano-Rybalchanskyi area, SN, 22–23.vi.1970, leg. V. Tolkanitz; 1 ♀, 1 ♂, idem, SN, 1.vi.1974; 5 ♀, 3 ♂, idem, SN, 2.vi.1974; 4 ♂, idem, Ivanivka, SN, 3.vi.1974; 1 ♀, idem, SN, 12–18.vii.1974; 15 ♀, 11 ♂, idem, SN, 21–22.iv.1978; 1 ♂, idem, SN, 22.viii.1978; 3 ♀, 1 ♂, idem, SN, 8.ix.1978; 1 ♂, idem, SN, 14.vii.1981; 1 ♂, idem, SN, 5.v.1982; 1 ♀, 1 ♂, idem, SN, 6.v.1982, leg. A. Kotenko; 1 ♀, idem, SN, 26.v.1982; 1 ♂, idem, SN, 27.v.1982, leg. V. Tolkanitz; 2 ♀, 1 ♂, idem, SN, 11.vi.1982; 2 ♀, 1 ♂, idem, SN, 10.vi.1983; 1 ♂, idem, SN, 14.vi.1989; 2 ♀, idem, SN, 11.vi.1991; 2 ♂, idem, SN, 9.vi.1998, leg. A. Kotenko; 2 ♀, 3 ♂, Black Sea BR, Solenoozernyi area, SN, 25–27.v.1976, leg. V. Tolkanitz; 1 ♀, 6 ♂, idem, SN, 30.v–1.vi.1976, leg. V. Tolkanitz; 1 ♂, idem, SN, 10.vi.1976; 5 ♀, 3 ♂, idem, idem, SN, 27–28.v.1978; 1 ♀, 1 ♂, idem, SN, 9.ix.1978; 2 ♀, 1 ♂, idem, SN, 10–12.vii.1979; 1 ♀, 1 ♂, idem, SN, 1.vi.1983; 1 ♂, idem, SN, 9.vi.1989; 5 ♀, 13 ♂, Gola Prystan, SN, 31.v.1972; 1 ♀, idem, SN, 9.viii.1978; 1 ♀, 1 ♂, idem, SN, 17–18.v.1974; 1 ♂, idem, Gopri, SN, 9.vi.1990, leg. A. Kotenko; 1 ♀, Oleshky Sande NNP, SN, 30.v.1974; 2 ♀, Askania-Nova, SN, 27.v.1974; 2 ♂, idem, SN, 28.v.1974; 1 ♀, 2 ♂, Oleksandrivka, SN, 6.vi.1974, leg. Tolkanitz; 8 ♂, Burkuty, SN, 23.vi.1978; 1 ♀, 3 ♂, idem, SN, 24.vi.1978; 2 ♂, idem, SN, 25.vi.1978; 1 ♀, 8 ♂, idem, SN, 26.vi.1978; 1 ♂, idem, SN, 26.vii.1978; 1 ♀, Skadovsk Distr., Dzharylgach, SN, 28–29.vi.1978, leg. A. Kotenko; 1 ♂, idem, SN, 2.ix.1983, leg. V. Tolkanitz; 1

