

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

(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 Hymenoptera housed in the Zoologisches Forschungsinstitut und Museum Alexander Koenig (ZFMK), Bonn, are listed. There are 74 names recorded; of these 39 (53%) 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, Hymenoptera

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.

Acknowledgements

For checking the english text we want to thank Dr. B.J. Sinclair (ZFMK, Bonn).

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
Hymenoptera	24	3	23		9	742	5		13

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

Hymenoptera

alini, *Colletes*

Kuhlmann, 2000

Kuhlmann, 2000: Linzer biol. Beitr. 32(1): 161

- HYM 2004/84** **Holotype** 1 adult male
Mandschurei --- Charbin 7.1952 --- V.Alin leg., vend. --- Eing.Nr.6, 1953 --- HOLOTYPE --- *Colletes alini* n.sp. ---
male --- M. Kuhlmann det. 1999
7.1952
Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
126°39'00" O 45°45'00" N
- HYM 2004/85-88** **Paratypes** 4 adult male
7.1952
- HYM 2004/89** **Paratype** 1 adult male
27.7.1952
Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
126°39'00" O 45°45'00" N
- HYM 2004/90-93** **Paratypes** 4 adult male
7.8.1951
Chulan (= Hulan), Heilongjiang, China, Asia
126°35'59" O 45°59'00" N

alpivagans, *Scopesus*

Heinrich, 1949

Current Classification: *Scopesis alpivagans* (Heinrich, 1949)

Heinrich, 1949: Mitt. münch. ent. Ges. 35-39: 89

Yu and Horstmann, 1997: Catalogue of the World Ichneumonidae, Part 1: 437 [*Scopesis*]

- HYM 2004/111** **Paratype** 1 adult female
Berchtesgaden --- Jennermassiv --- 1200 m --- 24. Juli 47 --- *Scopesus alpivagans* Heinr. --- i.l. --- weiblich ---
det. G. Heinrich --- Paratypus
24.7.1947
Berchtesgaden, Hachelgraben, Bayern, Germany, Europe
13°00'00" O 47°37'59" N

amazona var. *lividum*, *Eciton*

Santschi, 1923

Current Classification: Synonym of *hamatum*, *Eciton* (Fabricius, 1782)

Santschi, 1923: Ann. Soc. Ent. 63: 68 [Original description of *Eciton amazona*]

Borgmeier, 1953: Stud. Ent. 2: 14 [Synonym of *Eciton hamatum*]

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

HYM 2004/846 **State of Type unclear** 1 adult
 Monte Alegre - Para. Bras. - coll. Reichensperger --- A. Reichensperger --- TYPUS --- E. amazona v. lividum Santschi ---
 mattogrossense Lüderw. = amazona Santschi --- Eciton hamatum det. Borgmeier
 Monte Alegre, Para, Brazil, America, South
 52°42'51" W 04°39'04" S

HYM 2004/847-855 **State of Types unclear** 9 adult
 Monte Alegre, Para, Brazil, America, South
 52°42'51" W 04°39'04" S

***angustatum reichenspergeri, Eciton (Holocone)* Santschi, 1924**

Current Classification: Synonym of ***Eciton vagans dubitatum* Emery, 1896**

Santschi, 1924: Ann. Soc. Ent. Belgique 64: 12
 Borgmeier, 1939b: Rev. Ent. 10(3): 405 [Synonym of Eciton vagans]
 Borgmeier, 1955: Stud. Ent. 3: 229 [Synonym of Eciton vagans dubitatum]

HYM 2004/880-890 **Paratypes** 11 adult
 Minaes Geraes - E. Luja --- Paratypus --- E. vagans reichenspergeri Santschi --- Ec. vagans dubitatum Emery
 Minas Gerais, Acre, Brazil, America, South
 42°46'59" W 08°58'00" S

HYM 2004/891-897 **Paratypes** 7 adult
 Santa Barbara, Brazil, America, South

***auxifera, Chrysis* Buysson, 1900**

Current Classification: Synonym of ***Chrysis schoenherri* Dahlbohm, 1845**

Buysson, 1900: Revue Ent. 4(19): 125-158
 Kimsey and Bohart, 1990: The Chrysidid Wasps of the World: 460 [syn. of Chrysis schoenherri]

HYM 2001/1810 **Holotype** 1 adult
 Zoulouland Dr. Martin ---- Slg. R.Oberthür - Eing.Nr.4, 1956 --- Holotypus --- Chrysis auxifera n.sp. Buyss.
 Zoulouland (= Kwazulu), KwaZulu-Natal, South Africa, Africa

***barbarula, Mutilla* Petersen, 1988**

Current Classification: ***Ronisia barbarula* (Petersen, 1988)**

Petersen, 1988: Steenstrupia 14(6): 154
 Lelej, 2002: Catalogue of the Mutillidae: 45 [Mutilla]

HYM 2004/65 **Paratype** 1 adult female
 Balearen --- Soller 2.7.27 --- v. Jordans --- Mutilla barbarula n.sp. --- B. Petersen det. 1987 --- PARATYPE
 2.7.1927

Sóller, Mallorca (isld.), Baleares, Islas (isld.), Spain, Europe
 02°42'00" O 39°45'59" N

HYM 2004/66 **Paratype** 1 adult female
 6.1927

Alcudia, Mallorca, Baleares, Islas (isld.), Spain, Europe
 03°07'00" O 39°52'00" N

***barbata, Mimopria* Borgmeier, 1939**

Borgmeier, 1939b: Rev. Ent. 10(3): 534

HYM 2004/842-843 **Syntypes** 2 adult
 Campinas Goyaz - E. crassic. - 717. 9.3.36 --- Cotype --- Mimopria barbata Borgm. - det. Borgmeier
 Campinas, Goias, Brazil, America, South
 47°19'00" W 11°33'00" S

***caelebs, Cerceris* Giner Mari, 1942**

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

Giner Mari, 1942: Eos, Madr. 18: 133

HYM 2004/2 **Holotype** 1 adult male
Kuatun (2300 m) 27,40n.Br. --- 117,40ö.L. J.Klapperich --- 5.10.1938 (Fukien) --- male --- *Cerceris caelebs*
Giner --- male --- det. Giner Mari --- TYPUS
5.10.1938
Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
117°40'00" O 27°40'00" N

coelicola, Cerceris

Giner Mari, 1942

Giner Mari, 1942: Eos, Madr. 18: 116

HYM 2004/3 **Paratype** 1 adult male
Kwangtseh - Fukien --- J. Klapperich --- 17.8.1937 --- male --- *Cerceris coelicola* Giner --- male --- det. Giner Mari
--- COTYPUS
17.8.1937
Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia
117°24'00" O 27°30'00" N

comes, Mimopria

Borgmeier, 1939

Borgmeier, 1939b: Rev. Ent. 10(3): 532

HYM 2004/830-834 **Syntypes** 5 adult
Campinas, Goyas - Schwarzmaier [unterseits handschriftlich] 717 --- Cotype --- *Mimopria comes* Borgm. - det.
Borgmeier --- E. dulcius ?
1928-1938
Campinas, Goias, Brazil, America, South
47°19'00" W 11°33'00" S

confusa, Cerceris

Giner Mari, 1942

Giner Mari, 1942: Eos, Madr. 18: 118

HYM 2004/4 **Paratype** 1 adult male
Kwangtseh - Fukien --- J. Klapperich --- 17.8.1937 --- male --- *Cerceris confusa* Giner --- male --- det. Giner Mari
--- COTYPUS
17.8.1937
Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia
117°24'00" O 27°30'00" N

crassicorne var. indomabile, Eciton (Holopone)

Santschi, 1930

Current Klassifikation: Synonym of *Nomamyrmex esenbeckii* (Westwood, 1842)

Santschi, 1930: Bull. Soc. Ent. Egypte: 82

Borgmeier, 1955: Stud. Ent. 3: 139 [Synonym of *Nomamyrmex esenbeckii*]

HYM 2004/835-841 **Paratypes** 7 adult
Olinda - Pernambuco - coll.Reichensperger --- Paratype! --- *Holop. crassicorne var. indomabile* Santschi n.var.
Olinda, Pernambuco, Brazil, America, South
34°51'00" W 08°01'00" S
HYM 2004/867-877 **Paratypes** 11 adult
HYM 2004/898-908 **Paratypes** 11 adult
Olinda, Pernambuco, Brazil, America, South
34°51'00" W 08°01'00" S

densepunctatum, Eciton (Acamatus)

Borgmeier, 1933

Current Klassifikation: Synonym of *Neivamyrmex densepunctatum* (Borgmeier, 1933)

Borgmeier, 1933: Arch. Esc. Sup. Agric. Med. Vet. 10 (2): 162

Borgmeier, 1953: Stud. Ent. 2: 5 [Neivamyrmex]

