

## PSYCHODIDAE (DIPTERA) OF GREECE

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**Abstract.** New data on the occurrence of Psychodidae in the territory of Greece are reported. On the whole, 39 species of this family were found at 72 localities in the material examined, 26 of which are new to the fauna of Greece: *Jovamormia caliginosa* (EAT.), *Yomormia furva* (TONN.), *Promormia eatoni* (TONN.), *P. silesiensis* JEŽ., *Peripsychoda fusca* (MACQ.), *Panimerus denticulatus* KREK., *P. kreki* VAILL., *Parajungiella longicornis* (TONN.), *Jungiella* (*Psychogella*) *bohémica* JEŽ., *J. (Psychocha) ripicola* (Bell.), *Paramormia* (*Duckhousiella*) *ustulata* (WALK.), *Clogmia albipunctata* (WILL.), *Philosepodon austriacus* VAILL., *P. humeralis* (MEIG.), *Feuerborniella obscura* (TONN.), *Psychodocha cinerea* (BANKS), *P. gemina* (EAT.), *Psycha grisea* (TONN.), *Psychomora trinodulosa* (TONN.), *Psychoda uniformata* HAS., *Tinearia lativentris* (BERD.), *Logima albipennis* (ZETT.), *L. erminea* (EAT.), *L. satchelli* (QUATE), *Pericoma* (*Pachypericoma*) *fallax* EAT. and *Pneumia pilularia* (TONN.). Nine new combinations are proposed (from *Satchelliella* VAILL.): *Pneumia canescens* (MEIG.), *P. crispus* (FR.), *P. gracilis* (EAT.), *P. hellenica* (VAILL.), *P. malickyi* (VAILL.), *P. nubila* (MEIG.), *P. pilularia* (TONN.), *P. stammeri* (JUNG) and *P. trivialis* (EAT.). Updated distribution of all collected species is presented. The contemporary state of investigation of Psychodidae in Greece is illustrated by the adjoined preliminary faunal list with 79 species so far registered. The subtribe Brunettiina stat. n. of the tribe Mormiini END. is established as a separate one from the subtribe Mormiina.

■ taxonomy, faunistics, subtribe Brunettiina stat. n., new combinations, list of species, Greece.

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## Introduction

Only scattered data on the Greek species of Psychodidae exist in the older literature, and they mainly involve the subfamily Phlebotominae, which includes species of great medical importance. These were published by the prominent specialists of that time, e.g. Langeron (1923), Cardamatis (1931), Caminopetros (1934, 1935), Parrot (1935, 1936), Ristorcelli (1939), Hertig (1949), Hadjinicolaou (1958) and Theodor (1958). The Italian dipterist Sarà (1959) published on some species of the subfamily Psychodinae from Greece collected by Dr. Aubert. In the last 20 years we have witnessed an upswing in the study of Psychodidae in Greece, represented by numerous occasional papers, where a high number of new species were described and illustrated in great detail: Vaillant (1974, 1978, 1979, 1981), Lewis (1982), Léger, Pesson et Madulo-Leblond (1986), Wagner (1979, 1981, 1982, 1984, 1990, 1993), Wagner et Vaillant (1983), Ježek (1990 a, b) and Ježek et Goutner (1993 a, b). Scanning electron microscopy produced electron micrographs of the immature stages of sand flies from the Ionian Greek islands published by Killick-Kendrick et al. (1989).

This paper presents results of a joint programme in taxonomical and faunistic research of moth flies (Diptera: Psychodidae) in Greece organized by the National Museum in Prague (Department of Entomology) and the Aristotelian University of Thessaloniki (Department of Zoology). This paper is based on the material collected partly by the expedition „Hellas 1986“ of the Primary Organization of the Czechoslovak Union of Nature Protection (c/o National Museum in Prague) to Greece (Peloponnisos) and mainly during our research in Macedonia in 1989, excluding that published previously by Ježek (1990a,b). Symbols: Goutner leg. = G, Ježek leg. = J, Ježek and Goutner leg. = JG, Inv. No. of slide = INS, V = vegetation of natural localities studied. All material collected is kept in the Department of Entomology (Natural History), Prague. In this paper, only selected material (slides) is presented. The name *Pneumia* ENDERLEIN, 1935 is used here as a valid generic name in the sense of Duckhouse's (1987) arguments. The subtribe Brunettiina stat. n. is established as a separate one from the subtribe Mormiina. Both subtribes belong to the tribe Mormiini END. of the subfamily Psychodinae.

## A survey of the taxa examined

### Sycoracinae

*Sycorax* CURTIS, 1839

*Sycorax popovi* JEŽEK, 1990.

Taxonomy. Ježek (1990 a) described characteristic features of the male (including hypopygium) and illustrated all important characters. Female and immature stages are unknown.

Distribution. Bulgaria, Greece.

Material examined. Aghia Varvara near Veria, village gutter, dustbins, V - *Platanus* and *Urtica*, 5.5.1989, ♂, JG, INS 2741.

### Trichomyiinae

*Trichomyia* CURTIS, 1839

*Trichomyia urbica* CURTIS, 1839

Taxonomy. Wagner (1982) made a detailed description of the male, including figures. The female has not been described or illustrated so far, however, quoted e.g. by Mirouse (1959). Keilin (1914) and Keilin et Tate (1937) gave short descriptions of the larvae. Pupa unknown.

Distribution. Belgium, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Ireland, the Netherlands, Poland, Romania, Slovak Republic, Sweden.

Material examined. Aghia Varvara near Veria, village gutter, dustbins, V - *Platanus* and *Urtica*, 5.5.1989, ♂, JG, INS 2740. Rendina near Limni Volvi south of Vertiskos mountains, banks of a brook, V - *Platanus*, *Lappa*, *Mentha*, *Phragmites*, *Rubus* and *Urtica*, 1.5.1989, ♂, JG, INS 2754.

### Psychodinae

#### Mormiini

#### Mormiina

*Mormia* ENDERLEIN, 1935

*Mormia revisenda* (EATON, 1893)

Taxonomy. There are several old illustrations of this species, unfortunately of historical value only (questionable identity). Ježek et Goutner (1993a) redescribed and illustrated the male (lectotype- and paralectotype- designation; centenary of the original description). Female and immature stages are unknown.

Distribution. Austria, Belgium, France, Germany, Great Britain, Greece, Italy, Turkey, former Yugoslavia.

Material examined. Aghios Dionysios, a ruin of the monastery near Prionia (chalet), Olympus, polluted rill, V - *Abies*, *Corylus*, *Pinus* and *Sambucus*, 29.4.1989, ♂, J, INS 3752.

*Jovamormia* JEŽEK, 1983

*Jovamormia caliginosa* (EATON, 1893)

Taxonomy. The male was redescribed, illustrated and discussed by Ježek (1983a); a da-

aged male of the syntypic series was unsuitable for lectotype-designation; for the establishment of this species we used Tonnoir's (1940) and Vaillant's (1974) characters. There are three syntypic females in Eaton's collection, so far not described in detail. Immature stages are unknown.

Distribution. Czech Republic, Germany, Great Britain, the Netherlands. New to the fauna of Greece.

Material examined. Melisi near Giannitsa, cowshed, effluence (black mud), V - *Populus*, *Sambucus*, *Iris*, *Rubus*, *Typha* and *Urtica*, 9.5.1989, ♂, J, INS 3146.

#### *Yomormia* JEŽEK, 1984

##### *Yomormia furva* (TONNOIR, 1940)

Taxonomy. Ježek (1987 a) redescribed and illustrated a male of this species and revised the holotype. The female is known from the original paper. Immature stages are unknown.

Distribution. Belgium, France, Germany, Great Britain; Abkhazia. New to the fauna of Greece.

Material examined. Kalos Agros near Drama, banks of a brook, V - *Populus*, *Salix*, *Equisetum*, *Rubus* and *Typha*, 2.5.1989, ♂, JG, INS 3122.

