

VERSLAGEN EN TECHNISCHE GEGEVENS

Instituut voor Taxonomische Zoölogie (Zoölogisch Museum)

Universiteit van Amsterdam

No. 59, 1991

Pollinating fauna of a phryganic ecosystem: species list

Th. PETANIDOU

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Introduction

Studies on the pollination biology of Mediterranean scrub vegetations (maquis and phrygana) are not available as yet on an ecosystem level. To analyse in detail the pollination food web of the phrygana, the vegetation and the pollinator fauna of a phryganic ecosystem near Athens has been continuously monitored during a period of fifty months, April, 1983 - May, 1987 (Petanidou, 1991). The study site, at Dafni, approx. 10 km W of the centre of Athens, was a 30 ha part of the Diomedes Botanical Garden of the University of Athens; see Petanidou & Ellis (submitted) for more details.

The number of pollinator species amounted to 666, which is the highest pollinator alpha diversity recorded so far for any ecosystem. A large proportion of the fauna (262 species) consisted of bees. This underlines the uniqueness and high conservation value of the phrygana as such.

Two species, viz. the Symphyta *Macrophya teutona* and *Tenthredo zona* are new to the fauna of Greece (P. Thomas, in litt.), but because the Greek entomofauna is badly documented this number probably is an understatement. The present species list of the collected material serves therefore as a contribution to the faunistics of Greece, but also forms the documentation of several publications that are in preparation on the basis of the fieldwork referred to above.

The majority of the material has been kept by the taxonomic specialists that are responsible for the identifications; a small part is kept as a reference collection at the Department of Ecology at Thessaloniki. Material that is to be collected as the result of an extension of the project, starting in 1991, will be deposited for the largest part in the collections of of the Zoölogisch Museum, Amsterdam.

The taxonomists who identified (part of) the material are mentioned under the headings of the respective orders or families; * means part, ** small part only. Only little attempts have been undertaken by me to standardise the nomenclature, lest interpretational bias might jeopardise the result.

References

- Petanidou, Th., 1991. *Pollination ecology in a phryganic ecosystem* (Greek with English summary). Ph. D. thesis, Univ. of Thessaloniki.
- Petanidou, Th. & W. N. Ellis. Pollinating fauna of a phryganic ecosystem: composition and diversity. - *Ecol. Ent.* (submitted).
- Petanidou, Th. & W. N. Ellis. Pollinating fauna of a phryganic ecosystem: phenology. - in prep.

COLEOPTERA

P. M. Hammond, Brit. Mus. London *
 E. R. Peacock, London **
 H. Schönman, Mus. nat. Hist., Vienna *
 A. Trichás, Univ. Crete *

Alleculidae

Podonta milleri Kieswetter

Bruchidae

R. J. W. Aldridge, London
 Bruchidae sp. 1
 Bruchidae sp. 2
Bruchus (Bruchidius) biguttatus Olivier
Bruchus (Bruchidius) holosericeus
 Schönherr
Bruchus (Bruchidius) tibialis Bohemann
Bruchus sp. 1
Bruchus sp. 2
Bruchus sp. 3
Spermophagus kuesteri Schilsky
Spermophagus sericeus (Fourcroy)

Buprestidae

G. Novak (Vienna)
Acmaeodera bipunctata (Olivier)
Acmaeodera boryi (Brullé)
Acmaeodera brevipes Kieswetter
Agrilus viridis (Linnaeus)
Anthaxia praeclara Mannersh.
Anthaxia quadripunctata (Linnaeus)
Anthaxia sp.
Anthaxia umbellatarum Olivier

Cantharidae

Rhagonycha sp.

Cerambycidae

Strangalia bifasciata (Müller)

Chrysomellidae

Coptocephala unifasciata (Scopoli)

Cleridae

R. Gerstmeier, Monaco
Trichodes favarius Illiger
Trichodes graecus Winld. & Zivov.
Trichodes punctatus viridifasciatus Chevrolat

Coccinellidae

Coccinella septempunctata Linnaeus
Exochomus nigromaculatus (Goeze)

Curculionidae

Curculionidae sp. 1

Curculionidae sp. 2

Curculionidae sp. 3

Dasytidae

Danacaea nigratarsis (Küsters)
Dasytes striatulus Brullé
Dasytes tristiculus Muls. Floric.
Psilothrix cyaneus (Olivier)

Dermestidae

Anthrenus museorum (Linnaeus)
Anthrenus pimpinellae Fabricius
Anthrenus sp. 1
Anthrenus sp. 2
Anthrenus sp. 3
Anthrenus verbasci (Linnaeus)
Aplocnemus sp.
Attagenus (Telopes) sp.
Attagenus bifasciatus Olivier
Attagenus sp.
 Dermestidae sp.
Globicornis nigripes (Fabricius)
Globicornis sp.
Orphilus niger (Rossi)
Trogoderma sp.