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

- HYM 2004/702-706** **Paratypes** 5 adult
Quatro --- Brasil. Zikán --- Itatiaia --- Paratype ! --- Reichensperger --- Ec. Acamat. --- densepunctat. --- 1932 Borgm.
17.3.1926
Itatiaia (= Itatiaia), Rio de Janeiro, Brazil, America, South
44°34'00' W 22°30'00" S
- HYM 2004/707-712** **Paratypes** 6 adult
Passa Quatro, Minas Gerais, Brazil, America, South
44°58'00' W 22°22'59" S
- HYM 2004/789-800** **Paratypes** 12 adult
17.3.1926
Campo Bello (= Itatiaia), Rio de Janeiro, Brazil, America, South
44°34'00' W 22°30'00" S

detectus, *Neivamyrmex*

Borgmeier, 1953

Borgmeier, 1953: Stud. Ent. 2: 25

- HYM 2004/813** **Paratype** 1 adult
Eug. Lefevre - (S. Paulo), Trav. Lopes et Oiticica - 1-XI-37 --- Cotypus --- Neivamyrmex detectus Borgm. - det.
Borgmeier
1.11.1937
Eugênio Lefèvre, Sao Paulo, Brazil, America, South

detrita var. *melanopyga*, *Pimpla*

Ulbricht, 1909

Current Classification: Synonym of *Endromopoda nigricoxis* (Ulbricht, 1910)

Ulbricht, 1909: Mitt. Ver. Naturk. Krefeld: 19

Horstmann, 1997: Z. Arbgem. Österr. Entomol. 49: 51 [syn. of *Endromopoda nigricoxis*]

- HYM 2004/109** **Holotype** 1 adult female
Krefeld - 6. - Forstwald - Ulbricht --- *Pimpla nigricoxis* Ulb. - weiblich - Ulbr. det. --- Type --- weiblich Holotypus ?
- *Pimpla detrita* Hlgr. var. *melanopyga* Ulbr. - M. Sorg 1982 --- Holotypus --- *Pimpla detrita* Hlgr. var. *ulbrichtiana*
Strand - weiblich - Horstm. 1995
Krefeld, Nordrhein-Westfalen, Germany, Europe
06°34'00" O 51°19'59" N

detrita var. *ulbrichtiana*, *Pimpla*

Strand, 1918

Current Classification: Synonym of *Endromopoda nigricoxis* (Ulbricht, 1910)

Strand, 1918: Ent. Mitt. 7: 156

Horstmann, 1997: Z. Arbgem. Österr. Entomol. 49: 53 [syn. of *Endromopoda nigricoxis*]

- HYM 2004/109** **Holotype** 1 adult female
Krefeld - 6. - Forstwald - Ulbricht --- *Pimpla nigricoxis* Ulb. - weiblich - Ulbr. det. --- Type --- weiblich Holotypus ?
- *Pimpla detrita* Hlgr. var. *melanopyga* Ulbr. - M. Sorg 1982 --- Holotypus --- *Pimpla detrita* Hlgr. var. *ulbrichtiana*
Strand - weiblich - Horstm. 1995
Krefeld, Nordrhein-Westfalen, Germany, Europe
06°34'00" O 51°19'59" N

diabolica, *Cerceris*

Giner Mari, 1942

Giner Mari, 1942: Eos, Madr. 18: 139

- HYM 2004/5** **Holotype** 1 adult male
Kwangtseh - Fukien --- J. Klapperich --- 24.9.1937 --- male --- *Cerceris diabolicus* Giner --- male --- det. Giner Mari
--- TYPUS
24.9.1937
Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia
117°24'00" O 27°30'00" N

diabolica, Chrysis

Buysson, 1900

Buysson, 1900: Revue Ent. 4(19): 125-158

HYM 2001/365 **Holotype** 1 adult
 Natal - Dr. Martin --- Slg. R. Oberthür - Eing.Nr.4, 1956 --- Chrysis diabolica n.sp. Buyss. --- Holotypus
 KwaZulu-Natal, South Africa, Africa

dubitabilis, Cerceris

Giner Mari, 1942

Current Classification: Synonym of **Cerceris formosana klapperichi Giner Mari 1942**

Giner Mari, 1942: Eos, Madr. 18: 119

Bohart and Menke, 1976: Specid Wasps of the World: 581 [syn. of Cerceris formosana klapperichi]

HYM 2004/6 **Syntype** 1 adult female
 Shaowu - Fukien --- (500 m) J. Klapperich --- 24.6.1937 --- female --- Cerceris dubitabilis Giner --- female ---
 det. Giner Mari --- TYPUS
 24.6.1937
 Shaowu, Wuyi Shan (mts.), Fujian, China, Asia
 117°30'00" O 27°17'59" N

emery, Oxyopomyrmex

Santschi, 1908

Santschi, 1908: Ann. Soc. Ent. France (3): 524

HYM 2004/696-698 **Paratypes** 3 adult
 Oxyopomyrm. --- emeryi Sants. --- Cotype --- Paratypus
 März 1908
 Kairouan, Al Qayrawan, Tunisia, Africa
 10° 06' 06" O 35° 40' 28" N

eos, Lasioglossum (Lasioglossum)

Ebmer, 1978

Ebmer, 1978: Bonn. zool. Beitr. 29(1-3): 192

HYM 2004/44 **Holotype** 1 adult female
 Mandschurei Charbin 5.1952, V. Alin leg., vend., Eing.Nr.6, 1953 --- Holotypus --- LASIOGLOSSUM Lasioglossum
 eos n.sp., det. A.W.Ebmer 1975
 5.1952
 Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N

HYM 2004/46 **Allotype** 1 adult male
 7.1952

HYM 2004/45 **Paratype** 1 adult female
 5.1952

HYM 2004/47 **Paratype** 1 adult male
 7.1952

HYM 2004/48-50 **Paratypes** 3 adult female
 2.5.1954
 Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N

erythrogaster var. annulicornis, Stylocryptus

Aerts, 1953

Current Classification: Synonym of **Endasys annulatus (Habermehl, 1912)**

Aerts, 1953: Nachr. naturw. Mus. Aschaffenh. 40: 11

Sawoniewicz and Luhman, 1992: Entomofauna 13: 1-96 [syn. of Endasys annulatus]

HYM 2004/102 **Lectotype** 1 adult female
 Köln K.F. --- an Picea --- Aerts --- 21.6.49 --- St. erythrogaster f. annulicornis Aerts --- Lectotypus ---
 Stylocryptus erythrogaster Gr. f. annulicornis Aerts --- weiblich --- Horstm. 1986
 21.6.1949

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

Königsforst Köln, Nordrhein-Westfalen, Germany, Europe
 07°07'59" O 50°56'00" N

HYM 2004/103 **Paralectotype** 1 adult female
 15.6.1944

HYM 2004/104 **Paralectotype** 1 adult female
 20.6.1946

Königsforst Köln, Nordrhein-Westfalen, Germany, Europe
 07°07'59" O 50°56'00" N

erythrogaster var. nigriventris, Stylocryptus

Aerts, 1953

Current Classification: Synonym of ***Endasys alutaceus* (Habermehl, 1912)**

Aerts, 1953: Nachr. naturw. Mus. Aschaffenh. 40: 11

Sawoniewicz and Luhman, 1992: Entomofauna 13: 1-96 [syn. of *Endasys alutaceus*]

HYM 2004/105 **Lectotype** 1 adult male

Köln K.F. --- an Picea --- Aerts --- 15.6.44 --- erythrogaster f. nigriventris Aerts --- Lectotypus --- Stylocryptus
 erythrogaster Gr. f. nigriventris Aerts --- männlich --- Horstm. 1986
 15.6.1944

Königsforst Köln, Nordrhein-Westfalen, Germany, Europe
 07°07'59" O 50°56'00" N

HYM 2004/106 **Paralectotype** 1 adult male

11.6.1944

Königsforst Köln, Nordrhein-Westfalen, Germany, Europe
 07°07'59" O 50°56'00" N

fagi, Mesopolobus

Askew, R.R & Lampe, K.H., 1998

Askew and Lampe, 1998: Entomologist's mon. Mag. 134: 54

HYM 2004/67-68 **Paratypes** 2 adult male

D-Frankfurt/M. Hofheim/Lorsbach coll. 250983 --- INK.01028415c EM 250284 --- K.Lampe --- Mesopolobus
 sp. male --- ex gall of --- Mikiola fagi (Hartig) --- on Fagus sylvatica L. --- Lampe --- Mesopolobus --- fagi male
 Paratype --- R.R. Askew 1996
 25.9.1983