♂, Black Sea BR, Tendrivska Spit, SN, 10.viii.1978; 5 ♂, Genichesk Distr., Byryuchy, SN, 7.vi.1979; 16 ♂, 25–30 km of Genichesk, SN, 29.vi.1979; 1 ♀, Black Sea BR, SN, 18.vi.1980; 1 ♀, 1 ♂, idem, SN, 4.v.1982, leg. A. Kotenko; 1 ♀, Gola Prystan Distr., Sadove, SN, 26.iv.1983; 1 ♂, Skadovsk, SN, 3.v.1983; 1 ♀, Skadovsk Distr., Krasne, SN, 4.v.1983, leg. M. Nesterov; 2 ♂, Black Sea BR, Potnevskiy area, SN, 15.vi.1989, leg. A. Kotenko; *Khmelnitskiy Reg.*: 1 ♀, Oleksiivka, SN, 28.vi.1979; 1 ♀, Shydlivtsi, SN, 28.vii.1988, leg. V. Tolkanitz; 1 ♀, 5 km N of Strygany, SN, 11.vi.1999, leg. A. Kotenko; *Kyiv Reg.*: 1 ♀, 1 ♂, Kyiv, Sofiivka, SN, 28–29.vii.1970; 1 ♂, Kyiv, Darnytsya, SN, 6.v.1973, leg. V. Ermolenko; 1 ♀, Kyiv, SN, 7.viii.1977, leg. A. Kotenko; 1 ♂, idem, SN, 6.v.1959, leg. O. Radchenko; 1 ♀, idem, ex *Archips rosana* pupa, 14.vi.1967, leg. Yu. Kostyuk; 1 ♂, Kyiv, Kruglyk, SN, 3.vi.1979; 1 ♀, idem, SN, 4.ix.1980; 1 ♀, idem, SN, 21.ix.1980; 1 ♂, Kyiv, Irpin, SN, 30.v.1979; 1 ♀, 1 ♂, Kyiv, Feofania, SN, 16.vi.1979; 1 ♂, Kyiv, Teremky, SN, 21.vii.1981, leg. A. Kotenko; 1 ♂, idem, SN, 18.v.1982, leg. S. Kononova; 1 ♀, Motovylyvka, SN, 14.vi.1981; 1 ♂, Khodosivka, SN, 21.viii.1983, leg. A. Kotenko; 1 ♀, idem, SN, 20.vi.2004, leg. M. Nesterov; 3 ♂, Kyiv, Novosilky, SN, 16.v.1984; 1 ♀, idem, SN, 24.v.1984, leg. A. Kotenko; 1 ♂, idem, SN, 24.v.1984, leg. V. Tolkanitz; 1 ♂, idem, SN, 12.v.1985, leg. S. Zrashevsky; 1 ♂, Boguslav, SN, 7.vi.1984, leg. I. Plyushch; 1 ♂, Myronivka District, Velykiy Bukryn, SN, 1.vii.1999; 1 ♂, Fastiv Distr., Kozhanka, SN, 24.vii.1999, leg. A. Kotenko; 1 ♀, Bilychi, SN, 2.vi.2004, leg. M. Nesterov; 1 ♂, Kyiv, Vasylykivskiy Island, SN, 20.viii.2006; 1 ♂, Kyiv, Lysa Gora, SN, 14.ix.2010, leg. A. Kotenko; *Lugansk Reg.*: 1 ♀, 18 ♂, Stanytsya Luganska, SN, 10.vi.1972; 4 ♀, Stanytsya Luganska forestry, 11–12.vi.1972; 2 ♀, 7 ♂, river Derkul bank, SN, 10.vi.1972; 2 ♀, 5 ♂, idem, SN, 11.vii.1972; 1 ♀, 4 ♂, Pishchane forestry, SN, 14.vi.1972; 1 ♂, Anratsyt, SN, 8.vi.1975; 1 ♂, Provalskiy Steppe Reserve, SN, 9.vi.1975, leg. V. Tolkanitz; 7 ♀, 29 ♂, idem, SN, 21.vi.1979, leg. A. Kotenko; 11 ♂, idem, SN, 22.vi.1979, leg. V. Tolkanitz; 7 ♂, Provallya, SN, 22.vi.1979, leg. A. Kotenko; 2 ♀, 3 ♂, Novo-Ilylenko bio-station, SN, 14.vi.1972; 2 ♂, idem, SN, 14.vi.1972, leg. V. Tolkanitz; 3 ♂, idem, SN, 1–2.v.1978; 2 ♂, Lugansk NR, Striltsivskiy Steppe, SN, 27.vi.1983, leg. A. Kotenko; *Mykolaiv Reg.