#### *Promormia* JEŽEK, 1983

##### *Promormia eatoni* (TONNOIR, 1940)

Taxonomy. The male was redescribed and illustrated in detail by Vaillant (1974) and Ježek (1983 a). Female subgenital plate was illustrated by Nielsen (1961). Immature stages unknown.

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, Germany, Great Britain, Hungary, Italy, former Yugoslavia. New to the fauna of Greece.

Material examined. Kalambaki near Drama, river, dam, 2.5.1989, ♂, JG, INS 2748. Limni Volvi near Kolpos Orfanou (south of Vertiskos mountains), 25.4.1989, 7 ♂, J, INS 3811, 3815-3816, 3822-3824, 3826. Rendina (south of Vertiskos mountains), communication-trench between Limni Volvi and Kolpos Orfanou, 25.4.1989, ♂, J, INS 3684. Stavros (SE of Vertiskos mountains), canal of an irrigation, 25.4.1989, ♂, J, INS 2737. V - *Alnus*, *Platanus*, *Populus*, *Salix*, *Carex*, *Equisetum*, *Iris*, *Juncus*, *Mentha*, *Phragmites*, *Pteridium*, *Rubus*, *Typha* and *Urtica*.

#### *Promormia silesiensis* JEŽEK, 1983

Taxonomy. So far known only from the male holotype, described and illustrated in the original paper. Female and immature stages are unknown.

Distribution. Czech Republic, new to the fauna of Greece.

Material examined. Limni Volvi near Kolpos Orfanou (south of Vertiskos mountains), V - *Alnus*, *Platanus*, *Populus*, *Equisetum*, *Juncus* and *Mentha*, 25.4.1989, 3 ♂, J, INS 3771, 3808 and 3825.

#### Subtribe Brunettiina stat. n.

Duckhouse (1987, p. 267) synonymized Brunettiini VAILLANT, 1975 (p. 156) with Mormiini ENDERLEIN, 1936 (p. 98), the latter tribus having been recognized at first by Ježek (1984b, p. 156) and later by Duckhouse (1987). Subtribe Mormiina was defined by Ježek (1994); subtribe Brunettiina is proposed here for the rest of Mormiini (genera *Atrichobrunettia* SATCHELL, 1953, *Brunettia* ANNANDALE, 1910 and *Gerobrunettia* QUATE et QUATE, 1967) and characterized by following traits.

Differential diagnosis. The first segment of the maxillary palps is very short, surstyli bearing mostly proximal and distal clusters of elaborate retinaculi of quite different types, which are often conspicuously enlarged at the tips. Thus differing from the subtribe Mormiina where the first palpomere is conspicuously long and always one cluster of simple retinaculi are present (all similar in form, not separated into groups).

#### *Atrichobrunettia* SATCHELL, 1953

##### *Atrichobrunettia graeca* JEŽEK et GOUTNER, 1993

Taxonomy. Described and figured (including female) in details by Ježek et Goutner (1993a), compared with quite different shape of aedeagal complex of the lectotype of rare *A. angustipennis* (Tonn.) known only from Belgium; all new published records of *A. angustipennis*

must be verified. Immature stages are unknown.

Distribution. Greece.

Material examined. Melisi near Giannitsa, cowshed, effluence (black mud), V - *Populus*, *Sambucus*, *Iris*, *Rubus*, *Typha* and *Urtica*, 9.5.1989, ♂, J, INS 3781.

Paramormiini

Paramormiina

*Peripsychoda* ENDERLEIN, 1935

*Peripsychoda fusca* (MACQUART, 1826)

Taxonomy. Redescription and figures (male) were published recently by Ježek (1987b). Female genitalia were illustrated by Szabó (1983). Larva and pupa were described and illustrated by Satchell (1949). Vaillant (1960) and Giljarov (1964) published a key-diagnosis of larva, not distinguished from *P. auriculata* (CURT.).

Distribution. Belgium, Corsica, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Italy, the Netherlands, Poland, Romania and former Yugoslavia. New to the fauna of Greece.

Material examined. Aghia Varvara near Veria, 2.7.1989, 2 ♂, G, INS 3081 and 3082. Aghios Vassilios near Thessaloniki, Limni Koronia, littoral, 26.4.1989, ♂, J, INS 3766. Filippi near Kavala, canal of an irrigation, highway, 1.5.1989, ♂, JG, INS 3892. Filippi-Krinides near Kavala, the same, 2 ♂, JG, INS 3119 and 3120. Kalos Agros near Drama, brook, 2.5.1989, ♂, JG, INS 3123. Limeni near Areopoli (Peloponnisos), cave with a spring, 18.7.1986, ♂, J, INS 3812. Limni Volvi near Kolpos Orfanou (south of Vertiskos mountains), 25.4.1989, 3 ♂, J, INS 3819, 3773 and 3810. Mesorrahi near Serres, spring area, 2.5.1989, ♂, JG, INS 3191. Meteora near Kalambaka (Thessalia), swamps near a highway, rocky walls, rubbish, excrements, 26.7.1986, ♂, J, INS 3882. Motel Taygetos, Taygetos mountains, Peloponnisos, spring area, Sparti-Kalamata highway, 15.7.1986, 2 ♂, J, INS 3699 and 3743. Nea Tenedos near Poligiros (town), Eparchia Halkidikis, horse pond with Algae, swamps, 21.4.1989, ♂, J, INS 3878. Rendina (south of Vertiskos mountains), a communication-trench between Limni Volvi and Kolpos Orfanou, 25.4.1989, ♂, J, INS 3685. V - *Alnus*, *Corylus*, *Juglans*, *Platanus*, *Populus*, *Quercus*, *Salix*; *Asplenium*, *Carex*, *Equisetum*, *Geranium*, *Hypericum*, *Iris*, *Juncus*, *Mentha*, *Phragmites*, *Pteridium*, *Rubus*, *Typha* and *Urtica*.

*Panimerus* EATON, 1913

*Panimerus denticulatus* KREK, 1972

Taxonomy. A key diagnosis, description and illustrations were published by Krek (1972) and Vaillant (1972). Recently the male was redescribed by Ježek (1987c). Female and immature stages are unknown.

Distribution. Czech Republic, Great Britain, Ireland, former Yugoslavia. New to the fauna of Greece.

Material examined. Aghios Vassilios near Thessaloniki, Limni Koronia, littoral, 26.4.1989, ♂, J, INS 3765. Filippi near Kavala, canal of an irrigation, highway, 1.5.1989, ♂, JG, INS 3889. Kalamaki near Drama, river, dam, 2.5.1989, ♂, JG, INS 2750. Kalos Agros near Drama, brook, 2.5.1989, 2 ♂, JG, INS 3126 and 3127. 3 km north of Kalos Agros, canal of an irrigation, 2.5.1989, ♂, JG, INS 2745. Krini, Eparchia Halkidikis, a rill among hills, 20.4.1989, ♂, J, INS 3673. Limni Volvi near Kolpos Orfanou (south of Vertiskos mountains), 25.4.1989, 3 ♂, J, INS 3772, 3809 and 3818. Melisi near Giannitsa, river, cowshed, effluence (black mud), 8. - 9.5.1989, 3 ♂, J, INS 3148, 3790 and 3801. Nea Malgara near Pirgos, rice-fields, swamps, 5.5.1989, ♂, JG, INS 3669. Nea Nikomidia near Veria, canal of an irrigation, 6.5.1989, ♂, J, INS 3695. Nikisiani near Drama, *Populus*-wood, canal of an irrigation, 2.5.1989, ♂, JG, INS 3887. Peponia near Serres, river, swamps, 3.5.1989, ♂, JG, INS 3110. Platanos near Veria, polluted canal, 5.5.1989, ♂, JG, INS 3832. Rendina near Limni Volvi (south of Vertiskos mountains), brook, canal, swamps, 1.5.1989, 2 ♂, JG, INS 2752 and 3764. Souroti, Eparchia Thessalonikis, swamps, hills, roof of leaves of trees, 19.4.1989, ♂, J, INS 2756. Stavros (SE of Vertiskos mountains), canal of an irrigation, 25.4.1989, ♂, J, INS 2738. Strimonas river near Amfipoli, west of Pangeo mountains, 1.5.1989, ♂, JG, INS 3666. V - *Alnus*, *Cornus*, *Corylus*, *Juglans*, *Platanus*, *Populus*, *Quercus*, *Robinia*, *Salix*, *Sambucus*, *Arrhenatherum*, *Carex*, *Equisetum*, *Galium*, *Iris*, *Juncus*, *Lappa*, *Mentha*, *Phragmites*, *Poaceae*, *Pteridium*, *Rubus*, *Scirpus*, *Typha* and *Urtica*.