Lorsbach, Hessen, Germany, Europe
 08°25'00" O 50°07'00" N

HYM 2004/69-70 **Paratypes** 2 adult male

HYM 2004/71 **Paratype** 1 adult female

13.10.1984

Lorsbach, Hessen, Germany, Europe
 08°25'00" O 50°07'00" N

HYM 2004/73 **Paratype** 1 adult male

HYM 2004/72 **Paratype** 1 adult female

9.10.1985

Neumünster, Schleswig-Holstein, Germany, Europe
 09°58'59" O 54°03'59" N

HYM 2004/74 **Paratype** 1 adult female

7.10.1985

Tauplitz, Steiermark, Austria, Europe
 14°00'00" O 47°32'59" N

HYM 2004/75 **Paratype** 1 adult male

6.10.1985

Pötschenpass (= Pötschenhöhe), Austria, Europe
 13°41'59" O 47°37'00" N

fraudulentus, Psilogaster

Reichensperger, 1913

Current Classification: ***Orasema fraudulenta* (Reichensperger, 1913)**

Reichensperger, 1913: Zool. Jb. Abt. Syst. Geogr. Biol. Tiere 35(2): 211

Heraty, 1994: Class. and Evol. Oraseminae: 70 [Orasema, Lectotype selection]

HYM 2004/97 **Lectotype** 1 adult female

Harrar, Abesi. --- V. --- Kristensen --- bei Pheidole --- megaceph. Fab. --- Collectio --- Reichensperger --- Psilogaster
--- fraudulentus n.sp. --- Type! R. --- TYPUS --- TYPUS--- MUSEUM KOENIG --- BONN --- LECTOTYPE ---
Orasema fraudulentus -- (Reichensperger) --- (specimen #2) --- Det. Heraty, 1990
Harrar (= Harer), Harerge, Ethiopia, Africa
42°07'00" O 09°18'59" N

HYM 2004/98-99 **Paralectotypes** 2 adult male

Harrar (= Harer), Harerge, Ethiopia, Africa
42°07'00" O 09°18'59" N

fukiensis, Cerceris

Giner Mari, 1942

Current Classification : Synonym of ***Cerceris sternodonta fukiensis* Giner Mari, 1942**

Giner Mari, 1942: Eos, Madr. 18: 140

Tsuneki, 1968: Etizenia: 9 [new status: *Cerceris sternodonta fukiensis*]

HYM 2004/11 **Syntype** 1 adult male

Shaowu - Fukien --- (500 m) J. Klapperich --- 5.6.1937 --- male --- *Cerceris fukiensis* Giner --- male --- det. Giner
Mari --- TYPUS
5.6.1937
Shaowu, Wuyi Shan (mts.), Fujian, China, Asia
117°30'00" O 27°17'59" N

HYM 2004/12 **Syntype** 1 adult female

Kwangtseh - Fukien --- J. Klapperich --- 22.7.1937 --- female --- *Cerceris fukiensis* Giner --- female --- det. Giner
Mari --- TYPUS
22.7.1937
Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia
117°24'00" O 27°30'00" N

goesswaldi, Epimyrra

Menozi, 1930

Current Classification: Synonym of ***Myrmoxenus ravouxi* (André, 1896)**

Menozi, 1930: Z. wiss. Zool. 136: 464

Buschinger, 1982: Zool. Anz. 208: [Synonym of *Epimyrra ravouxi*]

Bolton, 2003: Mem. Amer. Ent. Inst. 71: 248 [*Myrmoxenus*]

HYM 2004/817-824 **Paratypes** 8 adult

Lindelbach - 4.8.30 -- Gösswald --- Paratype ! - Reichensperger --- *Epimyrra gösswaldi* Menoz
4.8.1930
Lindelbach, Germany, Europe

imitator var. flavescens, Bombus

Pittioni, 1949

Current Classification: Synonym of ***Bombus (Tricornibombus) imitator* Pittioni, 1949**

Pittioni, 1949: Eos, Madr. 25: 254

Williams, 1998: Bull. Nat. Hist. Mus. Entomol. Ser. 67 [new status: *Bombus (Tricornibombus) imitator*]

HYM 2004/611 **Paratype** 1 adult female

Kuatun (2300 m), 27,40 n.Br., 117,40 ö.L., J.Klapperich, 5.5.1938 (Fukien) --- PARATYPE --- *B.imitator f. flavescens*
Pitt., det. Pittioni
5.5.1938
Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
117°40'00" O 27°40'00" N

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

HYM 2004/612	Paratype	1	adult	female
19.5.1938				
HYM 2004/613	Paratype	1	adult	female
20.5.1938				
HYM 2004/614	Paratype	1	adult	female
25.5.1938				
HYM 2004/615,616	Paratypes	2	adult	female
28.5.1938				
HYM 2004/618	Paratype	1	adult	female
14.6.1938				
HYM 2004/619	Paratype	1	adult	female
8.7.1938				
HYM 2004/620	Paratype	1	adult	female
11.7.1938				
HYM 2004/621	Paratype	1	adult	female
14.7.1938				
HYM 2004/617	State of Type unclear	1	adult	female
12.6.1938				
Kuatun, Wuyi Shan (mts.), Fujian, China, Asia				
117°40'00" O 27°40'00" N				

imitator, Bombus (Tricornibombus)

Pittioni, 1949

Pittioni, 1949: Eos, Madr. 25: 241-284

HYM 2004/602	Syntype	1	adult	female
Kuatun (2300 m), 27,40 n.Br., 117,40 ö.L., J.Klapperich, 24.5.1938 (Fukien) --- TYPE --- B. imitator Pitt., det. Pittioni				
24.5.1938				
Kuatun, Wuyi Shan (mts.), Fujian, China, Asia				
117°40'00" O 27°40'00" N				
HYM 2004/608	Syntype	1	adult	Arbeiterin
Kuatun (2300 m), 27,40 n.Br., 117,40 ö.L., J.Klapperich, 14.7.1938 (Fukien) --- TYPE --- B. imitator Pitt., det. Pittioni				
14.7.1938				
Kuatun, Wuyi Shan (mts.), Fujian, China, Asia				
117°40'00" O 27°40'00" N				
HYM 2004/588	Paratype	1	adult	female
1.4.1938				
HYM 2004/596	Paratype	1	adult	female
7.4.1938				
HYM 2004/597	Paratype	1	adult	female
12.4.1938				
HYM 2004/598	Paratype	1	adult	female
14.4.1938				
HYM 2004/599	Paratype	1	adult	female
15.4.1938				
HYM 2004/600	Paratype	1	adult	female
17.4.1938				
HYM 2004/601	Paratype	1	adult	female
5.5.1938				
HYM 2004/603-604	Paratypes	2	adult	female
28.5.1938				
HYM 2004/605	Paratype	1	adult	female
6.6.1938				
HYM 2004/606	Paratype	1	adult	female
20.6.1938				
HYM 2004/607	Paratype	1	adult	female
9.7.1938				
HYM 2004/609	Paratype	1	adult	female
18.7.1938				

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

HYM 2004/610 **Paratype** 1 adult female
27.7.1938
Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
117°40'00" O 27°40'00" N

insueta, Chrysis

Buysson, 1900

Current Classification: Synonym of ***Primeuchroeus ghiliani* (Gribodo, 1879)**

Buysson, 1900: Revue Ent. 4(19): 125-158

Kimsey and Bohart, 1990: The Chrysidid Wasps of the World : 541 [syn. of *Primeuchroeus ghiliani*]

HYM 2001/703 **Holotype** 1 adult
Zoulouland Dr. Martin --- Slg. R.Oberthür Eing.Nr.4,1956 --- Holotypus --- *Chrysis insueta* n.sp. Buys.
Zoulouland (= Kwazulu), KwaZulu-Natal, South Africa, Africa

klapperichi, Bombus (Pratobombus)

Pittioni, 1949

Current Classification: Synonym of ***Bombus (Pyrobombus) picipes* Richards, 1934**

Pittioni, 1949: Eos, Madr. 25: 266

Williams, 1998: Bull. Nat. Hist. Mus. Entomol. Ser. 67 [syn. of *Bombus (Pyrobombus) picipes*]

HYM 2004/623 **Holotype** 1 adult female
Kuatun (2300 m), 27,40 n.Br., 117,40 ö.L., J.Klapperich, 17.4.1938 (Fukien) --- TYPE --- *B. klapperichi* Pitt., det.
Pittioni
17.4.1938
Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
117°40'00" O 27°40'00" N

HYM 2004/589 **Paratype** 1 adult female

15.4.1938

HYM 2004/590, 625 **Paratypes** 2 adult female

25.4.1938

HYM 2004/591, 626 **Paratypes** 2 adult female

27.4.1938

HYM 2004/624 **Paratype** 1 adult female

18.4.1938

HYM 2004/627 **Paratype** 1 adult female

25.5.1938

HYM 2004/628 **Paratype** 1 adult female

28.5.1938

HYM 2004/622 **State of Type unclear** 1 adult female

13.4.1938

Kuatun, Wuyi Shan (mts.), Fujian, China, Asia

117°40'00" O 27°40'00" N

klapperichi intermedius, Bombus (Pratobombus)