*: 1 ♀, 1 ♂, Berezneguvate, SN, 8.v.1974; 2 ♂, Bashtanka, SN, 10.v.1974; 1 ♀, Maryivka, SN, 12.v.1974; 1 ♀, 1 ♂, Ochakiv, SN, 15–17.viii.1978, leg. A. Kotenko; 1 ♀, Pervomaisk Distr., Kuripchyne, SN, 23.v.1980, leg. M. Nesterov; 1 ♀, 1 ♂, Myhiya, SN, 19.vii.1988, leg. V. Tolkanitz; 3 ♂, Tashyne, SN, 12–14.vi.2010, leg. G. Nuzhna; *Odesa Reg.*: 1 ♀, 1 ♂, Reni, SN, 14.viii.1972; 4 ♀, 1 ♂, Staromanzyskiy Reserve, SN, 14.vi.1974; 2 ♂, Bilyaivka, SN, 28.vi.1974; 1 ♂, idem, SN, 6.vii.1974, leg. V. Tolkanitz; 2 ♀, 9 ♂, Morozova, SN, 14.v.1978; 1 ♀, Tatarbunary, SN, 8.vi.1983; 1 ♀, Danube BR, Prymorske, SN, 2.ix.1995; 1 ♀, idem, SN, 5.ix.1995; 1 ♀, idem, SN, 12–14.ix.1995; 1 ♂, idem, SN, 16.ix.1995; 1 ♂, Balta, SN, 18.vii.1992; 1 ♀, 2 ♂, Danube BR, 4 km W of Shevchenkove, SN, 8.ix.1995; 1 ♀, idem, SN, 11.ix.1995; 1 ♀, 7 ♂, Danube BR, Ermakov Island, SN, 15.ix.1995; 6 ♂, Danube BR, 5 km E of Vylkove, 19–20.ix.1995; 1 ♂, Danube BR, Lebedivka, SN, 10.vii.1997; *Poltava Reg.*: 2 ♂, Myrgorod, Ostriv, SN, 29.vi.1984; *Rivne Reg.*: 2 ♂, 4 km E of Varash, SN, 25.vi.2000, leg. A. Kotenko; *Ternopil Reg.*: 1 ♀, 3 ♂, Zalyshchyky, SN, 26.vii.1988; 1 ♂, idem, SN, 27.vii.1988; 5 ♂, Medobory NR, SN, 9.viii.1994; 1 ♀, 1 ♂, idem, SN, 12.viii.1994, leg. V. Tolkanitz; *Transcarpathian Reg.*: 1 ♀, Pikui, SN, 11.vii.1954, leg. N. Telenga; 3 ♂, Rakhiv, SN, 1.viii.1994, leg. A. Kotenko; *Vinnitsya Reg.*: 10 ♀, 20 ♂, Putlivtsi, ex *Agonopteryx nervosa* pupa, 14–20.vii.1982, leg. Nazarov; 1 ♂, 8 km of Murafa, SN, 21.vii.1988; *Zaporizhzhya Reg.*: 1 ♂, Vasylivka Distr., Krynychne, SN, 12.vi.1973; 1 ♂, Vasylivka Distr., Lugove, SN, 16.vi.1973; 2 ♂, Vasylivka, SN, 23–24.v.1974; 1 ♀, 1 ♂, idem, SN, 13–14.vii.1974; 4 ♂, idem, SN, 8.vi.1976; 1 ♀, idem, SN, 2.v.1978; 1 ♂, idem, SN, 10.vii.1980; 2 ♀, 3 ♂, idem, SN, 3.vii.1981; 1 ♀, idem, SN, 10.vii.1981; 5 ♂, 2–3 km S of Vasylivka, SN, 9.vii.1980; 1 ♀, Vasylivka Distr., Lysa Gora, SN, 2.v.1978; 1 ♀, 8 ♂, idem, SN, 7.v.1978; 1 ♂, idem, SN, 11.v.1978; 2 ♂, Tambovka, SN, 8.v.1978; 2 ♂, idem, SN, 7–8.vii.1981; 1 ♂, Staroberdyanskiy Reserve, SN, 11.vi.1976; 2 ♂, idem, SN, 10.v.1978; 5 ♂, idem, SN, 7.vii.1981, leg. V. Tolkanitz; 1 ♂, Vasylivka Distr., Pidhirne, SN, 5.vii.1980; 1 ♂, Bogatyr, SN, 14.vi.1983, leg. A. Kotenko.

