

Insect Types in the ZFMK Collection, Bonn: Siphonaptera

(last update: April 2006)

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running title:

LAMPE, ROHWEDDER & RACH: Insect Types in ZFMK section Hymenoptera

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Abstract. The type specimens of Siphonaptera housed in the Zoologisches Forschungsinstitut und Museum Alexander Koenig (ZFMK), Bonn, are listed. There are 8 names recorded; of these 2 (25%) are represented by name bearing (i.e., primary) types. Specific and subspecific names are listed alphabetically, followed by the original genus name, bibliographic citation, original label information (in case of primary types), date and place collected, and finally the geographical coordinates (latitude and longitude based on geo-referencing process).

Key words. Type specimens, Siphonaptera

Introduction

This catalogue is generated from the specimen based database BIODAT. Data capture was mainly done within the DIG project ('Digitization of key Insect groups at ZFMK'). DIG is one of the subprojects of the German GBIF subnode Insecta. It is financially supported by the German Ministry of Science and Education (BMBF) and will run until the end of the year 2005. By adaptation to the ABCD schema (Access to Biological Collection Data) BIODAT became both a BIOCASE- (Biological Collection Access Service for Europe) and GBIF- (Global Biodiversity Information Infrastructure) provider. Therefore full information at the specimen level, and not only of type specimens, for selected ZFMK insect collections (starting with "Homoptera" & Orthoptera) will be sustainably available on the World Wide Web. In case of type specimens we will successively provide images of the type itself and of the original labels.

In this publication the specific and subspecific taxa are grouped by orders and arranged alphabetically. They are listed by species epitheta, followed by the genus name (both in the original spelling), author and year. The citation of the original description was checked and is followed by BIODAT's catalogue number, type status, number of specimens, developmental stage and sex. If the current classification differs from the original name, the valid name is added together with its bibliographic source. In a similar manner the designation of lecto- and neotypes are referenced. The abbreviations of all citations are based on the "World List of Scientific Periodicals" (Brown, P. and G. B. Stratton, 1963). All primary types are listed with the original label information, supplemented by date- and place collected information (normally 'named area' information, the more exact 'gathering site' information are marked). Historical or 'older' place names are updated with names in common use (in parentheses) and higher ranked geographic information such as region, country and continent is added in a hierarchy. Since geo-referencing of collecting places and sites, by using the Alexandria Digital Library gazetteer (ADL) and similar authority files, is part of databasing our collections with BIODAT, the resulting latitude and longitude information could be added easily. To avoid hypertrophic text length most of the secondary types are listed without original label information. If the collection, however, harbour only secondary types of a given taxon the original label information is given for the first type specimen. Table 1 shows the number of primary and secondary types in insect orders of ZFMK section Hymenoptera.

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Tab. 1: Types in insect collections of ZFMK (last update: April 2006)

	Holo- types	Lecto- types	Syn- types	Neo- types	'Allo- types'	Para- types	Para- lecto- types	Para- neo- types	Status of Type unclear
Siphonaptera	2				2	27			

Images of the respected type specimens are presented on the web via <http://www.biodat.de>.

Siphonaptera

agyrtes prothelenus, *Ctenophthalmus* (*Ctenophthalmus*) Peus, 1958

Peus (1958): Mitt. zool. Mus. Berlin 34(1): 156

SIP 1978/26 **Paratype** 1 adult female
SIP 1978/27 **Paratype** 1 adult male

Graecia, Euböa - Dirphys-Gebirge - 45 - oberhalb Steni - ca. 600 m - 7.V.1956 - an Pitymys duodecimostatus de Sél.-Lgch. - leg. F.Peus --- female - Ctenophthalmus - agyrtes Hell. - prothelenus n.ssp. Peus - Paratypen - det. F.Peus 1957 - collectio F.Peus

7.V.1956

Steni (= Steni Dhirfios), Dhirfios Oros (mts.), Sterea Ellas & Evvoia, Greece, Europe