Pittioni, 1949

Current Classification: Synonym of ***Bombus (Pyrobombus) picipes* Richards, 1934**

Pittioni, 1949: Eos, Madr. 25: 266

Williams, 1998: Bull. Nat. Hist. Mus. Entomol. Ser. 67 [syn. of *Bombus (Pyrobombus) picipes*]

HYM 2004/592 **Holotype** 1 adult female

Kuatun (2300 m), 27,40 n.Br., 117,40 ö.L., J.Klapperich, 29.4.1938 (Fukien) --- Type --- *B. klapperichi* f. *intermedius* Pitt., det. Pittioni

29.4.1938

Kuatun, Wuyi Shan (mts.), Fujian, China, Asia

117°40'00" O 27°40'00" N

klapperichi, *Cerceris*

Giner Mari, 1942

Current Classification: Synonym of ***Cerceris formosana klapperichi* Giner Mari 1942**

Giner Mari, 1942: Eos, Madr. 18: 121

Bohart and Menke, 1976: Sphecoid Wasps of the World: 581 [new status: *Cerceris formosana klapperichi*]

HYM 2004/7 **Syntype** 1 adult male
 Kuatun (2300 m) 27,40n.Br. --- 117,40ö.L. J.Klapperich --- 4.7.1938 (Fukien) --- male --- TYPUS --- *Cerceris klapperichi* Giner male --- det. Giner Mari
 4.7.1938
 Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
 117°40'00" O 27°40'00" N

klapperichi, *Crossocerus* (*Crossocerus*)

Beaumont, 1963

Beaumont, 1963: Rev. Suisse Zool. 70: 1-24 ?

HYM 2004/1 **Holotype** 1 adult male
 J. Klapperich --- Batausar, 2550 m --- Salangtal, 10.10.52 --- Hindukusch --- O-Afghanistan --- Type --- *Crossocerus klapperichi* Beaum. --- male --- J. de Beaumont --- det. Type 1962
 10.10.1952
 Batausar, Hendukosh, Kuh-e (mts.), Parvan, Afghanistan, Asia
 69°08'00" O 35°24'00" N

klapperichi, *Psithyrus* (*Ceratopsithyrus*)

Pittioni, 1949

Current Classification: Synonym of ***Bombus (Psithyrus) cornutus* Frison, 1933**

Pittioni, 1949: Eos, Madr. 25: 273

Williams, 1998: Bull. Nat. Hist. Mus. Entomol. Ser. 67 [syn. of *Bombus (Psithyrus) cornutus*]

HYM 2004/595 **Syntype** 1 adult male
 Kuatun (2300 m), 27,40 n.Br., 117,40 ö.L., J.Klapperich, 31.5.1938 (Fukien) --- *Ps. klapperichi* Pitt., det. Pittioni
 --- Type
 31.5.1938
 Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
 117°40'00" O 27°40'00" N

HYM 2004/594 **Paratype** 1 adult female
 12.4.1938
 Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
 117°40'00" O 27°40'00" N

kohli, *Anergatides*

Wasman, 1915

Current Classification: Synonym of ***Pheidole neokohli* Wilson, 1984**

Wasman, 1915: Ent. Mitt. 4(10/12): 283

Wilson, 1984: Ins. Soc. 31: 316 [*Pheidole*, nov. Nom.]

HYM 2004/713-714 **Syntypes** 2 adult
 Stanleyville --- Kongo --- P. H. Kohl! --- *Anergatides* --- kohli Wasm. --- TYPUS --- *Pheidole* --- melancholica --- Santsch.
 Stanleyville (= Kisangani), Haut-Zaire, Congo, The Democratic Republic , Africa
 25°11'59" O 00°31'00" N

kraemeri, *Notopygus*

Heinrich, 1949

Current Classification: Synonym of ***Notopygus niger* Gehrs, 1908**

Heinrich, 1949: Mitt. münch. ent. Ges. 35-39: 80

Aubert, 1968: Bull. mens. Soc. Linn. Lyon 37: 137-144 [syn. of *Notopygus niger*]

HYM 2004/110 **Paratype** 1 adult
 Berchtesgaden --- Jennermassiv --- 1200 m --- 10. Juni 47 --- *Notopygus kraemeri* Heinr. --- i.l. --- det. G. Heinrich
 --- Paratypus

10.6.1947

Berchtesgaden, Hachelgraben, Bayern, Germany, Europe

13°00'00" O 47°37'59" N

kwangtsehiana*, *Cerceris

Giner Mari, 1942

Giner Mari, 1942: Eos, Madr. 18: 143

HYM 2004/8 **Holotype** 1 adult female

Kwangtseh - Fukien --- J. Klapperich --- 22.7.1937 --- female --- *Cerceris kwangtsehiana* Giner --- female --- det.

Giner Mari --- TYPUS

22.7.1937

Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia

117°24'00" O 27°30'00" N

leptomanibularis*, *Chrysis

O. Niehuis, 2000

Niehuis, 2000: Mitt. Mus. Naturk. Berl. Dt. ent. Z. 47 (2000) 2: 181-201

HYM 2001/515 **Paratype** 1 adult female

Köln --- alte Hochdeutsch Schrift --- Aerts 24.6.38 --- *Chrysis obtusidens* Du. --- 2679 --- Paratypus --- *Chrysis*

leptomanibularis sp. nov. female --- det. 1999 Oliver Niehuis

24.6.1938

Dobschleiderhof /Bornheim: Rös, Nordrhein-Westfalen, Germany, Europe

06°52'00" O 50°45'59" N

leucocerus*, *Microcryptus

Aerts, 1953

Current Classification: Synonym of ***Oresbius bipunctatus* (Schmiedeknecht, 1931)**

Aerts, 1953: Nachr. naturw. Mus. Aschaffenh. 40: 10

Sawoniewicz, 1988: Ann. Zool. 41: 481-190 [syn. of *Oresbius bipunctatus*]

HYM 2004/101 **Holotype** 1 adult female

Köln K.F. --- an Picea --- Aerts --- 21.7.47 --- 53 --- *Microcryptus leucocerus* Aerts --- weiblich --- *Microcryptus*

weiblich --- det. Hedwig --- Holotypus --- *Microcryptus leucocerus* Aerts --- weiblich --- Horstm. 1985

21.7.1947

Königsforst Köln, Nordrhein-Westfalen, Germany, Europe

07°07'59" O 50°56'00" N

mandschuricus*, *Allodynerus

Bluethgen, 1953

Bluethgen, 1953: Zool. Anz. 150: 57

HYM 2004/82 **Allotype** 1 adult male

Mandschurei --- Charbin, 2.-8.8.54 --- V. Alin leg., vend. --- Eing.Nr.29, 1954 --- Allotypus --- *Allodynerus*

mandschuricus --- Bl.

2.-8.8.1954

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia

126°39'00" O 45°45'00" N

martialis*, *Cerceris

Giner Mari, 1942

Giner Mari, 1942: Eos, Madr. 18: 132

HYM 2004/9 **Holotype** 1 adult female

A-tun tse (Nord Yünnan) --- Obere Höhe (ca. 4500 m) --- 25.6.1936 H. Höne --- female --- *Cerceris martialis*

Giner --- female --- det. Giner Mari --- TYPUS

25.6.1936

A-Tun-Tse, Yunnan, China, Asia

98°48'00" O 28°28'00" N

mediterraneus manchurianus, Eumenes

Giordani Soika, 1971

Giordani Soika, 1971: Boll. Soc. ent. ital. 103: 70

- HYM 2004/76** **Holotype** 1 adult female
 Mandschurei --- Charbin, 2.-8.8.54 --- V. Alin leg., vend. --- Eing.Nr.29, 1954 --- Holotypus --- *E. mediterraneus manchurianus*
 2.-8.8.1954
 Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N
- HYM 2004/77** **Allotype** 1 adult male
 2.-8.8.1954
 Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N

mickeli, Cerceris

Giner Mari, 1942

Current Classification: Synonym of ***Cerceris tuberculata evecta Shestakov 1922***

Giner Mari, 1942: Eos, Madr. 18: 136

Bohart and Menke, 1976: Sphecid wasps of the world: 588 [syn. of *Cerceris tuberculata evecta*]

- HYM 2004/15** **Syntype** 1 adult male
 Kwangtseh - Fukien --- J. Klapperich --- 2.9.1937 --- male --- *Cerceris mickeli* Giner --- male --- det. Giner Mari --- TYPUS
 2.9.1937
 Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia
 117°24'00" O 27°30'00" N
- HYM 2004/16** **Syntype** 1 adult female
 Kwangtseh - Fukien --- J. Klapperich --- 2.9.1937 --- female --- *Cerceris mickeli* Giner --- female --- det. Giner Mari --- TYPUS
 2.9.1937
 Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia
 117°24'00" O 27°30'00" N
- HYM 2004/17** **Paratype** 1 adult male
 1.8.1937
 Shaowu, Wuyi Shan (mts.), Fujian, China, Asia
 117°30'00" O 27°17'59" N
- HYM 2004/18** **Paratype** 1 adult female
 31.8.1937
 Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia
 117°24'00" O 27°30'00" N

minutuloides, Lasioglossum (Evylaeus)