Distribution. Oriental and Palaearctic Regs; Ukraine: Cherkasy, Chernigiv, Crimea, Dnipro, Donetsk, Ivano-Frankivsk, Kharkiv, Kherson, Khmelnytskyi, Kyiv, Lugansk, Mykolaiv, Odesa, Poltava, Rivne, Ternopil, Transcarpathian, Vinnitsya, and Zaporizhzhya Regs.

Biology. CME, CEMF, CSF, EEFS, PS, PMF. April–October.

Pimpla turionellae (Linnaeus, 1758)

Records. Crimea, Kharkiv, Kherson, Kyiv (Kasparyan, 1973), and Ivano-Frankivsk (Varga, 2017b) Regions.

Material examined. *Crimea*: 2 ♀, Angar Pass, ex *Rhyacionia buoliana* pupa, SN, 12.vii.1964; 1 ♀, 2 ♂, idem, SN, 14.vii.1964; 1 ♂, idem, SN, 17.vii.1964; 5 ♀, idem, SN, 18.vii.1964; 2 ♀, idem, SN, 23.vii.1964; 2 ♂, idem, SN, 29.vii.1964, leg. Yu. Kostyuk; 1 ♀, kordon Asport, SN, 24.vi.1976; 1 ♀, idem, SN, 2.vi.1978; 1 ♀, Opuk, SN,

18–19.vi.1998, leg. A. Kotenko; 1 ♀, 1 ♂, Dubky, ex *Tortrix viridana*, vi.1984; 1 ♀, Nyzhnya Kutuzivka, ex *Tortrix viridana*, SN, 11.vi.1984, leg. N. Podmarkov; 1 ♀, Gvardiyske, ex *Hyantria cunea* pupa, collected x.1988, reared 27.ii.1989, leg. R. Shvedova; *Dnipro Reg.*: 2 ♀, Kamyanske, vi.1979, leg. I. Nashkan; *Kharkiv Reg.*: 1 ♀, Zavody, river Siverskyi Donets left bank, SN, 9.v.1980; *Kherson Reg.*: 1 ♀, Burkuty, SN, 26.vi.1978; 1 ♀, Black Sea BR, Ivano-Rybalchanskyi area, SN, 13–14.viii.1978, leg. A. Kotenko; 7 ♀, 1 ♂, idem, 1981, leg. L. Zelinska; 1 ♂, idem, ex *Tortrix viridana*, 29.v.1983, leg. L. Seryogina; 1 ♀, Genichesk, SN, 17.vii.1984; 6 ♀, 1 ♂, idem, ex *Hyantria cunea* pupa, 10.viii.1984; 1 ♀, idem, 2.viii.1984; 1 ♀, 1 ♂, idem, 3.viii.1984; 13 ♀, 1 ♂, Shaby Reserve, SN, 24–30.vii.1987; 2 ♀, 2 ♂, idem, ex *Hyantria cunea* pupa, 2.viii.1987; 13 ♀, 5 ♂, idem, 4.viii.1987; 1 ♂, idem, 5.viii.1987; 1 ♂, idem, 6.viii.1987; 1 ♀, idem, 7.viii.1987; 2 ♂, idem, 9.viii.1987; 2 ♂, idem, 10.viii.1987; 1 ♀, 2 ♂, idem, 14.viii.1987; 1 ♂, idem, 14.viii.1987; 1 ♂, Rybalche, ex *Hyantria cunea* pupa, 4.viii.1987, leg. R. Shvedova; *Kyiv Reg.*: 2 ♀, Kyiv, ex *Cymolomia hartigiana*, 16.vi.1967, leg. Yu. Kostyuk; 1 ♀, idem, SN, 30.vii.1984, leg. A. Tsybulsky; 1 ♀, idem, SN, 11.vii.1985; 2 ♀, 2 ♂, SN, 17.vii.1985, leg. G. Nikitenko; 1 ♂, idem, ex *Yponomeuta malinella*, 9.vii.1991; 2 ♂, idem, 20.vii.1991; 1 ♂, idem, 21.vii.1991; 1 ♀, idem, 28.vii.1991; 1 ♀, idem, 29.vii.1991, leg. E. Valentyuk; 1 ♀, Kyiv, Irpin, SN, 6.iv.1965, leg. V. Ermolenko; 1 ♀, Nyzhni Sady, SN, 22.v.1979, leg. I. Plyushch; 1 ♀, Kyiv, Teremky, SN, 31.v.1980; 1 ♀, idem, SN, 21.vii.1981, leg. A. Kotenko; 1 ♀, idem, SN, 19.vi.1982, leg. Pshebelska; 1 ♀, idem, SN, 29.vi.1982, leg. V. Slovokhotov; 1 ♀, Kyiv, Novosilky, SN, 4.vi.1982, leg. A. Kotenko; 1 ♀, idem, SN, 28–30.v.1984, leg. V. Tkachov; 1 ♂, Klavdievo-Tarasove, SN, 11.vii.1985, leg. A. Tsybulsky; 1 ♀, Lyubartsi, SN, 27.v.1986; 1 ♀, Bortnychi, SN, 9.vi.1986, leg. S. Sviridov; 1 ♀, idem, SN, 30.vi.1986, leg. T. Nikitenko; *Lugansk Reg.*: 1 ♀, Novo-Illyenko bio-station, SN, 1–2.v.1978, leg. A. Kotenko; *Odesa Reg.*: 1 ♀, Kalynivka, SN, 22.ix.1995, leg. E. Maksymovych; *Poltava Reg.*: 1 ♀, Poltava, SN, 30.iv.1979; 1 ♀, 8 km of Luchky, SN, 4.v.1979, leg. A. Kotenko; *Rivne Reg.*: 1 ♀, Perebrody, SN, 11.vi.2008, leg. G. Nuzhna; *Transcarpathian Reg.*: 1 ♂, Uzhgorod, SN, 3.vii.1955; 1 ♀, idem, SN, 5.vii.1955; 1 ♀, idem, SN, 6.vii.1955; 1 ♀, idem, SN, 7.vii.1955; 1 ♀, idem, SN, 9.vii.1955; 1 ♀, Vynogradiv Distr., Chorna Gora, SN, 1.vi.1955, leg. N. Telenga; *Volyn Reg.*: 1 ♂, Kivertsi forestry, ex *Tortix viridana*, 26.vi.1977; 1 ♀, 1 ♂, Kovel Distr., SN, viii.1978; 1 ♀, Lutsk forestry, vii.1977, leg. V. Kozak.