***Panimerus krekii* VAILLANT, 1972**

Taxonomy. Original description and illustrations of male and last instar larvae were published by Vaillant (1972). The male was redescribed recently by Ježek (1987c). Female quoted e.g. by Salamanna (1975), however, so far undescribed. Pupa unknown.

Distribution. Czech Republic, France, Italy, former Yugoslavia. New to the fauna of Greece.

Material examined. Kalos Agros near Drama, banks of a brook, V – *Populus*, *Salix*, *Equisetum*, *Rubus* and *Typha*, 2.5.1989, ♂, JG, INS 3125.

***Parajungiella* VAILLANT, 1972**

***Parajungiella longicornis* (TONNOIR, 1919)**

Taxonomy. Both sexes were illustrated by Jung (1956); recently redescribed (lectotype- and paralectotype designation) by Ježek (1984a). The larva was illustrated under the name „*Pericoma deminuens* Feuerborn, 1922“ by Feuerborn (1923) and redescribed by Vaillant (1972), who also described the pupa.

Distribution. Austria, Belgium, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, the Netherlands, Poland, Russia, Slovak Republic, Sweden and former Yugoslavia. New to the fauna of Greece.

Material examined. Souroti, Eparchia Thessalonikis, swamps among hills, V – *Salix*, *Arrhenatherum*, *Carex*, *Galium*, *Juncus* and *Urtica*, 19.4.1989, ♂, J, INS 2755.

***Parajungiella serbica* (KREK, 1985)**

Taxonomy. The male was briefly described and the aedeagal complex was illustrated by Krek (1985); redescribed and illustrated in detail by Ježek et Goutner (1993 b). Female and immature stages are unknown.

Distribution. Greece, former Yugoslavia.

Material examined. Filippi near Kavala, canal of an irrigation, V – *Juglans*, *Equisetum*, *Mentha* and *Urtica*, highway, 1.5.1989, ♂, JG, INS 3891.

***Jungiella* VAILLANT, 1972**

**Subgenus *Psychogella* JEŽEK, 1984**

***Jungiella (Psychogella) bohémica* JEŽEK, 1979**

Taxonomy. Detailed description (including figures) of the male was presented by Ježek (1979). Female and immature stages are unknown.

Distribution. Czech Republic, new to the fauna of Greece.

Material examined. Fotolivos near Drama, canal of an irrigation, V – *Populus*, *Salix*, *Carex*, *Mentha* and *Rubus*; 2.5.1989, ♂, JG, INS 3689.

**Subgenus *Psychocha* JEŽEK, 1983**

***Jungiella (Psychocha) ripicola* (BELLIER, 1967)**

Taxonomy. The male was described and illustrated by Bellier (1967), redescribed by Vaillant (1972) and Ježek (1983 b). Female and pupa unknown, larva was described by Salman et Vaillant (1982).

Distribution. Czech Republic, France, former Yugoslavia. New to the fauna of Greece.

Material examined. Aghia Varvara near Veria, village gutter, dustbins, 5.5.1989, ♂, JG, INS 2742. Aghios Panteleimonas near Poligros (town), Eparchia Halkidikis, village brook, 22.4.1989, ♂, J, INS 3654. Filippi-Krinides near Kavala, canal of an irrigation, 1.5.1989, ♂, JG, INS 3121. Fotolivos near Drama, canal of an irrigation, 2.5.1989, ♂, JG, INS 3688. Kalos Agros near Drama, brook, 2.5.1989, ♂, JG, INS 3128. Melisi near Giannitsa, river, 8.5.1989, 2 ♂, J, INS 3787 and 3802. Rendina near Limni Volvi (south of Vertiskos mountains), brook, 1.5.1989, ♂, JG, INS 2753. V – *Cornus*, *Platanus*, *Populus*, *Salix*, *Carex*, *Equisetum*, *Iris*, *Lappa*, *Mentha*, *Phragmites*, Poaceae, *Rubus*, *Typha* and *Urtica*.

***Paramormia* ENDERLEIN, 1935**

**Subgenus *Duckhousiella* VAILLANT, 1972**

***Paramormia (Duckhousiella) ustulata* (WALKER, 1856)**

Taxonomy. Feuerborn (1926) published detailed descriptions of adults, larva and pupa. Adults were redescribed recently by Ježek (1990 b).

Distribution. Belgium, Bulgaria, Corsica, Czech Republic, Denmark, France, Germany,

Great Britain, Hungary, Ireland, Italy, the Netherlands, Olanda I., Poland, Romania, Sardinia, Slovak Republic, Spain, Sweden, Switzerland, former Yugoslavia; Afghanistan, Algeria, Azores, Canary I., Iran, Israel, Madeira, Mongolia, Morocco, Tunisia, Turkey, U.S.A. New to the fauna of Greece.

Material examined. Aghia Paraskevi near Souroti, Eparchia Thessalonikis, narrow river, spring of mineral water with Algae, sand, 18-19.4.1989, 2 ♂, J, INS 2759 and 3140. Aghios Antonios, Eparchia Thessalonikis, rill, valley among hills, 19.4.1989, ♂, J, INS 3658. Aghios Panteleimonas near Poligiros (town), Eparchia Halkidikis, fields, white outflow from a borehole, *Hordeum* and Poaceae – sweeping at night, 21.4.1989, 2 ♂, J, INS 3693. Aghios Vassilios near Thessaloniki, Limni Koronia, littoral, 26.4.1989, ♂, J, INS 3768. Galipsos near Kavala, dust-heap, polluted rill, rubbish, 1.5.1989, ♂, JG, INS 3143. Kalos Agros near Drama, brook, 2.5.1989, ♂, JG, INS 3129. Limni Volvi near Kolpos Orfanou (south of Vertiskos mountains), 25.4.1989, ♂, J, INS 3769. Nea Redestos, Eparchia Thessalonikis, 18.4.1989, ♂, J, INS 3187. Nea Tenedos near Poligiros (town), Eparchia Halkidikis, horse-pond (watering place) with Algae, swamps, 21.4.1989, 3 ♂, 1 ♀, J, INS 3190, 3879 and 3881 (in copula). Simantra near Poligiros, Eparchia Halkidikis, Olea grove, horse-pond, swamps, 22.4.1989, ♂, J, INS 3690. Souroti, Eparchia Thessalonikis, hills, swamps, a roof of leaves of *Salix*, 19.4.1989, ♂, J, INS 2758. Thermi near Thessaloniki, brook, 18.4.1989, ♂, J, INS 3197. Vasiloudi, east of Thessaloniki, near Limni Koronia, brook, rubbish, 26.4.1989, J, INS 3115. V – *Alnus*, *Cupressus*, *Pinus*, *Platanus*, *Populus*, *Quercus*, *Salix*, *Tamarix*, *Arrhenatherum*, *Carex*, *Equisetum*, *Galium*, *Geranium*, *Juncus*, *Mentha*, *Phragmites*, Poaceae, *Polygonum*, *Rubus*, *Typha* and *Urtica*.

***Clogmia* ENDERLEIN, 1936**

***Clogmia albipunctata* (WILLISTON, 1893)**

Taxonomy. Male, female and immature stages were described e.g. by Pellerano (1967) and in great details by Vaillant (1971).