Malachiidae

Malachius bipustulatus (Linnaeus)
Malachius geniculatus Germar
Malachius marginellus Olivier
Malachius sp.

Meloidae

Mylabris quadripunctata (Linnaeus)
Nemognatha chrysomelina (Fabricius)
Zonitis immaculata (Olivier)

Mordellidae

Mordellidae sp. 1

Mordellidae sp. 2

Nitidulidae

Meligethes sp.
 Nitidulidae sp.

Oedemeridae

Oedemera flavipes (Fabricius)
Oedemera sp.

Phalacridae

Phalacridae sp.

Pythidae

Mycterus curculioides (Fabricius)

Scarabaeidae

Amphicoma apicalis Wattl.
Amphicoma distincta Fald.
Amphicoma lasserei (Germar)
Epicometis hirta (Poda)
Heterocnemis graeca Brullé
Oxythyrea funesta (Poda)

DIPTERA

V. Michelsen, Zool. Mus. Copenhagen *
 A. Pont, Brit. Mus., London (Calyptata)

Agromyzidae

Martinez, INRA, CNRA, Versailles *
 M. v. Tschirnhaus, Univ. Bielfeld, Germany
Liriomyza cicerina (Rondani)
Liriomyza orbona (Meigen)
Melanagromyza sp.
Napomyza sp. nov. near *albipennis* (Fallén)
Phytomyza sp.

Anthomyiidae

Adia cinerella Fallén
Anthomyia confusanea Michelsen
Anthomyia pluvialis (Linnaeus)
Delia hirticrura Rondani
Delia platura Meigen
Enneastigma triplex Loew
Lasiomma seminitidum Zetterstedt
Leucophora dissimilis Villeneuve
Leucophora sp.
Paregle audacula Harris

Asilidae

Asilidae sp.

Bibionidae

R. Contreras-Lichtenberg, Mus. nat. Hist,
 Vienna
 L. Tsácas, Mus. Hist. nat., Paris **
Biblio hortulanus Linnaeus
Biblio leucopterus Meigen
Biblio marci Linnaeus

Bombyliidae

D. J. Bowden, Essex, U.K.
 R. Contreras-Lichtenberg, Mus. nat. Hist,
 Vienna **
 P. du Merle, Mus. Hist. nat., Paris *
Amictus pictus Loew
Amictus validus Loew
Anthrax candens (ms name)
Anthrax discollis (ms name)
Anthrax sp. near *leucogaster* Meigen
Anthrax sp. near *virgo* Egger
 Bombyliidae sp.

Bombylisoma brevisculum Loew
Bombylius canescens Mikan
Bombylius cinerascens Mikan
Bombylius discolor Mikan
Bombylius fuliginosus Meigen
Bombylius fulvescens Meigen
Bombylius medius Linnaeus
Bombylius sp.
Bombylius undatus Mikan
Bombylius vulpinus Meigen
Conophorus glaucescens Loew
Conophorus pusillus Loew
Cytherea pallasii Loew
Exhyalanthrax sp. near *vagans* Loew
Exoprosopa jacchus Fabricius
Exoprosopa megerlei Meigen
Exoprosopa onusta Walker
Geron gibbosus Olivier
Geron sp.
Geron sp. 1 near *gibbosus* Olivier
Geron sp. 2 near *gibbosus* Olivier
Geron sp. 3 near *gibbosus* Olivier
Hemipenthes velutinus Meigen
Lomatia atropos Egger
Lomatia erinnys Loew
Lomatia grajugena Loew
Lomatia sabaea Fabricius
Oligodranes sp. nov. near *superbus* Engel
Petrorossia hesperus Rossi
Petrorossia sp. near *hesperus* Rossi
Phthiria canescens Loew
Phthiria umbripennis Loew
Phthiria vagans Loew
Thyridanthrax obliteratedus Loew
Thyridanthrax polyphemus Meigen
Thyridanthrax sp. 1
Thyridanthrax sp. 2
Toxophora maculata Rossi
Usia forcipata Brullé
Villa hottentotta (Linnaeus)

Calliphoridae

K. Rognes, Madla, Norway
 N. P. Wyatt, London**
Calliphora vicina Robineau-Desvoidy
Calliphora vomitoria Linnaeus
Lucilia sericata Meigen
Pollenia longithecata Rognes
Pollenia rudis (Fabricius)

Camillidae

J. Rohacek, Slezske Mus. Opava, CSSR
 Camillidae sp.

Chironomidae

R. Contreras-Lichtenberg, Mus. nat. Hist,

Vienna
Chironomidae sp.
Orthocladius sp.
Smittia sp.