Distribution. Oceanic, Oriental and Holarctic Regs; Ukraine: Crimea, Dnipro, Ivano-Frankivsk, Kharkiv, Kherson, Kyiv, Lugansk, Odesa, Poltava, Rivne, Transcarpathian, and Volyn Regs.

Biology. CMF, CEMF, CSF, EEFS, PS, PMF. April–October.

Strongyloopsis Brauns, 1896

Strongyloopsis abdominalis Kasparyan, 1974

Records. Kharkiv Region (Kasparyan, 1981).

Material examined. *Kherson Reg.*: 5 ♂, Black Sea BR, Ivano-Rybalchanskyi area, SN, 21–22.iv.1978; 1 ♂, idem, SN, 6.v.1982, leg. A. Kotenko.

Distribution. Western Palaearctic; Ukraine: Kharkiv and Kherson Regs.

Biology. EEFS, PS. April–May.

Strongyloopsis anomala Brauns, 1896

Records. Ukraine (Kasparyan, 1981).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: not stated.

Biology. Not stated.

Strongyloopsis belua Kuzin, 1950

Records. Kharkiv Region (Kasparyan, 1974).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Kharkiv Reg.

Biology. EEFS or PS. Not stated.

Theroniini Cushman & Rohwer, 1920

Theronia Holmgren, 1859

Theronia atalantae (Poda, 1761)

Records. Ukraine (Kasparyan, 1981), Ivano-Frankivsk and Transcarpathian Regions (Varga, 2017b).

Material examined. *Cherkasy Reg.*: 1 ♂, Kaniv, SN, 2.viii.1970; 1 ♀, Kaniv NR, SN, 23.v.1972, leg. V. Tolkanitz; 1 ♂, Kaniv Distr., SN, 3.6 km NE of Trakhtemyriv, Monastyrok, SN, 3.vii.1999, leg. A. Kotenko; 2 ♂, *Crimea*: Gvardiyske, ex *Hyphantria cunea* pupa, collected 28.vii.1988, reared 6.viii.1988, leg. R. Shvedova; *Kyiv Reg.*: 1 ♀, Kyiv, SN, 11.x.1971; 1 ♀, Kyiv, Teremky, SN, 30.iv.1977, leg. A. Petrenko; 2 ♂, idem, ex *Aporia crataegi*, 10.vi.1972, leg. M. Zerova; 2 ♀, Kyiv, Irpin, SN, 30.iv.1977, leg. A. Kotenko; 1 ♂, Balyko-Shchuchynka, SN, 27.vii.1979, leg. V. Ermolenko; 1 ♀, Kyiv, Novosilky, SN, 23.vii.1984, leg. A. Kotenko; *Volyn Reg.*: 1 ♂, Lutsk forestry, vii.1977, leg. V. Kozak.

Distribution. Oriental and Holarctic Regs; Ukraine: Cherkasy, Crimea, Ivano-Frankivsk, Kyiv, Transcarpathian, and Volyn Regs.

Biology. CMF, CEMF, EEFS, PS, PMF. April–October.

Theronia laevigata (Tschek, 1869)

Records. Transcarpathian Region (Varga, 2017b).

Material examined. Literature data only.

Distribution. Palaearctic; Ukraine: Transcarpathian Reg.

Biology. CMF. May–August.

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