Distribution. Tropical and subtropical areas of the world. New to the fauna of Greece.

Material examined. 20 km far from Areopoli (highway to Kalamata), Peloponnisos, mouth of a brook, rubbish, 18.7.1986, 2 ♂, J, INS 3687 and 3704. Chios (town), Chios Island, bathroom, house walls, 11-13.9.1992, 2 ♂, G, INS 4045 and 4048. Limeni near Areopoli, Peloponnisos, mouth of a brook, rubbish, 18.7.1986, ♂, J, INS 2247. Thessaloniki, University wall, 31.5.1989, ♂, G, INS 3732. The same, A' Parodos Omirou street, 11.8.1989, ♂, G, INS 3198. V – *Ficus*, *Oleander* and *Phragmites*.

**Trichopsychodina**

***Philosepedon* EATON, 1904**

***Philosepedon austriacus* VAILLANT, 1974**

Taxonomy. See original paper; female and immature stages are unknown.

Distribution. Austria, Czech Republic, Germany, Russia, Slovak Republic. New to the fauna of Greece.

Material examined. Serres, polluted brook, *Salix* and *Sambucus* around, banks with a growth of *Urtica*, 3.5.1989, ♂, JG, INS 3776.

***Philosepedon humeralis* (MEIGEN, 1818)**

Taxonomy. The larva of the first instar and the last one were briefly described by Spärck (1920). Vaillant (1974) illustrated and described adults, larva and pupa. Detailed descriptions of both sexes were included recently in Ježek (1985).

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, the Netherlands, Poland, Slovak Republic, Spain, Sweden, Switzerland, former Yugoslavia; Algeria, Azores, Canary I., Cyprus, Mauretania, Seychelles I. New to the fauna of Greece.

Material examined. Kalos Agros near Drama, brook, 2.5.1989, ♂, JG, INS 3134. Melisi near Giannitsa, river, 8.5.1989, ♂, J, INS 3791. Nikisiani near Drama, Populus-wood, canal of an irrigation, 2.5.1989, ♂, JG, INS 3885. V – *Cornus*, *Populus*, *Salix*, *Equisetum*, *Iris*, *Mentha*, *Phragmites*, *Rubus*, *Typha* and *Urtica*.

*Feuerborniella* VAILLANT, 1971

*Feuerborniella obscura* (TONNOIR, 1919)

Taxonomy. Recently, both sexes were redescribed (lectotype- and paralectotype- designation) and figured by Ježek (1985). The larva and pupa were described and illustrated by Jung (1956), and later by Vaillant (1974).

Distribution. Belgium, Canary Islands, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, Romania and former Yugoslavia. New to the fauna of Greece.

Material examined. Kalos Agros near Drama, brook, 2.5.1989, ♂, JG, INS 3133. Limni Volvi near Kolpos Orfanou (south of Vertiskos mountains), 25.4.1989, 2 ♂, J, INS 3770 and 3807. V – *Alnus*, *Platanus*, *Populus*, *Salix*, *Equisetum*, *Juncus*, *Mentha*, *Rubus* and *Typha*.

Psychodini

*Psychodocha* JEŽEK, 1984

*Psychodocha cinerea* (BANKS, 1894)

Taxonomy. Redescribed and illustrated by Duckhouse (1966) and Pellerano (1967), and recently both sexes by Ježek (1990c). Larva and pupa were described by Muttkowski (1915) and redescribed by Malloch (1918). Larva was diagnosed in a key by Jung (1956) and precisely described by Vaillant (1982).

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, the Netherlands, Poland, Romania, Russia, Sardinia, Slovak Republic, Sweden, Switzerland, former Yugoslavia; Abkhazia, Afghanistan, Africa mer., Algeria, Argentina, Australia, Azores, Brazil, Canada, Canary Islands, Chile, Cyprus, Iran, Israel, Juan Fernández, Madeira, New Zealand, Puerto Rico Islands, Tunisia, Turkey, U.S.A. New to the fauna of Greece.

Material examined. Aghios Grigorios near Veria, canal of an irrigation, 6.5.1989, ♂, J, INS 3189. Chios (town), Chios Island, in bathroom, 12–13.9.1992, ♀, G, INS 4047. Kariotissa near Giannitsa, *Populus* forest, parched canals, 8.5.1989, ♀, J, INS 3142. Kisamos, Crete, WC, 5.6.1980, ♀ Bílý leg., INS 3742. Platanos near Veria, polluted canal, 5.5.1989, ♀, JG, INS 3831. Serres, polluted brook, 3.5.1989, ♀, JG, INS 3775. Thermi–Panorama near Thessaloniki SE, hills, overhangs, rubbish, 18.4.1989, ♂, J, INS 3668. Thessaloniki, Omirou street, dirty brook, 30.4.1989, ♂, J, INS 3702. The same A' Parodos Omirou street, WC, 29.5.1989, ♀, G, INS 3733. V – *Cornus*, *Ficus*, *Populus*, *Quercus*, *Salix*, *Sambucus*, *Ulmus*, *Carex*, *Equisetum*, *Hedera*, *Phragmites*, Poaceae, *Rubus*, *Urtica*.

*Psychodocha gemina* (EATON, 1904)

Taxonomy. Adults recently redescribed by Ježek (1990c). Larva was described by Satchell (1947) and diagnosed in a key by Jung (1956). Respiratory horns of pupa were illustrated by Satchell (1948).

Distribution. Austria, Belgium, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, the Netherlands, Romania, Slovak Republic, Spain, Switzerland, former Yugoslavia; Abkhazia. New to the fauna of Greece.

Material examined. Motel Taygetos, Taygetos mountains, Peloponnisos, Sparti – Kalamata highway, a stream, V – *Juglans*, *Platanus*, *Hedera* and Pteridopsida, 15.7.1986, ♀, J, INS 3794.

*Psycha* JEŽEK, 1984

*Psycha griseescens* (TONNOIR, 1922)

Taxonomy. The male was redescribed by Vaillant (1988), both sexes were redescribed and illustrated recently (including lectotype designation) by Ježek (1990 c). Satchell (1947) described larva, later diagnosed in a key by Jung (1956). Respiratory horns of pupa were illustrated by Satchell (1948).

Distribution. Austria, Belgium, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, the Netherlands, Norway, Slovak Republic, Sweden, former Yugoslavia; Algeria, Tunisia. New to the fauna of Greece.

Material examined. Motel Taygetos, Taygetos mountains, Peloponnisos, Sparti–Kalamata highway, a stream, V – *Platanus*, *Hedera*, Pteridopsida and *Urtica*, 16.7.1986, ♀, J, INS 3834.

*Psychomora* JEŽEK, 1984

*Psychomora trinodulosa* (TONNOIR, 1922)

Taxonomy. Adults were redescribed by Vaillant (1988) and Ježek (1990 c). Satchell (1947, 1948) published a good description of the mature larva and pupa.

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Norway, Romania, Russia, Sardinia, Slovak Republic, Sweden, Switzerland, former Yugoslavia; Algeria, U.S.A. New to the fauna of Greece.

Material examined. Melisi near Giannitsa, banks of a river, V – *Cornus*, *Populus*, *Salix*, *Iris*, *Mentha*, *Phragmites*, *Rubus* and *Typha*, 8.5.1989, ♀, J, INS 3804.

*Psychoda* LATREILLE, 1796

*Psychoda uniformata* HASEMAN, 1907

Taxonomy. The female was redescribed by Quate (1955), under the name *P. moravica* by Vaillant (1966), and recently by Ježek (1990 c). The last author described and illustrated the male for the first time. Larvae were registered by Zuska et Laštovka (1969); however, larva and pupa have not been described so far.

Distribution. Austria, Czech Republic, Italy; Iran, Mongolia; U.S.A. New to the fauna of Greece.