Chloropidae

M. v. Tschirnhaus, Univ. Bielfeld, Germany
Oscinella frit (Linnaeus)
Oscinimorpha novakii (Strobl)

Conopidae

R. Contreras-Lichtenberg, Mus. nat. Hist,
Vienna *
M. C. D. Speggi, Brit. Mus., London *
Conops flavifrons Meigen
Myopa sp.
Physocephala sp.
Sicus sp.
Zodion sp. 1
Zodion sp. 2

Dolichopodidae

G. Grovaert, Brussels
Medetera sp.

Drosophilidae

G. Bächli, Zool. Mus., Univ. Zürich
Scaptomyza pallida Zetterstedt

Empididae

M. Chvála, Univ. Karlova, Prague, CSSR
(Ramphomyia)
G. Grovaert, Brussels
Empis (Coptophlebia) sp.
Empis (Empis) sp.
Rhamphomyia sp.

Lauxaniidae

J. Rohacek, Slezske Mus. Opava, CSSR
Lauxaniidae sp.

Muscidae

Graphomyia maculata Scopoli
Hebecnema fumosa Meigen
Helina evecta Harris
Helina reversio Harris
Hydrotaea cinerea Robineau-Desvoidy
Muscina stabulans Fallén
Neomyia cornicina Fabricius

Otitidae

R. Rozkosny, Univ. Brno, CSSR
Dorycera hybrida Loew

Psilidae

J. Rohacek, Slezské Mus. Opava, CSSR
Psilidae sp.

Rhinophoridae

Th. Pape, Zool. Mus. Copenhagen
Phyto adolescens Rondani
Stevenia signata Mik

Sarcophagidae

Th. Pape, Zool. Mus. Copenhagen
R. Richet, Boulogne sur Mer, France **
Miltogramma murinum Meigen
Miltogramma sp.
Sarcophaga (Heteronychia) graeca
(Rohdendorf)
Sarcophaga (s.l.) sp. 1
Sarcophaga (s.l.) sp. 2
Sarcophaga (s.l.) sp. 3
Sarcophaga consanguinea Rondani
Sarcophaga haemorrhoides Böttcher
Sarcophaga novercoides Böttcher
Sarcophaga portchinskyana Rohdendorf
Sarcophaga sp.nr. *violovitshi* Rohdendorf
Sarcophaga taurica (Rohdendorf)

Scatophagidae

Scatophaga stercoraria (Linnaeus)

Sepsidae

R. Contreras-Lichtenberg, Mus. nat. Hist,
Vienna
Sepsis aff. *punctum* Fabricius

Stratiomyidae

Lasiopa balius Walker

Syrphidae

R. Contreras-Lichtenberg, Mus. nat. Hist,
Vienna **
P. Goeldin, Zool. Mus. Lausanne *
J. A. W. Lucas, Rotterdam, The Netherlands (*,
mainly *Eumerus* & *Merodon*)
M. C. D. Speggi, Brit. Mus., London **
Ceroides conopoides (Linnaeus)
Chamaesyrrhus near *Iusitanicus* Mikan
Chrysotoxum intermedium Meigen
Episyrphus balteatus (Degeer)
Eristalinus aeneus (Scopoli)
Eristalinus taeniops Wiedemann
Eristalis arbustorum (Linnaeus)
Eristalis pratorum (Meigen)
Eristalis sp.
Eristalis tenax (Linnaeus)
Eristalis ventralis Thomson
Eumerus amoenus Loew
Eumerus basalis Loew
Eumerus pulchellus Loew
Eumerus pusillus Loew
Eumerus aff. *sabulonum* Fallén