Ebmer, 1978

Ebmer, 1978: Bonn. zool. Beitr. 29(1-3): 203

- HYM 2004/911** **Allotype** 1 adult female
 Mandschurei - Erdaocheilinche - a.Fluß 24.8.1951 --- V. Alin leg., vend. - Eing.Nr.5, 1952 --- Allotypus --- LASIOGLOSSUM *Evylaeus minutuloides* n. sp. - det. A.W.Ebmer 1976 - female
 24.8.1951
 Erdaocheilinche (= Erdaohezi), Heilongjiang, China, Asia
 129°37'59" O 45°07'00" N
- HYM 2004/112** **Paratype** 1 adult male
 24.8.1951
 Erdaocheilinche (= Erdaohezi), Heilongjiang, China, Asia
 129°37'59" O 45°07'00" N
- HYM 2004/113-226** **Paratypes** 114 adult
- HYM 2004/913-915** **Paratypes** 3 adult

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

24.8.1951
 Erdaocheilinche (= Erdaohezi), Heilongjiang, China, Asia
 129°37'59" O 45°07'00" N
HYM 2004/227 Paratype 1 adult male
 26.-29.8.1951
HYM 2004/228-285 Paratypes 58 adult
HYM 2004/916-917 Paratypes 2 adult
 26.-29.8.1951
 Tigrovaja Padj, Mandschurei, Heilongjiang, China, Asia
HYM 2004/912 Paratype 1 adult female
 10.-14.9.1953
 Gaolinzsa, Mandschurei, Heilongjiang, China, Asia

modestum, Eciton (Acamatus)

Borgmeier, 1933

Current Classification: Synonym of ***Neivamyrmex modestus* (Borgmeier, 1933)**

Borgmeier, 1933: Arch. Esc. Sup. Agric. Med. Vet. 10 (2): 165

Borgmeier, 1953: Stud. Ent. 2: 5 [Neivamyrmex]

HYM 2004/715-724 Paratypes 10 adult
HYM 2004/752-787 Paratypes 36 adult
HYM 2004/801-812 Paratypes 12 adult

Mendes, E.d.Rio. - Brasilien - 1933. --- Paratype ! - Reichensperger --- E.(Acamatus) modestum Borgm. --- bei Atta September 1933

Mendes, Rio de Janeiro, Brazil, America, South

43°43'29" W 22°31'34" S

nero, Labidus

Borgmeier, 1955

Borgmeier, 1955: Stud. Ent. 3: 127

HYM 2004/909 State of Type unclear 1 adult

Itatiaya - 9.XI.31 - J.F.Zikan --- E. nero Santschi [auf der Rückseite] det Borgmeier 193... --- Paratypus Borg. vid. --- L. nero Santschi

9.11.1931

Itatiaya (= Itatiaia), Rio de Janeiro, Brazil, America, South

44°34'00" W 22°30'00" S

nigricoxis, Pimpla

Ulbricht, 1910

Current Classification: Synonym of ***Endromopoda nigricoxis* (Ulbricht, 1910)**

Ulbricht, 1910: Mitt. Ver. Naturk. Krefeld: 7

Fitton, Shaw and Gauld, 1988: Handbook British Insects 7: 1-110 [Endromopoda]

HYM 2004/109 Holotype 1 adult female

Krefeld - 6. - Forstwald - Ulbricht --- *Pimpla nigricoxis* Ulb. - weiblich - Ulbr. det. --- Type --- weiblich Holotypus ?
 - *Pimpla detrita* Hlgr. var. *melanopyga* Ulbr. - M. Sorg 1982 --- Holotypus --- *Pimpla detrita* Hlgr. var. *ulbrichtiana*
 Strand - weiblich - Horstm. 1995

Krefeld, Nordrhein-Westfalen, Germany, Europe

06°34'00" O 51°19'59" N

oncocephalum, Lasioglossum (Evylaeus)

Ebmer, 1996

Ebmer, 1996: Linzer biol. Beitr. 28(1):241

HYM 2004/584 Holotype 1 adult female

Kuatun (2300m), 27,40 n.Br., 117,40 ö.L., J.Klapperich, 5.5.1938 (Fukien) --- Holotypus --- LASIOGLOSSUM Evylaeus oncocephalum n.sp., det A.W.Ebmer 1995

Kuatun, Wuyi Shan (mts.), Fujian, China, Asia

117°40'00" O 27°40'00" N

orthonotum, Eciton (Acamatus)

Borgmeier, 1933

Current Classification: Synonym of ***Neivamyrmex orthonotus (Borgmeier, 1933)***

Borgmeier, 1933: Arch. Esc. Sup. Agric. Med. Vet. 10 (2): 165

Borgmeier, 1953: Stud. Ent. 2: 5 [Neivamyrmex]

HYM 2004/738-751 **Paratypes** 14 adult

Mendes, E.d.Rio. - Brasilien - 1933. --- Paratype ! - Reichensperger --- E.(Acamatus) orthonotum Borgm.

September 1933

Mendes, Rio de Janeiro, Brazil, America, South

43°43'29" W 22°31'34" S

pedissequa, Notoxopria

Borgmeier, 1939

Current Classification: Synonym of ***Notoxoides pedissequa (Borgmeier, 1939)***

Borgmeier, 1939b: Rev. Ent. 10(3): 538

Masner, 1977: Can Ent. 109: 34 [Notoxoides]

HYM 2004/844-845 **Paratypes** 2 adult

Campinas, Goyas - Schwarzmaier [unterseits handschriftlich] 686 - E. pseudops - 4.II.36. --- Cotype --- Notoxopria

pedissequa Borgm. - det. Borgmeier --- Ac. pseudops

Campinas, Goias, Brazil, America, South

47°19'00" W 11°33'00" S

penicillata, Neivapria

Borgmeier, 1939

Borgmeier, 1939b: Rev. Ent. 10(3): 544

HYM 2004/701 **Paratype** 1 adult

Campinas, Goyas --- 20.2.36 --- minensis --- Cotypus --- Neivapria penicillata Borgm. --- det. Borgmeier ---

Neivamyrmex minensis Borg.

20.2.1936

Campinas, Goias, Brazil, America, South

47°19'00" W 11°33'00" S

planiventris, Discoelius

Giordani Soika, 1971

Giordani Soika, 1971: Boll. Soc. ent. ital. 103: 68

HYM 2004/78 **Holotype** 1 adult male

Mandschurei --- Charbin, 19.7.52 --- V. Alin leg., vend. --- Eing.Nr.13, 1952 --- Holotypus --- Discoelius planiventris

--- AGS.

19.7.1952

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia

126°39'00" O 45°45'00" N

plurimaculata, Antepipona

Giordani Soika, 1971

Giordani Soika, 1971: Boll. Soc. ent. ital. 103: 69

HYM 2004/79 **Holotype** 1 adult female

Mandschurei --- Charbin, 2.-8.8.54 --- V. Alin leg., vend. --- Eing.Nr.29, 1954 --- Holotypus --- Antepipona ---

plurimaculata --- AGS.