Material examined. Aghios Panteleimonas near Poligiros (town), Eparchia Halkidikis, fields with a growth of *Hordeum*, white outflow from a borehole, 21.4.1989, ♀, J, INS 3660. Galipsos near Kavala, dust-heap, polluted rill, rubbish, 1.5.1989, ♀, JG, INS 3145. Loutras near Veria, river, 5.5.1989, ♀, JG, INS 3731. Melisi near Giannitsa, river, 8.5.1989, ♀, J, INS 3805. The same, cowshed, effluence (black mud), 9.5.1989, ♀, J, INS 3151. Souroti, Eparchia Thessalonikis, swamps, hills, a roof of leaves of trees, 19.4.1989, ♀, J, INS 2757. V – *Cornus*, *Populus*, *Salix*, *Sambucus*, *Arrhenatherum*, *Carex*, *Galium*, *Iris*, *Juncus*, *Mentha*, *Phragmites*, *Rubus*, *Typha* and *Urtica*.

*Tinearia* SCHELLENBERG, 1803

*Tinearia alternata* (SAY, 1824)

Taxonomy. Adults, larva and pupa were redescribed in detail e.g. by Pellerano (1967); recently, male and female were described by Ježek (1977).

Distribution. Cosmopolitan species, from Greece published by Sarà (1959).

Material examined. 20 km far from Areopoli (highway to Kalamata), Peloponnisos, mouth of a brook, rubbish, 18.7.1986, 2 ♀, J, INS 3686 and 3703. Alexandroupoli, Halikio, sewage area, 8.6.1989, ♀, G, INS 3682. Chalastra near Thessaloniki, Axios river, rice-fields, 5.5.1989, ♀, JG, INS 3672. Chios (town), Chios Island, house walls, 11.9.1992, ♀, G, INS 4044. The same, in bathroom, 12.–13.9.1992, ♀, G, INS 4046. Galipsos near Kavala, dust-heap, polluted rill, rubbish, 1.5.1989, ♂, JG, INS 3144. Kalos Agros near Drama, brook, 2.5.1989, ♀, JG, INS 3130. Kisamos, Crete, WC, 5.6.1980, ♀, Bílý leg., INS 3741. Litohoro near Olympus, 400 m, 40 06' N, 22 30' E, 2.8.1978, ♂ and ♀ together, Aspöck, Rausch and Ressler leg. – Expedition to Bulgaria, Greece and Turkey, INS 3739. Melisi near Giannitsa, river, 8.5.1989, 2 ♀, J, INS 3789 and 3800. The same, cowshed, effluence (black mud), 9.5.1989, 2 ♀, J, INS 3147 and 3784. Meteora near Kalambaka (Thessalia), swamps near highway, rocky walls, rubbish, excrements, 26.7.1986, ♀, J, INS 3893. Platanos near Veria, polluted canal, 5.5.1989, ♀, JG, INS 3829. Serres, polluted brook, 3.5.1989, ♀, JG, INS 3774. Stavros – Nea Nikomidia near Veria, well, swamps, rubbish, 6.5.1989, ♀, J, INS 3153. Stefanina, Vertiskos mountains, horse-pond, brook, 3.5.1989, ♀, JG, INS 3112. Sterna, North-West of Argos, Peloponnisos, light trap, 12.7.1986, ♀, J, INS 3737. Thermi near Thessaloniki SE, brook, 18.4.1989, ♀, J, INS 3196. Thessaloniki, Omirou street, dirty brook, 30.4.1989, ♀, J, INS 3700. The same, A' Parodos Omirou street, WC, 29.5.1989, ♂, G, INS 3734. Zagora, Pelion Mts., house, 13.8.1990, ♀, G, INS 3691. V – *Cornus*, *Cupressus*, *Ficus*, *Oleander*, *Pinus*, *Platanus*, *Populus*, *Salix*, *Sambucus*, *Tamarix*, *Equisetum*, *Hedera*, *Iris*, *Juncus*, *Mentha*, *Phragmites*, *Poaceae*, *Pteridium*, *Rubus*, *Typha* and *Urtica*.

*Tinearia lativentris* (BERDÉN, 1952)

Taxonomy. The female was described and illustrated by Berdén (1952) and some details were illustrated by Salamanna (1966). The male was described and illustrated by Quate

(1955). Both sexes were redescribed and illustrated recently by Ježek (1977). Larva published by Vaillant (1973), pupa so far unknown.

Distribution. Austria, Czech Republic, Denmark, France, Germany, Great Britain, Italy, Russia, Sardinia, Slovak Republic, Sweden; Afghanistan, Canada, Mexico, Syria, Tunisia, U.S.A. New to the fauna of Greece.

Material examined. Aghios Panteleimonas near Poligiros (town), Eparchia Halkidikis, fields, white outflow from a borehole, *Hordeum* and *Poaceae* – sweeping at night, 21.4.1989, ♀, J, INS 3692. Chalastra near Thessaloniki, Axios river, rice-fields, 5.5.1989, ♀, JG, INS 3671. Kariotisa near Giannitsa, swamps, rubbish, 8.5.1989, ♀, J, INS 3738. The same, *Populus* forest, parched canals, 8.5.1989, ♀, J, INS 3141. Kria Vrissi near Giannitsa, canal, stagnant black water, rubbish, 9.5.1989, ♀, J, INS 3186. Loutras near Veria, river, 5.5.1989, ♀, JG, INS 3729. Melisi near Giannitsa, river, 8.5.1989, 2 ♀, J, INS 3788 and 3799. The same, cowshed, effluence (black mud), 9.5.1989, 2 ♀, J, INS 3149 and 3785. Nea Tenedos near Poligiros (town), Eparchia Halkidikis, horse-pond (watering place), with *Algae*, swamps, 21.4.1989, ♀, J, INS 3880. Platanos near Veria, polluted canal, 5.5.1989, ♀, JG, INS 3830. Sterna, North-West of Argos, Peloponnisos, light trap, 12.7.1986, ♀, J, INS 3736. V – *Cornus*, *Populus*, *Quercus*, *Salix*, *Sambucus*, *Tamarix*, *Geranium*, *Iris*, *Juncus*, *Mentha*, *Phragmites*, *Rubus*, *Typha* and *Urtica*.

### *Logima* EATON, 1904

#### *Logima albipennis* (ZETTERSTEDT, 1850)

Taxonomy. Adults were described under the name *Psychoda severini* by Tonnoir (1922); new synonymy (including a study of the type material: lectotype- and paralectotype designation), redescrptions of both sexes and detailed illustrations were published recently by Ježek (1983 c). Mouthparts of the larva were described by Goetghebuer (1925) and Sarà (1951), and whole larva under the name *P. severini* by Satchell (1947). Respiratory horns of pupa were illustrated by Satchell (1948).

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Luxemburg, Norway, Poland, Portugal, Romania, Russia, Sardinia, Slovak Republic, Sweden, former Yugoslavia; Afghanistan, Africa, Australia, Azores, Campbell Islands, Canary Islands, India, Japan, Juan Fernandez Islands, Kerguelen Islands, Macquarie Islands, Madeira, New Zealand, North Korea, South America, South Georgia, Syria, U.S.A. New to the fauna of Greece.