Eumerus sp.
Eumerus tricolor Fabricius
Helophilus trivittatus Fabricius
Heringia heringi Zetterstedt
Heringia sp.
Melanostoma mellinum (Linnaeus)
Meliscaeva auricollis (Meigen)
Merodon albifrons Meigen
Merodon annulatus (Fabricius)
Merodon avidus (Rossi)
Merodon clavipes (Fabricius)
Merodon femoratus Sack
Merodon longicornis Sack
Merodon minutus Strobl
Merodon nigratarsis Rondani
Merodon sp.
Merodon sp. nov. near *avidus* (Rossi)
Merodon sp. nov. 1
Merodon sp. nov. 2
Metasyrphus corollae (Fabricius)
Metasyrphus lapponicus (Zetterstedt)
Myathropa florea (Linnaeus)
Neocnemodon latitarsis (Egger)
Paragus bicolor Fabricius
Paragus haemorrhous Meigen
Paragus quadrifasciatus Meigen
Paragus tibialis Fallén
Scaeva albomaculata (Macquart)
Scaeva pyrastris (Linnaeus)
Scaeva selenitica (Meigen)
Sphaerophoria scripta (Linnaeus)
Syrirta pipiens (Linnaeus)
Syrphus vitripennis Meigen
Xanthandrus comtus (Harris)

Tachinidae

B. Hertig, Staatl. Mus. nat. Hist., Stuttgart *
 N. P. Wyatt, London**
Alophora pusilla (Meigen)
Athrycia trepida (Meigen)
Bithia acanthophora (Rondani)
Bithia sp. near *modesta* (Meigen)
Clairvillia pniinae Kugler
Clytiomyia sp. near *dupuisi* Kugler
Cuphocera ruficornis Macquart
Cylindromyia auriceps Meigen
Cylindromyia brassicaria (Fabricius)
Cylindromyia rufifrons Loew
Dionaea aurifrons (Meigen)
Dionaea diagramma (Meigen)
Gymnosoma sp.
Hypovoria hilaris Villeneuve
Linnaemyia soror Zimin
Phaniosoma sp. near *lateritium* (Meigen)
Siphona confusa Mesnil
Siphona sp.

Spallanzania hebes Fallén
Spallanzania rectistylum Macquart
Tachina fera Linnaeus
Tachina vernalis Robineau-Desvoidy
 Tachinidae sp.

Tephritidae

R. Contreras-Lichtenberg, Mus. nat. Hist,
 Vienna
Actinoptera mamulae Frauenfeld
Orellia falcata Scopoli
Tephritis aff. *separata* Rondani

HYMENOPTERA - APOCRITA

Andrenidae

J. Gusenleitner, Oberösterreich. Landesmuseum
 H. G. M. Teunissen, Oss, The Netherlands **
Andrena (*Ulandrena*) sp.
Andrena alfenella Perkins
Andrena athenensis Warncke
Andrena balcanica Warncke
Andrena bicolor Fabricius
Andrena bicolorata (Rossi)
Andrena canaeae Strand
Andrena carbonaria (Linnaeus)
Andrena cinereophila Warncke
Andrena clypeata Brullé
Andrena combaella Warncke
Andrena concinna Smith
Andrena crassana Warncke
Andrena distinguenda Schenck
Andrena flavipes Panzer
Andrena fulvitarsis Brullé
Andrena gallinula Warncke
Andrena grossella Grünwaldt
Andrena hattorfiana (Fabricius)
Andrena hesperia Smith
Andrena humilis Imhoff
Andrena hyemala Warncke
Andrena impunctata Perez
Andrena kriebbaumeri Schmiedeknecht
Andrena lamiana Warncke
Andrena aff. *minutula* (Kirby)
Andrena mocsaryi Schmiedeknecht
Andrena mucronata Morawitz
Andrena nana (Kirby)
Andrena nigroaenea (Kirby)
Andrena nobilis Morawitz
Andrena optata Warncke
Andrena oralis Morawitz
Andrena orientana Warncke
Andrena osychniuki Osychniuk
Andrena panurgimorpha Mavromoustakis
Andrena panurgina Destefani
Andrena rugothorace Warncke

Andrena schmiedeknechti Magretti
Andrena schulzi Strand
Andrena scita Eversmann
Andrena simontomyella Noskiewicz
Andrena sp.
Andrena taraxaci Giraud
Andrena thomsoni Ducke
Andrena tomora Warncke
Andrena truncatilabris Morawitz
Andrena ventricosa Dours
Andrena westensis Warncke