2.-8.8.1954

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia

126°39'00" O 45°45'00" N

HYM 2004/80 **Allotype** 1 adult male

11.7.1954

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia

126°39'00" O 45°45'00" N

HYM 2004/81 **Paratype** 1 adult female

2.-8.8.1954

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
126°39'00" O 45°45'00" N

postangustatum, *Eciton* (*Acamatus*)

Borgmeier, 1934

Current Classification: Synonym of *Neivamyrmex postangustatus* (Borgmeier, 1934)

Borgmeier, 1934: Arch. Instit. Biol. Vegetal 1(2): 94
Borgmeier, 1953: Stud. Ent. 2: 5 [Neivamyrmex]

HYM 2004/788 **Paratype** 1 adult
Paramaribo - Brasil - Borgmeier 5446 --- postangustatum - Cotypen 5446 - det. - Paramaribo --- Paratypus ---
Eciton (Acam.) postangustatum Borgm. --- A. Reichensperger
Paramaribo, Paramaribo, Suriname, America, South
55°10'00" W 05°49'59" N

pronotalis, *Philolestes*

Borgmeier, 1939

Current Classification: Synonym of *Notoxoides pronotalis* (Borgmeier, 1939)

Borgmeier, 1939b: Rev. Ent. 10(3): 536
Masner, 1977: Can Ent. 109: 34 [Notoxoides]

HYM 2004/699 **Paratype** 1 adult
Campinas, Goyas --- Schwarzmaier --- E. praedator 3744 --- E. praedator --- Cotypus --- Philolestes pronotalis Borgm. ---
det. Borgmeier
1928-1938
Campinas, Goias, Brazil, America, South
47°19'00" W 11°33'00" S

punctipleuris, *Campoplex*

Horstmann, 1980

Horstmann, 1980: Mitt. münch. ent. Ges. 69: 120

HYM 2005/400 **Paratype** 1 adult male
Malans 34 - Schweiz - 26.6.71 = VII --- ex - Coleophora - serratella --- Paratypus male - Campoplex - punctipleuris -
Horstm. 1978 ---
26.6.1971
Malans, Aargau, Switzerland, Europe
09°34'00' W 46°58'00" N

HYM 2005/401 **Paratype** 1 adult female
7.7.1969
Rühle, Niedersachsen, Germany, Europe
07°15'00' W 52°40'00" N

HYM 2005/402 **Paratype** 1 adult female
1970
Goldelund, Schleswig-Holstein, Germany, Europe
09°06'00' W 54°41'00" N

HYM 2005/403 **Paratype** 1 adult female
July 1969
Hottingen, Schwarzwald, Baden-Württemberg, Germany, Europe
08°00'00' W 47°38'00" N

rothi, *Cerceris*

Giner Mari, 1942

Giner Mari, 1942: Eos, Madr. 18: 132

HYM 2004/10 **Holotype** 1 adult female
Kuatun (2300 m) 27,40n.Br. --- 117,40ö.L. J.Klapperich --- 5.10.1938 (Fukien) --- female --- *Cerceris rothi* Giner
female --- det. Giner Mari --- TYPUS
5.10.1938
Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
117°40'00" O 27°40'00" N

rufifrons, *Rhexidermus*

Aerts, 1957

Current Classification: Synonym of *Herpestomus arridens* (Gravenhorst, 1829)

Aerts, 1957: Decheniana 109 (2): 150

Horstmann, 1986: NachrBl. Bayer. Ent. 36(4): 100-106 [syn. of *Herpestomus arridens*]

HYM 2004/100 **Holotype** 1 adult female
 Imhausen --- 15.3.48 Sieg --- Rhexidermus Fö. rufifrons A. --- weiblich --- Holotypus -- Rhexidermus rufifrons
 Aerts --- weiblich --- Horstm. 1985
 15.3.1948
 Imhausen, Nordrhein-Westfalen, Germany, Europe
 07°37'00" O 50°46'59" N

sakagamii, *Lasioglossum* (*Evylaeus*)

Ebmer, 1978

Ebmer, 1978: Bonn. zool. Beitr. 29(1-3): 207

HYM 2004/302 **Holotype** 1 adult female
 Mandschurei Charbin, 7.1952, V.Alin leg., vend., Eing.Nr.6, 1953 --- Holotypus --- LASIOGLOSSUM Evylaeus
 sakagamii n.sp., det. A.W.Ebmer 1976
 7.1952
 Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N

HYM 2004/292 **Allotype** 1 adult male
 6.1952
 Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N

HYM 2004/286 **Paratype** 1 adult
 20.5.1951

HYM 2004/287 **Paratype** 1 adult
 31.5.1951

HYM 2004/288 **Paratype** 1 adult
 10.6.1951

HYM 2004/289 **Paratype** 1 adult
 11.7.1951

HYM 2004/290 **Paratype** 1 adult
 17.7.1951

HYM 2004/291 **Paratype** 1 adult
 10.8.1951

HYM 2004/293-301 **Paratypes** 9 adult
 6.1952

HYM 2004/303 **Paratype** 1 adult female
 7.1952

HYM 2004/304 **Paratype** 1 adult male
 7.1952

HYM 2004/305-553 **Paratypes** 249 adult
 7.1952

HYM 2004/554-555 **Paratypes** 2 adult
 19.7.1952

HYM 2004/556-557 **Paratypes** 2 adult
 27.7.1952

HYM 2004/558-562 **Paratypes** 5 adult
 4.-10.8.1952

HYM 2004/563 **Paratype** 1 adult
 2.-19.6.1953

HYM 2004/564-567 **Paratypes** 4 adult
 2.5.1954

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N

HYM 2004/568 **Paratype** 1 adult

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

22.6.1952

Erzendianzy, Mandschurei, Heilongjiang, China, Asia

HYM 2004/569-573 **Paratypes** 5 adult

8.7.1951

Tschen, Mandschurei, Heilongjiang, China, Asia

samnitica, *Myrmica*

Mei, 1987

Mei, 1987: *Fragm. ent.* 19(2): 457

HYM 2004/63-64 **Paratypes** 2 adult

ABRUZZO, Ovindoli (AQ) --- M. Magnola --- 15.VIII.1983 1400 m --- leg. M. Mei, nido A --- PARATYPUS ---

Myrmica samnitica --- det. M. Mei 1984

15.8.1983

Magnola, Monte della (mts.), Abruzzo, Italy, Europe

13°26'59" O 42°07'59" N

satschauense mandschuricum, *Lasioglossum (Lasioglossum)* **Ebmer, 1978**

Ebmer, 1978: *Bonn. zool. Beitr.* 29(1-3): 199

HYM 2004/59 **Holotype** 1 adult female

Mandschurei Charbin, 2.-19.6.53, V.Alin leg., vend., Eing.Nr.25, 1953 --- Holotypus --- LASIOGLOSSUM *Lasioglossum satschauense*, ssp. *mandschuricum* n.ssp., det. A.W.Ebmer 1976

2.-19.6.1953

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia

126°39'00" O 45°45'00" N

HYM 2004/56 **Allotype** 1 adult male

7.1952

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia

126°39'00" O 45°45'00" N

HYM 2004/52 **Paratype** 1 adult male

12.7.1951

HYM 2004/53 **Paratype** 1 adult female

6.1952

HYM 2004/54,55 **Paratypes** 2 adult male

7.1952

HYM 2004/57,58 **Paratypes** 2 adult male

4.-10.8.1952

HYM 2004/60 **Paratype** 1 adult male

19.-24.7.1953

Charbin (= Harbin), Mandschurei, Heilongjiang, China, Asia

126°39'00" O 45°45'00" N

HYM 2004/61,62 **Paratypes** 2 adult male

7.8.1951

Chulan (= Hulan), Heilongjiang, China, Asia

126°35'59" O 45°59'00" N

schneideri, *Teleutomyrmex*

Kutter, 1950

Kutter, 1950: *Mitt. schweiz. ent. Gesell.* 23(2): 82

HYM 2004/825-827 **Paratypes** 3 adult

b. Tetram Caelfs. - 2000m - Stumpfen ded. --- Paratypus --- *Teleutomyrmex schneideri* Kutt. - Saas-Fee 1950 --- A. Reichensperger

25.7.1949

Saas-Fee, Valais, Switzerland, Europe

7°55'00" O 46°07'00" N

schwarzmaieri, Asolenopsia

Borgmeieri, 1939

Borgmeier, 1939b: Rev. Ent. 10(3): 542

HYM 2004/828-829 Syntypes 2 adult

[durchgestrichen] Campinas [handschriftlich] Lages, Goyas - Schwarzmaier - [unterseits handschriftlich] 28.1.34 - E. dulcius --- Cotypus --- Asolenopsia schwarzmaieri Borg. - det. Borgmeier --- Ac. dulcius

28.1.1934

Campinas, Goias, Brazil, America, South

47°19'00" W 11°33'00" S

signifer, Pyrobombus

Tkalcu, 1989

Current Classification: Synonym of ***Bombus (Pyrobombus) luteipes Richards, 1934***

Tkalcu, 1989: Acta ent. bohemoslov. 86: 52

Williams, 1998: Bull. Nat. hist. Mus. 67 [syn. of *Bombus (Pyrobombus) luteipes*]

HYM 2004/593 Paratype 1 adult female

British Bootan Padong, L. Durel 1918 --- Paratypus, *Pyrobombus* (s.str.) *signifer* Tk. Tkalcu det. 1918

Padong, British Bootan, Bhutan, Asia

spatulatum, Eciton (Acamatus)

Borgmeier, 1939

Current Classification: Synonym of ***Neivamyrmex spatulatum (Borgmeier, 1939)***

Borgmeier, 1939a: Rev. Ent. 10(2): 417

Borgmeier, 1953: Stud. Ent. 2: 5 [*Neivamyrmex*]

HYM 2004/814-816 Paratypes 3 adult

Hamburg-Farm - Costa Rica - Nevermann - 25.X. - 13 --- 25. XI. 35 - A. Reichensperger --- Paratype ! Reichensperger --- E. *Acam. spatulatum* Borgm. 39 --- *Neivam. spatulatus* Borgm.