23°49'59" O 38°34'59" N

SIP 1978/28,29 **Paratypes** 2 adult female

8.V.1956

Steni (= Steni Dhirfios), Dhirfios Oros (mts.), Sterea Ellas & Evvoia, Greece, Europe

23°49'59" O 38°34'59" N

agyrtes taygetus, *Ctenophthalmus* (*Ctenophthalmus*) Peus, 1958

Peus (1958): Mitt. zool. Mus. Berlin 34(1): 157

SIP 1978/16,17 **Paratypes** 2 adult female
SIP 1978/18 **Paratype** 1 adult male

Graecia - 48 - Taygetos, 27.IV.1956 - Passhöhe der Straße - Sparta - Kalame,

1280 m - an Pitymys duodecimostatus de Sél.-Lgch. - F.Peus leg. --- female - Ctenophthalmus - agyrtes Hell. - taygetus n.ssp. Peus - Paratypen - det. F.Peus 1957 - collectio F.Peus

27.IV.1956

Tayetos (= Taiyetos Oros (mts.)), Lakonias, Greece, Europe

22°17'59" O 37°05'59" N

algira atlantidis, *Leptopsylla* (*Leptopsylla*) Beaucournu, 1993

Beaucournu (1993): Bull. Soc. Fran. Par. 11(2): 260

SIP 2004/1 **Holotype** 1 adult male

Leptopsylla (L.) - algira atlantidis male - Crocidura canariensis - det. Beaucournu --- Holotype - Montana Clara - (Iles Canaries) - 2.V.90 - R.Hutterer et O.M. Molina rec.

2.V.1990

Montana Clara, Isla de (isld.), Lanzarote (isld.), Canary Islands (isld.), Spain, Atlantic Ocean

13°31'59" W 29°17'59" N

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SIP 2004/2 **Allotype** 1 adult female
SIP 2004/3 **Paratype** 1 adult female
 2.V.1990
 Montana Clara, Isla de (isld.), Lanzarote (isld.), Canary Islands (isld.), Spain, Atlantic Ocean
 13°31'59" W 29°17'59" N

algira vogeli, *Leptopsylla* (*Leptopsylla*)

Beaucournu, 1990

Beaucournu (1990): Bonn. Zool. Beitr. 41(3-4): 214

SIP 1990/7 **Holotype** 1 adult male
 Leptopsylla - algira vogeli male - Crocidura sicula - ile de Gozo (Malte) - d'elevage - Vogel rec. 30-31/III/89 - det. Beaucournu --- HOLOTYPE
 30.-31.III.1989
 Gozo (= Ghawdex (isld.)), Malta, Europe
 14°15'00" O 36°02'57" N

SIP 1990/6 **Allotype** 1 adult female
SIP 1990/8,10,11 **Paratypes** 3 adult female
SIP 1990/12-14 **Paratypes** 3 adult male
 30.-31.III.1989
SIP 1990/9 **Paratype** 1 adult female
SIP 1990/15 **Paratype** 1 adult male
 XI. 1989
 Gozo (= Ghawdex (isld.)), Malta, Europe
 14°15'00" O 36°02'57" N

assimilis bernhardus, *Ctenophthalmus* (*Euctenophthalmus*)

Peus, 1965

Peus (1965): Bonn. Zool. Beitr. 15(1/2): 262

SIP 1978/12 **Paratype** 1 adult female
SIP 1978/14,15 **Paratypes** 2 adult male
 Graecia - 4 - Pindus-Gebirge - Katara, 1700 m - 2.X.1958 - Nest von ? Pitymys, ? Mierotus - leg. B.Mannheims --- Paratypus - female - assimilis - bernhardus ssp.n. Peus, 1965 - Ctenophthalmus - det. F.Peus 1964 - collectio F.Peus 2.X.1958
 Katara (mts.)(= Variko (mts.)), Pindus-Gebirge, Ipiros, Greece, Europe