Anthophoridae

M. Schwarz, Anstelden bei Linz, Austria
 (Nomada)
 B. Tkalcu, Prague *
 P. Westrich, Tübingen, Austria (Anthophora
 mp)
 G. van der Zanden, Eindhoven, The
 Netherlands **
Amegilla albigena (Lepeletier)
Amegilla garrula (Rossi)
Amegilla magnilabris (Fedtschenko)
Amegilla quadrifasciata (Villers)
Ammobates oraniensis melectoides Smith
Anthophora agama Radoszkowski
Anthophora atroalba Lepeletier
Anthophora canescens Brullé
Anthophora dufouri Lepeletier
Anthophora nigrocincta (Lepeletier)
Anthophora ochroleuca Perez
Anthophora pilipes (Fabricius)
Anthophora retusa (Linnaeus)
Anthophora rubricrus Dours
Ceratina acuta Friese
Ceratina bispinosa Handlirsch
Ceratina cucurbitina (Rossi)
Ceratina cyanea (Kirby)
Ceratina dallatorreana Friese
Ceratina dentiventris Gerstaecker
Ceratina loewi Gerstaecker
Ceratina nigra Handlirsch
Ceratina nigrolabiata Friese
Ceratina parvula (Rossi)
Eucera albofasciata Friese
Eucera bidentata Perez
Eucera clypeata Erichson
Eucera fufurea Vachal
Eucera nigrescens contraria Tkalcu
Eucera nigrilabris rufitarsis Tkalcu
Eucera parnassia Perez
Eucera punctulata Alfken
Eucera seminuda Brullé
Eucera sp. 1
Eucera sp. 2
Eupavlovskia funeraria (Smith)

Habropoda tarsata (Spinola)
Melecta albifrons albovaria Erichson
Melecta tuberculata Lieftinck
Nomada babiysi Schwarz
Nomada basalis Herrich-Schäffer
Nomada callimorpha Schmiedeknecht
Nomada corcyraea Schmiedeknecht
Nomada distinguenda Morawitz
Nomada eos Schmiedeknecht
Nomada erythrocephala Morawitz
Nomada femoralis Morawitz
Nomada fucata Panzer
Nomada imperialis Schmiedeknecht
Nomada lucidula Schwarz
Nomada mavromoustakisi Schwarz
Nomada nobilis Herrich-Schäffer
Nomada propinqua Schmiedeknecht
Nomada rubricollis Schwarz
Nomada sp.
Nomada succincta Panzer
Nomada trispinosa Schmiedeknecht
Proxycopa olivieri (Lepeletier)
Tetralonia alternans (Brullé)
Thyreus ramosus (Lepeletier)
Thyreus truncatus (Perez)
Xylocopa iris (Christ)
Xylocopa violacea (Linnaeus)

Apidae

E. Obrecht, Univ. Bern, Switzerland
 (Bombinae)
Apis mellifera Linnaeus
Bombus terrestris (Linnaeus)
Megabombus argillaceus (Scopoli)

Braconidae

M. Fischer, Mus. nat. Hist. Vienna
 Braconidae sp. 1
 Braconidae sp. 2
 Braconidae sp. 3
 Braconidae sp. 4
 Braconidae sp. 5
 Braconidae sp. 6
 Braconidae sp. 7

Chrysididae

J. Schmidt, Linz, Austria
Chrysis analis Spinola
Chrysis incisa Buysson
Chrysis sp.
Chrysis verna Dahlbom
Elampus spina (Lepeletier)
Pseudospinolia uniformis Dahlbom

Colletidae

H. H. Dathe, Ak. Wissensch. DDR, Berlin

(Hylaeus)

Colletes eous Morice
Colletes foveolaris Perez
Colletes spectabilis Morawitz
Hylaeus bifasciatus (Jurine)
Hylaeus imparilis Förster
Hylaeus lineolatus (Schenck)
Hylaeus meridionalis Förster
Hylaeus pictus (Smith)
Hylaeus punctatus (Brullé)
Hylaeus signatus (Panzer)
Hylaeus variegatus (Fabricius)

Eumenidae

J. Gusenleitner, Oberösterr. Landesmuseum

Ancistrocerus longispinosus hellenicus
 Blüthgen
Brachydynerus quadrimaculatus (André)
Chlorodynerus ypsilon rhodius (Blüthgen)
Eumenes dubius Saussure
Eumenes lunulatus Fabricius
Euodynerus velutinus (Blüthgen)
Leptochilus alpestris (Saussure)
Leptochilus limbiferus achaeus Gusenleitner
Leptochilus regulus (Saussure)
Odynerus albopictus Saussure
Odynerus femoratus Saussure
Odynerus melanocephalus (Gmelin)
Odynerus poecilus Saussure
Parontodynerus ephippium (Klug)
Symmorphus gracilis (Brullé)