Material examined. Aghia Varvara near Veria, village gutter, dustbins, 5. 5. 1989, ♀, JG, INS 2744. Aghios Antonios, Eparchia Thessalonikis, rill, valley among hills, 19.4.1989, ♀, J, INS 3657. Aghios Dionysios, a ruin of the monastery near Prionia (chalet), Olympus, polluted rill, 29.4.1989, ♀, J, INS 3751. The same, cave, spring area, 29.4.1989, ♂, J, INS 3756. The same, 3 km East of the monastery, stream, rocky area, 29.4.1989, ♀, J, INS 3748. The same, 4 km East of the monastery, near Litochoro, spring, river, rocky walls, 29.4.1989, J, INS 2739. Akrolimni near Veria, canal of an irrigation, 7.5.1989, ♀, J, INS 3735. Angelohori near Veria, canal of an irrigation, 6.5.1989, ♀, J, INS 3694. Galatodes near Giannitsa, swamps near village, 8.5.1989, ♀, J, INS 3683. Kalambaki near Drama, river, dam, 2.5.1989, ♀, JG, INS 2751. Kalos Agros near Drama, brook, 2.5.1989, ♀, JG, INS 3131. Kria Vrissi near Giannitsa, canal, stagnant black water, rubbish, 9.5.1989, ♀, J, INS 3185. Loutras near Veria, river, 5.5.1989, ♀, JG, INS 3730. Melisi near Giannitsa, river, 8.5.1989, ♀, J, INS 3793. The same, cowshed, effluence (black mud), 9.5.1989, 2 ♀, J, INS 3150 and 3783. Mesoropi near Kavala, brook, 1.5.1989, ♀, JG, INS 3208. Mesorahi near Serres, spring area, 2.5.1989, ♀, JG, INS 3195. Nea Malgara near Pigos, rice fields, swamps, 5.5.1989, ♀, JG, INS 3670. Nea Nikomidia- Angelohori near Veria, canal of an irrigation, 6.5.1989, ♀, J, INS 3746. Nikisiani near Drama, *Populus* wood, canal of an irrigation, 2.5.1989, ♀, JG, INS 3888. 3 km north-west of Paleocastro near Poligiros (town), central Halkidiki, river, forest, 23.4.1989, ♀, J, INS 3759. 2 km north of Poligiros (town), central Halkidiki, spring area, 23.4.1989, ♀, J, INS 3138. Prionia (chalet), Olympus, stream, wetness, rubbish, 28.4.1989, ♀, JG, INS 3681. Serres, polluted brook, 3.5.1989, ♀, JG, INS 3777. Sitagri- Fotolivos near Drama, canal of an irrigation, 2.5.1989, ♀, JG, INS 3675. Stavros- Nea Nikomidia near Veria, well, swamps, rubbish, 6.5.1989, ♀, J, INS 3154. Stefanina, Vertiskos mountains, horse-pond, brook, 3.5.1989, ♀, JG, INS 3113. Thermi- Panorama near Thessaloniki (south-east), hills, overhangs, rubbish, 18.4.1989, ♀, J, INS 3667. Thessaloniki, Omirou street, dirty brook,

30.4.1989, ♀, J, INS 3701. V – *Abies*, *Acer*, *Alnus*, *Carpinus*, *Cornus*, *Corylus*, *Fagus*, *Ficus*, *Juglans*, *Juniperus*, *Myrtha*, *Pinus*, *Platanus*, *Populus*, *Quercus*, *Robinia*, *Salix*, *Sambucus*, *Carex*, *Convalaria*, *Equisetum*, *Geranium*, *Hedera*, *Iris*, *Juncus*, *Mentha*, *Muscari*, *Musci*, *Phragmites*, *Poaceae*, *Primula*, *Pteridopsida*, *Rubus*, *Scirpus*, *Typha* and *Urtica*.

***Logima erminea* (EATON, 1893)**

Taxonomy. Both sexes were redescribed e.g. by Tonnoir (1922). Ježek (1983 c) published recently lectotype- and paralectotype designation, and redescribed and illustrated male and female in details. Immature stages are unknown.

Distribution. Austria, Belgium, Czech Republic, Denmark, France, Germany, Great Britain, Ireland, Italy, Luxemburg, the Netherlands, Romania, Slovak Republic, Switzerland, former Yugoslavia; Algeria, Formosa, Japan. New to the fauna of Greece.

Material examined. Melisi near Giannitsa, river, V – *Cornus*, *Populus*, *Salix*, *Iris*, *Mentha*, *Phragmites*, *Rubus* and *Typha*, 8.5.1989, ♀, J, INS 3786.

***Logima satchelli* (QUATE, 1955)**

Taxonomy. Both sexes, mature larva and pupa were described and illustrated in Quate's original paper. Ježek (1990 c) redescribed and illustrated in detail adults of this species.

Distribution. Austria, Czech Republic, Ireland, Italy, Russia, Slovak Republic, former Yugoslavia; Canada, U.S.A. New to the fauna of Greece.

Material examined. Motel Taygetos, Taygetos mountains, Peloponnisos, Sparti-Kalamata highway, a stream, saddle, 16.7.1986, ♂, J, INS 3833. 3 km north-west of Paleocastro near Poligiros (town), central Halkidiki, river, forest, 23.4.1989, ♂, J, INS 3758. V – *Carpinus*, *Platanus*, *Carex*, *Hedera*, *Pteridopsida* and *Urtica*.

**Pericomini**

***Clytocerus* EATON, 1904**

Subgenus ***Boreoclytocerus* DUCKHOUSE, 1978**

***Clytocerus (Boreoclytocerus) ocellaris* (MEIGEN, 1804)**

Taxonomy. Both sexes were redescribed and illustrated by Jung (1956) and Vaillant (1983). There are short comments, including figures, in a morphology of larvae by Feuerborn (1913) and Jung (1956), of historical value only however. Immature stages of this species are indistinguishable from related species.

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, the Netherlands, Poland, Romania, Sardinia, Sicilia, Slovak Republic, Spain, Sweden, Switzerland, former Yugoslavia.

Material examined. Aghios Grigorios near Veria, canal of an irrigation, 6.5.1989, ♂, J, INS 3188. Aghios Vassilios near Thessaloniki, Limni Koronia, littoral, 26.4.1989, ♂, J, INS 3767. Limni Volvi near Kolpos Orfanou, South of Vertiskos mountains, 25.4.1989, ♂, J, INS 3820. Melisi near Giannitsa, river, 8.5.1989, 2 ♂, J, INS 3792 and 3803. The same, cowshed, effluence (black mud), 9.5.1989, 2 ♂, J, INS 3152 and 3782. Stavros- Nea Nikomidia near Veria, well, swamps, rubbish, 6.5.1989, ♂, J, INS 3155. Vasiloudi, East of Thessaloniki, brook, rubbish, 26.4.1989, 2 ♂, J, INS 3116 and 3117. V – *Alnus*, *Cornus*, *Platanus*, *Populus*, *Salix*, *Sambucus*, *Ulmus*, *Carex*, *Equisetum*, *Iris*, *Juncus*, *Mentha*, *Phragmites*, *Rubus*, *Typha* and *Urtica*.

***Pneumia* ENDERLEIN, 1935**

***Pneumia nubila* (MEIGEN, 1818) comb. n.**

Taxonomy. The male was redescribed and illustrated in great detail by Duckhouse (1962) under the name *Pericoma nubila* and Vaillant (1979, 1981) as *Satchelliella nubila*. Distinguishing characters of female, larva and pupa from those of closely related *Pneumia trivialis* (EATON, 1893) comb. n. unknown; however, some comments were published by Jung (1956) and Vaillant (1981).

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Luxemburg, the Netherlands, Poland, Romania, Russia, Sardinia, Sicilia, Slovak Republic, Spain, Sweden, Switzerland, former Yugoslavia; Canary Islands, Transcaucasus (Georgia).

Material examined. Aghia Varvara near Veria, village gutter, dustbins, 5.5.1989, ♂, JG,



INS 2743. The same, 2.7.1989, ♂, G, INS 3080. Filippi near Kavala, canal of an irrigation, highway, 1.5.1989, ♂, JG, INS 3890. Filippi- Krinides near Kavala, the same, INS 3118. Kalambaki near Drama, river, dam, 2.5.1989, ♂, JG, INS 2749. 3 km North of Kalos Agros near Drama, canal of an irrigation, 2.5.1989, ♂, JG, INS 2746. Kalos Agros near Drama, brook, 2.5.1989, ♂, JG, INS 3124. V - *Alnus*, *Corylus*, *Juglans*, *Platanus*, *Populus*, *Salix*, *Sambucus*, *Carex*, *Equisetum*, *Mentha*, *Rubus*, *Typha* and *Urtica*.