25.11.1935

Hamburg-Farm, Costa Rica, America, South

splendens, Mimopria

Borgmeier, 1939

Borgmeier, 1939b: Rev. Ent. 10(3): 534

HYM 2004/700 Paratype 1 adult

Campinas, Goyas --- Schwarzmaier --- Trindade --- E. *diana* 25.9.36 --- Ac. *diana* --- Cotypus --- *Mimopria splendens* Borgm. --- det. Borgmeier --- *Neivamyrm. diana* Forel

26.9.1936

Campinas, Goias, Brazil, America, South

47°19'00" W 11°33'00" S

spinicollis, Cerceris

Giner Mari, 1942

Current Classification: Synonym of ***Cerceris pulchra variaesimilis Cameron 1890***

Giner Mari, 1942: Eos, Madr. 18: 126

Tsuneki, 1968: Etizenia 29: 21 [Syn. of *Cerceris variaesimilis*]

Krombein, 1981: Biosystematic studies of Ceylonese wasps: 43 [new status: *Cerceris pulchra variaesimilis*]

HYM 2004/19 Syntype 1 adult male

Shaowu - Fukien --- (500 m) J. Klapperich --- 19.5.1937 --- male --- *Cerceris spinicollis* Giner --- male --- det. Giner Mari --- TYPUS

19.5.1937

Shaowu, Wuyi Shan (mts.), Fujian, China, Asia

117°30'00" O 27°17'59" N

stoeckleini, *Cerceris*

Giner Mari, 1942

Giner Mari, 1942: Eos, Madr. 18: 123

HYM 2004/13 **Syntype** 1 adult male
 Shaowu - Fukien --- (500 m) J. Klapperich --- 1.6.1937 --- male --- *Cerceris stoeckleini* Giner --- male --- det. Giner
 Mari --- TYPUS
 1.6.1937
 Shaowu, Wuyi Shan (mts.), Fujian, China, Asia
 117°30'00" O 27°17'59" N

HYM 2004/14 **Syntype** 1 adult female
 Kwangtseh - Fukien --- J. Klapperich --- 8.9.1937 --- female --- *Cerceris stoeckleini* Giner --- female --- det. Giner
 Mari --- TYPUS
 8.9.1937
 Kwangtseh (= Hangchuan), Wuyi Shan (mts.), Fujian, China, Asia
 117°24'00" O 27°30'00" N

tajushanensis, *Bombus (Senexibombus)*

Pittioni, 1949

Current Classification: Synonym of ***Bombus (Senexibombus) kulingensis* Cockerell, 1917**

Pittioni, 1949: Eos, Madr. 25: 244

Williams, 1998: Bull. Nat. Hist. Mus. Entomol. Ser. 67 [syn. of *Bombus (Senexibombus) kulingensis*]

HYM 2004/646 **Paratype** 1 adult female
 Kuatun (2300 m), 27,40 n.Br., 117,40 ö.L., J.Klapperich, 6.4.1938 --- SB *tajushanensis* Pitt., det. Pittioni ---
 PARATYPE --- *Senexibombus bicolor. kulingensis* (Cockerell), Tkalcu det.
 6.4.1938
 Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
 117°40'00" O 27°40'00" N

HYM 2004/647 **Paratype** 1 adult female
 30.5.1938
 Kuatun, Wuyi Shan (mts.), Fujian, China, Asia
 117°40'00" O 27°40'00" N

tricolor, *Diphyus*

Kriechbaumer, 1890

Kriechbaumer, 1890: Ent. Nachr. 16(12): 181-185

HYM 2004/83 **Allotype** 1 adult male
 Köln Honr. --- Aerts 23.8.42 --- *Diphyus* --- *tricolor* --- male Kriechb. --- det. G. Heinrich --- Allotypus
 23.8.1942
 Honrath (Lohmar), Nordrhein-Westfalen, Germany, Europe
 07°15'00" O 50°54'00" N

tumulorum higashi, *Halictus (Seladonia)*

Sakagami & Ebmer, 1979

Sakagami & Ebmer, 1979: Kontyu 47(4): 543

HYM 2004/20 **Paratype** 1 adult female
 Mandschuri Charbin, 2.5.1954, V.Alin leg., vend., Eing.Nr.22, 1954 --- Paratypus --- HALICTUS *Seladonia tumulorum*
 higashi SAK. et Eb., det A.W.Ebmer 1979 - female
 2.5.1954
 Charbin (= Harbin), Mandschuri, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N

HYM 2004/21-23 **Paratypes** 3 adult female
 31.5.1951
 Charbin (= Harbin), Mandschuri, Heilongjiang, China, Asia
 126°39'00" O 45°45'00" N

HYM 2004/24-30 **Paratypes** 7 adult male
 24.8.1954

Insect Types in the ZFMK Collection, Bonn: Hymenoptera

Erdaocheilinche (= Erdaohezi), Heilongjiang, China, Asia

129°37'59" O 45°07'00" N

HYM 2004/31 **Paratype** 1 adult female

HYM 2004/32-4 **Paratypes** 12 adult male

26.-29.8.1951

Tigrovaja Padj, Mandschurei, Heilongjiang, China, Asia

vagans dispar, *Eciton*

Borgmeier, 1955

Borgmeier, 1955: Stud. Ent. 3: 244

HYM 2004/860-866 **Paratypes** 7 adult

Sta. Cruz - Rio de Janeiro - 5.8.35 - M. Torres Nest. --- *Eciton vagans* Ol. det. Borgmeier 1936 --- *Paratypus* --- *Ec. vagans dispar* Borgmeier

5.8.1935

Santa Cruz, Distrito Federal, Brazil, America, South

vernalis, *Dusona*

Hinz, 1957

Current Classification: Synonym of *Dusona bellipes* (Holmgren, 1872)

Hinz, 1957: Dt. Ent. Z. 4: 88

Hinz, 1963: Beitr. Ent. 13: 335-344 [syn. of *Dusona bellipes*]

HYM 2004/108 **Allotype** 1 adult male

Köln K.F. --- an *Picea* --- Aerts --- 14.4.43 --- *Campoplex pugillator* Fö. --- männlich --- *Dusona vernalis* --- männlich

--- Allotypus --- 1955 --- R.Hinz

14.4.1943

Königsforst Köln, Nordrhein-Westfalen, Germany, Europe

07°07'59" O 50°56'00" N

References

- AERTS, W. (1953): Hymenopteren, die an der Fichte (*Picea excelsa* Link) beobachtet wurden. Nachrichten des Naturwissenschaftlichen Museums der Stadt Aschaffenburg **40**:1-41.
- AERTS, W. (1957): Die Schlupfwespen- (Ichneumoniden-) Fauna des Rheinlands. Decheniana **109(2)**:137-212.
- ASKEW, R.R., AND LAMPE, K.H. (1998): Species of *Pteromalidae* (Hym., Chalcidoidea) parasitic in galls of *Cecidomyiidae* (Dipt.) on *Fagus* leaves. Entomologist's Monthly Magazine **134**:54-56.
- AUBERT, J.F. (1968): Révision des travaux concernant les Ichneumonides de France et 6e supplément au catalogue de Gaulle (100 espèces nouvelles pour la faune française). Bulletin mensuel de la Société Linnéenne de Lyon **37**:133-144.
- BEAUMONT, J. DE (1963): Les *Ammophiles* paléarctiques du groupe de *nasuta*. (Hym. Sphecid). Revue Suisse Zoologie **70**:1-24.
- BLUETHGEN, P. (1953): Die Eumeniden-Gattung *Allodynerus* Blüthg. 1938 (Hym., Vespidae). Zoologischer Anzeiger **150**:50-59.
- BOHART, R.M., AND A.S. MENKE (1976) Sphecids Wasps of the World. A generic revision. University of California Press, Berkeley, Los Angeles, London.
- BOLTON, B. (2003): Synopsis and Classification of *Formicidae*. Memoirs of the American Entomological Institute **71**:1-370.
- BORGMEIER, T. (1933): Sobre algumas especies de formigas do genero *Eciton* Latreille (Hym. Formicidae). Archivos da Escola Superior da Agricultura e Medicina Veterinaria **10(2)**:161-168.
- BORGMEIER, T. (1934): Contribuição para o conhecimento da fauna mirmecologica dos cafezais de Paramaribo, Guiana Holandesa (Hym. Formicidae). Archivos de Instituto de Biologia Vegetal **1(2)**:93-111.
- BORGMEIER, T. (1939a): Nova contribuição para o conhecimento das formigas neotropicas. Revista de Entomologia **10(2)**:403-428.