Gasteruptionidae

O. Lomhold, Zool. Mus., Copenhagen

Gasteruption granulithorax (Toumier)
Gasteruption rubricans Guérin
Gasteruption terrestre Tournier

Halictidae

P. A. W. Ebmer, Puchenau bei Linz, Austria

(Halictus, Lasioglossum)
Halictus asperulus Perez
Halictus brunnescens (Eversmann)
Halictus cephalicus Morawitz
Halictus gemmeus Dours
Halictus graecus Blüthgen
Halictus aff. *nigripes* Lepeletier
Halictus p. pollinosus Sichel
Halictus resurgens Nurse
Halictus scabiosae (Rossi)
Halictus smaragdulus Vachal
Halictus sp.
Halictus s. subauratus (Rossi)
Halictus tectus Radoszkowski
Halictus tetrazonius (Klug)
Lasioglossum a. aeratum (Kirby)

Lasioglossum anellum (Vachal)
Lasioglossum brevicorne (Schenck)
Lasioglossum convexiusculum (Schenck)
Lasioglossum crassepunctatum (Blüthgen)
Lasioglossum cristula donatum (Warncke)
Lasioglossum laticeps hellenicum (Blüthgen)
Lasioglossum leucozonium clusium (Warncke)
Lasioglossum limbelloides (Blüthgen)
Lasioglossum l. limbellum (Morawitz)
Lasioglossum lineare (Schenck)
Lasioglossum lucidulum (Schenck)
Lasioglossum malachurum (Kirby)
Lasioglossum marginatum (Brullé)
Lasioglossum mediterraneum (Blüthgen)
Lasioglossum mesosclerum (Perez)
Lasioglossum n. nigripes (Lepeletier)
Lasioglossum nitidulum fudakowskii
 (Noskiewicz)
Lasioglossum obscuratum acerbum (Warncke)
Lasioglossum pauxillum (Schenck)
Lasioglossum p. politum (Schenck)
Lasioglossum pygmaeum patulum (Vachal)
Lasioglossum quadrinotatum (Kirby)
Lasioglossum sp.
Lasioglossum subaenescens asiaticum (Dalla
 Torre)
Lasioglossum transitorium (Schenck)
Lasioglossum v. villosulum (Kirby)
Lasioglossum zonulum (Smith)
Nomia sp.
Nomioides facilis (Smith)
Pseudapis diversipes (Latreille)
Pseudapis monstrosa (Costa)
Pseudapis u. unidentata (Olivier)
Rophites algius graecus Warncke
Rophites quinquespinosus Spinola
Sphecodes ephippius (Linnaeus)
Systropha planidens Giraud

Ichneumonidae

R. Hinz, Einbeck, Germany

H. Schnee, Markkleeberg, Germany
 (Anomaloniinae)
Amblyteles armatorius (Förster)
Clypeocampulum lubricum (Atanasov)
Diphyus quadripunctorius (Müller)
 Ichneumonidae sp.
Mesochorus sp.
Odinophora occidentalis (Tosquinet)
Oxytorus armatus Thomson