***Pneumia palustris* (MEIGEN, 1804)**

Taxonomy. Both sexes were briefly redescribed in a key diagnosis by EATON (1893); the male was redescribed and illustrated by Vaillant (1979). Larva and pupa were described and illustrated by Duckhouse (1962), larva redescribed and illustrated by Vaillant (1979). The generic combination of this species was corrected by Duckhouse (1987).

Distribution. Austria, Belgium, Canary Islands, Czech Republic, Denmark, Finland, France (including Corsica), Germany, Great Britain, Greece, Hungary, Ireland, the Netherlands, Poland, Romania, Sweden, Turkey, former Yugoslavia.

Material examined. Aghia Varvara near Veria, 2.7.1989, ♂, G, INS 3083. Arnea, Halkidiki - Eparchia Arneas, gutter, 24.4.1989, ♂, J, INS 3656. 3 km North of Kalos Agros near Drama, canal of an irrigation, 2.5.1989, ♂, JG, INS 2747. Kalos Agros near Drama, brook, 2.5.1989, ♂, JG, INS 3132. Krini, Eparchia Halkidikis, a rill among hills, 20.4.1989, ♂, J, INS 3674. Mesorrahi near Serres, spring area, 2.5.1989, ♂, JG, INS 3192. Paleocastro near Poligiros (town), central Halkidiki, village gutter, 23.4.1989, ♂, J, INS 3677. 3 km north-west of Paleocastro, river, forest, 23.4.1989, ♂, J, INS 3750. Vizitsa, Pelion mountains, 8.8.1989, ♂, G, INS 3678. 2 km North of Poligiros (town), central Halkidiki, spring area with overlaps, forest, 23.4.1989, 2 ♂, J, INS 3135 and 3760. V - *Carpinus*, *Crataegus*, *Juniperus*, *Pinus*, *Platanus*, *Populus*, *Quercus*, *Salix*, *Sambucus*, *Tilia*, *Carex*, *Equisetum*, *Ficaria*, *Hedera*, *Juncus*, *Mentha*, *Muscari*, Musci, Poaceae, *Primula*, *Rubus*, *Typha* and *Urtica*.

***Pneumia pilularia* (TONNOIR, 1940) comb. n.**

Taxonomy. Detailed descriptions and illustrations of both sexes as well as larva and pupa were given under the name *Pericoma pilularia* by Jung (1956). Male and larva were redescribed by Vaillant (1981) as *Satchelliella pilularia*.

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, Poland, Romania, Slovak Republic, Spain, former Yugoslavia; Algeria, Morocco. New to the fauna of Greece.

Material examined. Arnea, Halkidiki, gutter, 24.4.1989, ♂, J, INS 3655. 2 km North of Poligiros (town), central Halkidiki, spring area with overlaps, forest, 23.4.1989, ♂, J, INS 3761. V - *Carpinus*, *Crataegus*, *Juniperus*, *Pinus*, *Platanus*, *Quercus*, *Tilia*, *Carex*, *Ficaria*, *Hedera*, *Juncus*, *Muscari*, Poaceae, *Primula*, *Rubus* and *Urtica*.

***Pericoma* WALKER, 1856**

Subgenus *Pericoma* s. str.

***Pericoma (Pericoma) calcilega* FEUERBORN, 1923**

Taxonomy. Both sexes were redescribed by Jung (1956) and Vaillant (1978). The larva was described by Feuerborn (1923), Krüper (1931) and Vaillant (1978), the pupa by Satchell (1949).

Distribution. Austria, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Italy, Romania, Slovak Republic, former Yugoslavia.

Material examined. 2 km North of Poligiros (town), central Halkidiki, spring area with overlaps, forest, 23.4.1989, 2 ♂, J, INS 3137 and 3763. 7 km north of Poligiros (town), river with an old bridge, rocky area, 23.4.1989, ♂, J, INS 3680. V - *Carpinus*, *Juniperus*, *Pinus*, *Platanus*, *Quercus*, *Carex*, *Ficaria*, *Hedera*, *Juncus*, *Muscari*, Musci, Poaceae, *Primula* and *Urtica*.

***Pericoma (Pericoma) exquisita* EATON, 1893**

Taxonomy. The male was briefly redescribed and illustrated by Vaillant (1978). The female has neither been described in detail nor illustrated so far; it has, however, been quoted e.g. by Szabó (1960 a), Salamanna et Raggio (1984). Larva and pupa were described and figured in great details by Satchell (1949).



Distribution. Austria, Belgium, Bulgaria, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Poland, Spain, former Yugoslavia; Algeria, Tunisia; Transcaucasus (Armenia).

Material examined. Limni Volvi near Kolpos Orfanou, south of Vertiskos mountains, 25.4.1989, ♂, J, INS 3817. 3 km north-west of Paleocastro near Poligiros (town), central Halkidiki, river, forest, 23.4.1989, ♂, J, INS 3757. Paleochora near Arnea, Halkidiki borealis, brook, fields, 24.4.1989, ♂, J, INS 3747. 7 km North of Poligiros (town), river, an old bridge, rocky area, 23.4.1989, ♂, J, INS 3679. Peponia near Serres, Strimonas river, swamps, 3.5.1989, ♂, JG, INS 3111. Simantra - Patelidas near Poligiros (town), Halkidiki meridional, river, sandy banks, 22.4.1989, ♂, J, INS 3659. Stefanina, Vertiskos mountains, horse-pond, brook, 3.5.1989, ♂, JG, INS 3114. V - *Alnus*, *Carpinus*, *Juniperus*, *Olea* wood, *Pinus*, *Platanus*, *Populus*, *Quercus*, *Salix*, *Carex*, *Equisetum*, *Iris*, *Juncus*, *Mentha*, *Poaceae*, *Rubus*, *Typha* and *Urtica*.

***Pericoma (Pericoma) pseudoexquisita* TONNOIR, 1940**

Taxonomy. Characteristic features of both sexes were illustrated by Jung (1956). Figures of the male hypopygium were also published by Szabó (1960b) and Vaillant (1978). Larva and pupa were described and illustrated in great detail by Satchell (1949).

Distribution. Algeria, Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Spain, Switzerland, former Yugoslavia.

Material examined. Lithoro near Olympus, wet rocky walls, V - *Juniperus*, *Myrtha*, Musci, *Poaceae* and *Rubus*, 30.4.1989, ♂, J, INS 3291.

**Subgenus *Pachypericoma* VAILLANT, 1978**

***Pericoma (Pachypericoma) blandula* EATON, 1893**

Taxonomy. Jung (1956) presented descriptions of adults, including figures of male and female genitalia; the male was illustrated also by Vaillant (1979). Immature stages (larva and pupa) were described and illustrated by Satchell (1949).

Distribution. Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Norway, Poland, Romania, Russia, Sardinia, Slovak Republic, Spain, Sweden, Switzerland, former Yugoslavia; Algeria, Tunisia, Turkey, Transcaucasus (Georgia).

Material examined. Gorgani near Sparti, Peloponnisos, valley, brook, 21.7.1986, ♂, J, INS 3754. Mystras near Sparti, Peloponnisos, brook, 14.7.1986, ♂, J, INS 3779. Paleocastro near Poligiros (town), central Halkidiki, village gutter, 23.4.1989, ♂, J, INS 3676. Pieria mountains near Olympus, 2100 m, 40 05' north, 22 21' east, Expedition to Bulgaria, Greece and Turkey, 1- 2.8.1978, ♂, Aspöck, Rausch and Ressler leg.; INS 3740. V - *Carpinus*, *Ficus*, *Oleander* and Musci.

***Pericoma (Pachypericoma) fallax* EATON, 1893**

Taxonomy. Both sexes were briefly described in a key diagnosis by EATON (1893). The male was redescribed and illustrated e.g. by Vaillant (1979). Larva and pupa were described and illustrated by Satchell (1949).