SIP 1978/13 **Paratype** 1 adult male
 6.X.1958
 Pertouli (= Pertoulion), Pindhos Oros (mts.), Trikala, Greece, Europe
 21°28'00" O 39°31'59" N

congener levadianus, *Ctenophthalmus* (*Euctenophthalmus*)

Peus, 1958

Peus (1958): Mitt. zool. Mus. Berlin 34(1): 162

SIP 1978/19 **Paratype** 1 adult male
 Graecia - 40 - Levadia, Böotien - 17.V.1956 - an Pitymys duodecimostatus de Sél.-Lgch. - F.Peus leg. --- male - Ctenophthalmus - congener Roths. - levadianus n.ssp. Peus - Paratypus - det. F.Peus 1957 - collectio F.Peus 17.V.1956
 Levadia (= Levadhia), Voiotias, Greece, Europe
 22°52'59" O 38°26'00" N

gallinulae zilianus, *Dasypsyllus*

Peus, 1954

Current Classification: *Dasypsyllus* (*Dasypsyllus*) *gallinulae gallinulae* (Dale, 1878)

Peus (1954): Bonn. zool. Beitr. Sonderband I: 140

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SIP 1978/23 **Paratype** 1 adult male
SIP 1978/24,25 **Paratypes** 2 adult female

Tunst. - leg. F.Peus --- male - Dasyphyllus - gallinulae Dale - zilianus n.ssp. Peus 1954 - Paratypus - det. F.Peus 1953 - collectio F.Peus
25.VI.1952
Ziliana-Schlucht, Drama, Macedonia, Greece, Europe

hirundinis oiticus, *Ceratophyllus*

Peus, 1954

Current Classification: ***Ceratophyllus (Ceratophyllus) hirundinis* (Curtis, 1826)**

Peus (1954): Bonn. zool. Beitr. Sonderband I: 129

SIP 1978/20 **Paratype** 1 adult male
SIP 1978/21,22 **Paratypes** 2 adult female

Graecia - Karya, Olymp - 26.VI.1952 - Nester von Delichon urbica (L.) im Dorf - leg. F.Peus --- male –
Ceratophyllus - hirundinis Curt. - oiticus n.ssp. - Paratypus - det. F.Peus 1953 - collectio F.Peus
26.VI.1952
Karya (= Karia), Korinthias, Greece, Europe
22°25'00" O 38°00'59" N

References

- BEAUCOURNU, J.-C. (1990): *Leptopsylla algira vogeli* n.ssp. (*Siphonaptera*, *Ceratophyllidae*, *Leptopsyllinae*), parasite de Crocidure (*Mammalia*, *Insectivora*, *Crocidurinae*) sur l'île de Gozo (Archipel de Malte). Bonner zoologische Beiträge **41(3-4)**:213-222.
- BEAUCOURNU, J.-C. (1993): *Leptopsylla algira atlantis* n.ssp. (*Insecta*, *Siphonaptera*), endémique des Iles Canaries. Bulletin de la Société Française de Parasitologie **11(2)**:259-263.
- BROWN, P. AND G.B. STRATTON (1963): World List of Scientific Periodicals Published in the Years 1900 – 1960. London, Butterworths:1-1824.
- PEUS, F. (1954): Zur Kenntnis der Flöhe Griechenlands. Bonner Zoologische Beiträge Sonderband I. Teil:111-147.
- PEUS, F. (1958): Flöhe aus dem Mittelmeergebiet (*Ins.*, *Siphonapt.*) II. Griechenland. Mitteilungen aus dem Zoologischen Museum in Berlin **34(1)**:136-170.
- PEUS, F. (1964): Flöhe aus dem Mittelmeergebiet VI. Jugoslawien. VII. Griechenland: Pindus-Gebirge. Bonner Zoologische Beiträge **15(1/2)**:256-265.