Masaridae

W. Borsato, Mus. civ. Stor. nat. Verona *

J. Gusenleitner, Oberösterr. Landesmuseum *
Celonites abbreviatus Villeneuve
Celonites cyprius smyrnensis Richards

Megachilidae

M. Schwarz, Anstelden bei Linz, Austria *

B. Tkalcu, Prague *

G. van der Zanden, Eindhoven, The Netherlands **

Anthidiellum strigatum luteum (Friese)*Anthidium dalmaticum* Mocsáry*Anthidium florentinum* (Fabricius)*Anthidium manicatum* (Linnaeus)*Anthidium taeniatum* Latreille*Anthidium undulatum* Dours*Anthocopa* (A.) *bisulca* (Gerstaecker)*Anthocopa* (A.) *papaveris* (Latreille)*Anthocopa* (A.) *perezi* (Ferton)*Anthocopa* (A.) *yemasoyiae corcyraea* Tkalcu*Anthocopa* (Arctosmia) *obtusa* (Friese)*Anthocopa* (Erythrosmia) *andrenoides* (Spinola)*Anthocopa* (Hoplosmia) *spinigera* (Latreille)*Anthocopa* (Odontanthocopa) *scutellaris* (Morawitz)*Anthocopa* (Odontanthocopa) *bidentata* (Morawitz)*Chalicodoma albocristata* (Smith)*Chalicodoma ericetorum* (Lepeletier)*Chalicodoma hungarica* Mocsáry*Chalicodoma lefebvrei* (Latreille)*Chalicodoma manicata* (Giraud)*Chalicodoma montenegrensensis* (Dours)*Chalicodoma parietina nestorea* (Brullé)*Chalicodoma pyrenaica* Lepeletier*Chelostoma appendiculatum* (Morawitz)*Chelostoma campanularum* (Kirby)*Chelostoma emarginatum* (Nylander)*Chelostoma hellenicum* (Benoist)*Chelostoma transversum* (Friese)*Coelioxys rufocaudata* Smith*Coelioxys afra* Lepeletier*Coelioxys aurolimbata* Förster*Creightonella albisecta* (Klug)*Eoanthidium elongatum* (Friese)*Eoanthidium insulare* (Morawitz)*Heriades coelostomus* Benoist*Heriades crenulatus* Nylander*Heriades dalmaticus* Maidl*Heriades truncorum* (Linnaeus)*Hoplitis* (Alcidamea) *pici* (Friese)*Hoplitis* (Allosmia) *r. rufohirta* Latreille*Hoplitis* (Allosmia) *sybarita* (Smith)*Hoplitis* (H.) *crenulata* (Morawitz)*Hoplitis* (H.) *fabrei* Van der Zanden*Hoplitis* (H.) *manicata* (Morice)*Hoplitis* (H.) *pallicornis* (Friese)*Hoplitis* (Tridentosmia) *curvipes* (Morawitz)*Hoplitis* sp.*Hoplitis* sp. nov.*Icterantheidium grohmanni* (Spinola)*Megachile giraudi bicoloriventris* (Mocsáry)*Megachile pacifica* (Panzer) (= *M. rotundata* auct.)*Megachile pilidens* Alfken*Megachile* sp. aff. *circumcincta* (Kirby)*Megachile* sp. 1 nov.*Megachile* sp. 2 nov.*Megachile* sp. 3 nov.*Megachile villipes* Morawitz*Mesanthidium carduele* (Morawitz)*Metallinella brevicornis* (Fabricius)*Osmia* (Caerulosmia) *moreensis* Van der Zanden*Osmia* (Caerulosmia) *nana* Morawitz*Osmia* (Caerulosmia) *nicosiana* Mavromoustakis*Osmia* (Caerulosmia) *v. versicolor* Latreille*Osmia* (Chalcosmia) *f. fulviventris* (Panzer)*Osmia* (Chalcosmia) *l. latrellei* (Spinola)*Osmia* (Chalcosmia) *m. melanogaster* Spinola*Osmia* (Chalcosmia) *s. signata* Erichson*Osmia* (Chalcosmia) *subcornuta* Morawitz*Osmia* (Helicosmia) *aurulenta* (Panzer)*Osmia* (Monosmia) *apicata* Smith*Osmia* (O.) *m. mustelina* Gerstäcker*Osmia* *c. caerulescens* (Linnaeus)*Osmia longiceps* Morawitz*Osmia* sp.*Protosmia* (Rhodosmia) *tauricola* Popov*Pseudoanthidium alpinum* (Morawitz)*Pseudoanthidium cribratum* Morawitz*Pseudoanthidium lituratum* (Panzer)*Pseudoheriades asiaticus* (Friese)*Pseudoheriades hofferi* Tkalcu*Rhodanthidium caturigense* (Giraud)*Rhodanthidium septemdentatum* (Latreille)*Stelis punctulatissima* (Kirby)*Trianthidium caturigense ducale* (Morawitz)**Melittidae***Dasypoda* sp.**Sapygidae***Sapyga quinquepunctata* (Fabricius)**Scolidae**

J. Gusenleitner, Oberösterreich. Landesmuseum *

O. Lomhold, Zool. Mus., Copenhagen *

Scolia galbula (Pallas)*Scolia hirta* Schrank*Trielis quinquecincta* (Fabricius)**Sphecidae**

O. Lomhold, Zool. Mus., Copenhagen

Ammatomus rogenhoferi (Handlirsch)*Ammophila heydeni* Dahlbom

Bembicinus peregrinus Smith
Bembix oculata Latreille
Bembix pallida Radoszkowski
Cerceris arenaria (Linnaeus)
Cerceris eryngii Marquet
Cerceris flavicornis Brullé
Cerceris sabulosa (Panzer)
Chalybion omissum (Kohl)
Ectemnius crassicornis (Spinola)
Lestica clypeata Schrank
Pemphredon lethifer Shuckard
Prionyx kirbyi (Van der Linden)
Sceliphron destillatorium (Illiger)
Sphex pruinus Germar
Sphex rufocinctus (Brullé)
Stizoides tridentatus (Fabricius)
Stizus ruficornis (Fabricius)
Tachysphex incertus (Radoszkowski)
Tachysphex pepa Gussakovskij

Tiphidae

Tiphia caucasica Mocsáry

Vespidae

W. Borsato, Mus. civ. Stor. nat. Verona,
 Italy *
 J. Gusenleitner, Oberösterr. Landesmuseum
Paravespula germanica (Fabricius)
Polistes associus Kohl
Polistes dominulus (Christ)
Polistes gallicus (Linnaeus)

Hymenopteron sp.