Distribution. Belgium, Czech Republic, France, Germany, Great Britain, Hungary, Ireland, Italy, the Netherlands, Poland, Russia, Spain, former Yugoslavia; new to the fauna of Greece.

Material examined. 3 km North-West of Paleocastro near Poligiros (town), central Halkidiki, river, forest, V - *Carpinus*, *Platanus* and *Carex*, 23.4.1989, ♂, J, INS 3749.

## Conclusions

In this study, 26 species of Psychodidae are recorded in Greece for the first time and the number known from this country (53 species) is increased up to 79 species. 72 localities from Greece were evaluated, and the occurrence of several tens of undiscovered species is very probable, considering the distribution of Psychodid flies in the neighbouring countries. The discovery of 18 new species belonging to the mentioned family during the last 20 years by different authors in the territory of Greece, proves that further data are needed to form a basis for the study of the region's biodiversity, for the grid mapping for a survey of zoogeographic affinities, and for the determination of indicators of biotopes to be used for

conservation purposes (inventory and documentation of the entomofauna of the National Natural Parks). The entomofauna is undergoing profound ecological change and further research is required to watch its effects, to amplify present knowledge and to extend it to areas so far overlooked.

Additionally, some species of sand flies (Phlebotominae) have been incriminated as vectors of leishmaniasis in Greece (Léger, Pesson et Madulo-Leblond, 1986). Human patients with bronchial asthma as well as intestinal and urogenital myiasis are probably sensitive to these insects or insect-related airborne particles (widespread and common atmospheric inhalant allergens). The larvae of three subfamilies in Greece (Sycoracinae, Trichomyinae, Psychodinae) are evidently associated with aquatic systems of different types suffering from various levels of pollution. *Tinearia alternata* (SAY) and *Logima albipennis* (ZETT.) are essential elements in the cycles of biological sewage filters (Ježek, 1972). Their larvae feed upon the rich growth of algae, which would quickly clog the filter.

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# **Appendix** **Preliminary list of the Greek species of Psychodidae** **Species new to the fauna of Greece are marked with a dark circle.**

## Phlebotominae

- Phlebotomus* (s. str.) *papatasi* (SCOPOLI, 1786)
- Phlebotomus* (*Paraphlebotomus*) *alexandri* SINTON, 1928
- Phlebotomus* (*Paraphlebotomus*) *sergenti* PARROT, 1917
- Phlebotomus* (*Larroussius*) *major neglectus* TONNOIR, 1921
- Phlebotomus* (*Larroussius*) *major syriacus* ADLER et THEODOR, 1931
- Phlebotomus* (*Larroussius*) *mascittii* GRASSI, 1908
- Phlebotomus* (*Larroussius*) *perfiliewi* PARROT, 1930
- Phlebotomus* (*Larroussius*) *tobbi* ADLER, THEODOR et LOURIE, 1930
- Phlebotomus* (*Adlerius*) *balcanicus* THEODOR, 1958
- Phlebotomus* (*Adlerius*) *simici* NITZULESCU, 1931
- Sergentomyia* (s. str.) *dentata* (SINTON, 1933)
- Sergentomyia* (s. str.) *minuta minuta* (RONDANI, 1843)
- Sergentomyia* (s. str.) *minuta parroti* (ADLER et THEODOR, 1927)
- Sergentomyia* (s. str.) *theodori* (PARROT, 1942)

## Sycoracinae

*Sycorax goutneri* JEŽEK, 1990

*Sycorax popovi* JEŽEK, 1990

## Trichomyinae

*Trichomyia malickyi* WAGNER, 1982

*Trichomyia urbica* CURTIS, 1839

## Psychodinae

*Mormia malickyi* VAILLANT, 1974

*Mormia revisenda* (EATON, 1893)

● *Jovamormia caliginosa* (EATON, 1893)

● *Yomormia furva* (TONNOIR, 1940)

● *Promormia eatoni* (TONNOIR, 1940)

● *Promormia silesiensis* JEŽEK, 1983

*Atrichobrunettia graeca* JEŽEK et GOUTNER, 1993

*Atrichobrunettia ionica* WAGNER, 1984

*Atrichobrunettia simplex* WAGNER, 1984

*Atrichobrunettia tenuipennis* WAGNER et VAILLANT, 1983

● *Peripsychoda fusca* (MACQUART, 1826)

*Vaillantia cretica* WAGNER, 1993

*Telmatoscopus tetraspiculatus* JEŽEK et GOUTNER, 1993

*Karakovounimerus sarai* (SALAMANNA, 1975)

● *Panimerus denticulatus* KREK, 1971

*Panimerus elongatus* WAGNER, 1981

● *Panimerus kreki* VAILLANT, 1972

● *Parajungiella longicornis* (TONNOIR, 1919)

*Parajungiella serbica* (KREK, 1985)

● *Jungiella* (*Psychogella*) *bohémica* JEŽEK, 1979

● *Jungiella* (*Psychocha*) *ripicola* (BELLIER, 1967)

● *Paramormia* (*Duckhousiella*) *ustulata* (WALKER, 1856)

● *Clogmia albipunctata* (WILLISTON, 1893)

● *Philosepedon austriacus* VAILLANT, 1974

● *Philosepedon humeralis* (MEIGEN, 1818)

● *Feuerborniella obscura* (TONNOIR, 1919)

● *Psychodocha cinerea* (BANKS, 1894)

● *Psychodocha gemina* (EATON, 1904)

● *Psycha grisescens* (TONNOIR, 1922)

● *Psychomora trinodulosa* (TONNOIR, 1922)

● *Psychoda uniformata* HASEMAN, 1907

*Tinearia alternata* (SAY, 1824)

● *Tinearia lativentris* (BERDÉN, 1952)

● *Logima albipennis* (ZETTERSTEDT, 1850)

● *Logima erminea* (EATON, 1893)

● *Logima satchelli* (QUATE, 1955)

*Clytocyrtus* (*Boreoclytocyrtus*) *ocellaris* (MEIGEN, 1818)

*Saraiella magna* WAGNER, 1979

- Pneumia canescens* (MEIGEN, 1818) comb. n. (from *Satchelliella*)  
*Pneumia crisp* (FREEMAN, 1953) comb. n. (from *Satchelliella*)  
*Pneumia gracilis* (EATON, 1893) comb. n. (from *Satchelliella*)  
*Pneumia hellenica* (VAILLANT, 1979) comb. n. (from *Satchelliella*)  
*Pneumia malickyi* (VAILLANT, 1981) comb. n. (from *Satchelliella*)  
*Pneumia nubila* (MEIGEN, 1818) comb. n. (from *Satchelliella*)  
*Pneumia palustris* (MEIGEN, 1804)  
● *Pneumia pilularia* (TONNOIR, 1940) comb. n. (from *Satchelliella*)  
*Pneumia stammeri* (JUNG, 1954) comb. n. (from *Satchelliella*)  
*Szaboella hibernica* (TONNOIR, 1940)  
*Tonnoiriella graeca* WAGNER, 1993  
*Pericoma* (s. str.) *calcilega* FEUERBORN, 1923  
*Pericoma* (s. str.) *egeica* VAILLANT, 1979  
*Pericoma* (s. str.) *exquisita* EATON, 1893  
*Pericoma* (s. str.) *graecica* VAILLANT, 1978  
*Pericoma* (s. str.) *kariana* VAILLANT, 1978  
*Pericoma* (s. str.) *modesta* TONNOIR, 1922  
*Pericoma* (s. str.) *motasi* VAILLANT, 1978  
*Pericoma* (s. str.) *pseudoexquisita* TONNOIR, 1940  
*Pericoma* (s. str.) *tenuistylis* VAILLANT, 1978  
*Pericoma* (s. str.) *tonnoiri* VAILLANT, 1978  
*Pericoma* (*Pachypericoma*) *blandula* EATON, 1893  
● *Pericoma* (*Pachypericoma*) *fallax* EATON, 1893