HYMENOPTERA - SYMPHYTA

P. Thomas, Leiden, The Netherlands

Argidae

Arge scita Mocsáry

Cephidae

Cephidae sp.

Cimbicidae

Amasis lateralis Brullé
Amasis similis Mocsáry

Tenthredinidae

Athalia glabricollis Thomson
Cuneala dahli (Klug)
Macrophya teutona (Panzer)
Tenthredo zona Klug
Tenthredo zonula Klug

LEPIDOPTERA

I. G. Kóutsis, Athens

Hesperiidae

Carcharodus alceae (Esper)
Pyrgus centaureae Rambur
Thymelicus acteon (Rottemburg)

Incurvaridae

F. Kasy, Mus. nat. Hist., Vienna
Adela australis Herrich-Schäffer

Lycaenidae

Aricia agestis (Denis & Schiffermüller)
Callophrys rubi (Linnaeus)
Freyeria trochylus Freyer
Glaucopsyche alexis Poda
Lycaena phlaeas (Linnaeus)
Nordmannia ilicis (Esper)
Polyommatus icarus (Rottemburg)
Pseudophilotes vicrama schiffermuelleri
 Hemming
Strymonidia spini (Denis & Schiffermüller)

Nymphalidae

Vanessa atalanta (Linnaeus)

Papilionidae

Iphiclides podalirius (Linnaeus)
Papilio alexanor Esper
Papilio machaon Linnaeus
Zerynthia polyxena (Denis & Schiffermüller)

Pieridae

Artogeia rapae (Linnaeus)
Colias crocea (Fourcroy)
Euchloe ausonia (Hübner)
Gonepteryx rhamni (Linnaeus)
Pieris brassicae (Linnaeus)
Pontia daplidice (Linnaeus)

Satyridae

Maniola jurtina (Linnaeus)
Melanargia larissa Geyer
Neohipparchia fatua Freyer
Satyrus ferula Fabricius

Sphingidae

Macroglossum stellatarum (Linnaeus)

Zygaenidae

Zygaena carniolica (Scopoli)
Zygaena punctum Ochsenheimer

HETEROPTERA

M. Josifov, Zool. Inst., Sofia *
H. Günther, Ingelheim, Germany

Coreidae

Coreidae sp.
Coriomeris hirticornis (Fabricius)
Coriomeris spinolai (Costa)
Loxocnemis dentator (Fabricius)

Corizidae

Corizus hyoscyami (Linnaeus)
Liorhyssus hyalinus (Fabricius)

Lygaeidae

Lygaeus e. equestris (Linnaeus)
Metopoplax origani (Kolenati)
Nysius cymoides (Spinola)
Nysius graminicola (Kolenati)
Oxycarenus hyalinipennis (Costa)

Microphysidae

Loricula sp.

Miridae

S. Drosópoulos, Benáki phytopathol. Inst.,
Athens *
D. Pluot-Signalt, Paris *
Calocoris angularis (Fieber)
Calocoris cinctipes (Costa)
Calocoris histrio Reuter
Calocoris nemoralis (Fabricius)
Calocoris sp.
Deraeocoris (D.) schach (Fabricius)
Macrotylus nigricornis Fieber
Miridae sp. (larvae)
Plagiognathus (P.) bipunctatus Reuter
Psallus a. ancorifer (Fieber)
Psallus sp.

Pentatomidae

Carpocoris m. mediterraneus Tam.
Carpocoris pudicus (Poda)
Dolycoris baccarum (Linnaeus)
Eurydema ornatum (Linnaeus)
Graphosoma lineatum (Linnaeus)
Odontotarsus sp.
Sciocoris sp. (larvae)

HOMOPTERA

J. Dlabola, Narodni Mus. Prague

Cicadellidae

Selenocephalus pallidus Kirschbaum

NEUROPTERA**Nemopteridae**

Nemoptera sp.