- BORGMEIER, T. (1939b): Sobre alguns Diapriídeos myrmecófilos, principalmente do Brasil (*Hym. Diapriidae*). Revista de Entomologia **10(3)**:530-545.
- BORGMEIER, T. (1953): Vorarbeiten zu einer Revision der Neotropischen Wanderameisen. Studia Entomologia **2**:1-51.
- BORGMEIER, T. (1955): Die Wanderameisen der Neotropischen Region. Studia Entomologia **3**:1-720.
- BROWN, P. AND G.B. STRATTON (1963): World List of Scientific Periodicals Published in the Years 1900 – 1960. London, Butterworths:1-1824.
- BUSCHINGER, A. (1982): *Epimyrma goesswaldi* Menozzi, 1931 = *Epimyrma ravouxi* (André, 1896) – Morphologischer und biologischer Nachweis der Synonymie. Zoologischer Anzeiger **208**:352-358.
- BUYSSON, R. DU (1900): Contribution aux Chrysidides du globe. Revue d'Entomologie **4(19)**:125-158.
- EBMER, A.W. (1978): Die *Halictidae* der Mandschurei (*Apoidea, Hymenoptera*). Bonner zoologische Beiträge, **29(1-3)**:183-221.
- EBMER, A.W. (1996): Asiatische *Halictidae*, 4. Zwei neue und außergewöhnliche *Lasioglossum carinate-Evylaeus* Arten aus China (*Insecta: Hymenoptera: Apoidea: Halictidae: Halictinae*). Linzer biologische Beiträge **28(1)**:237-246.
- FITTON, M.G., SHAW, M.R. AND I.D. GAULD (1988): Pimpline Ichneumon-flies. *Hymenoptera, Ichneumonidae (Pimplinae)*. Handbook for the Identification of British Insects 7:1-110.
- GINER MARI, J. (1942): *Cerceris orientales*. IV. Algunas nuevas especies de *Cerceris* Latr. procedentes de la China oriental (*Hym. Spheg.*). Eos - Revista Española de Entomología **18**:113-144.
- GIORDANI SOIKA, A. (1971): Notulae Vespilogicae XXIX descrizione di tre nuovi Eumenidi della Manciuia (*Hymenoptera*). Bolletino della Società Entomologica Italiana **103**:68-70.
- HEINRICH, G. (1949): Ichneumoniden des Berchtesgadener Gebietes. Mitteilungen der Münchner Entomologischen Gesellschaft **35-39**:1-101.
- HERATY, J.M. (1994): Classification and Evolution of the *Oraseminae* in the Old World, including Revisions of two closely related genera of *Eucharitinae* (*Hymenoptera: Eucharitidae*). Royal Ontario Museum Life Sciences Contributions 157:1-176.
- HINZ, R. (1957): Zur Systematik und Ökologie der Ichneumoniden I (*Hym.*). Deutsche Entomologische Zeitschrift **4**:86-90.
- HINZ, R. (1963): Über einige Typen der Gattung *Dusona* Cameron (*Hymenoptera: Ichneumonidae*). Beiträge zur Entomologie **13**:335-344.
- HORSTMANN, K. (1980): Neue westpaläarktische Campopleginen-Arten (*Hymenoptera, Ichneumonidae*). Mitteilung der Münchner Entomologischen Gesellschaft **69**:117-132.
- HORSTMANN, K. (1986): Revision der von Aerts, Dominique, Kieffer und Verhoeff beschriebenen Ichneumoniden-Taxa, mit einer Bearbeitung von *Diaglyptellana* Horstmann (*Hymenoptera, Ichneumonidae*). Nachrichtenblatt der Bayrischen Entomologen **36(4)**:100-106.
- HORSTMANN, K. (1997): Über infraspezifische Namen von Formen und Varietäten der Autoren Kriechbaumer, Athimus, Pfankuch, Ulbricht und Hedwig in der Familie *Ichneumonidae* (*Hymenoptera*). Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen **49**:47-59.
- KIMSEY, L.S. AND R.M. BOHART (1990): The Chrysidid Wasps of the World. Oxford Science Publication, 1-652.
- KRIECHBAUMER, DR. (1890): Ichneumoniden-Studien. Entomologische Nachrichten, **16(12)**:181-185.
- KROMBEIN, K.V. (1981): Biosystematic studies of Ceylonese wasps, VIII: a monograph of the *Philanthidae* (*Hymenoptera: Sphecoidea*). Smithsonian Contributions to Zoology No. **343(I-III)**:1-75.
- KUHLMANN, M. (2000): Katalog der paläarktischen Arten der Bienengattung *Colletes* Latr., mit Lectotypenfestlegungen, neuer Synonymie und der Beschreibung von zwei neuen Arten (*Hymenoptera: Apidae: Colletinae*). Linzer biologische Beiträge **32(1)**:155-193.
- KUTTER, H. (1950): Über eine neue, extrem parasitische Ameise. Mitteilungen der schweizerischen entomologischen Gesellschaft **23(2)**:81-94.
- LELEJ, A.S. (2002): Catalogue of the *Mutillidae* (*Hymenoptera*) of the Palearctic region. Russian Academy of Sciences, Far Eastern Branch, Institute of Biology and Soil Science, Vladivostok Dalnauka:1-172.

- MASNER, L. (1977): A new genus of ecitophilous diapiiid wasps of Arizona (*Hymenoptera: Proctotrupoidea: Diapriidae*). The Canadian Entomologist **109**:33-36.
- MEI, M. (1987): *Myrmica samnitica* n.sp.: una nuova formica parrasita dell'Appennino Abruzzese (*Hymenoptera, Formicidae*). Fragmenta Entomologica **19(2)**:457-469.
- MENOZZI, C. (1930): Die Biologie einer neuen *Epimyrma*-Art aus dem mittleren Maingebiet. In Gösswald, K.: Zeitschrift für Wissenschaftliche Zoologie **136**:464-484.
- NIEHUIS, O. (2000): The European species of the *Chrysis ignata* group: revision of the *Chrysis angustula* aggregate (*Hymenoptera, Chrysidae*). Mitteilungen aus dem Museum für Naturkunde in Berlin, Deutsche entomologische Zeitung **47(2000)2**:181-201.
- PETERSEN, B. (1988): The Palearctic *Mutillidae* of I. C. Fabricius and some related material (*Insecta, Hymenoptera, Aculeata*). Steenstrupia **14(6)**:129-224.
- PITTIONI, B. (1949): Beiträge zur Kenntnis der Bienenfauna SO-Chinas. Die Hummeln und Schmarotzerhummeln der Ausbeute J. Klapperich (1937/38). (*Hym., Apoidea, Bombini*). Eos – Revista Espanola de Entomologia **25**:241-284.
- REICHENSPERGER, A. (1913): Zur Kenntnis von Myrmecophilen aus Abessinien. Zoologische Jahrbücher, Abteilung für Systematik, Geographie und Biologie der Tiere **35(2)**:185-218.
- SAKAGAMI, S.F. AND A.W.EBMER (1979): *Halictus (Seladonia) tumulorum higashi* ssp.nov. from the Northeastern Palearctics (*Hymenoptera: Apoidea; Halictidae*). Kontyû **47(4)**:543-549.
- SANTSCHI, F. (1908): Nouvelles Fourmis de l'Afrique du Nord (Égypte, Canaries, Tunisie). Annales de la Société Entomologique de France **(3)**:517-534.
- SANTSCHI, F. (1923): Pheidole et quelques autres Fourmis Neotropiques. Annales de la Société Entomologique de Belgique **63**:45-69.
- SANTSCHI, F. (1924): Nouvelles fourmis bresilienns. Annales de la Société Entomologique de Belgique **64**:5-20.
- SANTSCHI, F. (1930): Quelques Fourmis de Cuba et du Brésil. Extrait du Bulletin de la Société Royale Entomologique d'Égypte **2-3**:75-83.
- SAWONIEWICZ, J. (1988): Revision of some type-specimens of European *Ichneumonidae* (*Hymenoptera*), 3. Annales Zoologici (Warsaw) **41**:481-190.
- SAWONIEWICZ, J. AND J.C. LUHMAN (1992): Revision of European species of the subtribe *Endaseine*, III Genus: *Endasys* Foerster, 1868 (*Hymenoptera – Ichneumonidae*). Entomofauna **13**:1-96.
- STRAND, E. (1918): Über W. Horns litauische entomologische Kriegsausbeute 1916 (besonders *Trichoptera, Ephemeroptera, Lepidoptera* und *Hymenoptera*). Schluß *Hymenoptera*. Entomologische Mitteilungen **7**:149-160.
- TKALCU, B. (1989): Neue Taxa asiatischer Hummeln (*Hymenoptera, Apoidea*). Acta entomologica bohemoslovaca **86**:39-60.
- TSUNEKI, K. (1968): *Cerceris* from the western Pacific areas (*Hymenoptera, Sphecidae*). Etizenia **29**:1-36.
- ULBRICHT, A. (1909): Ichneumoniden der Umgegend. Mitteilungen des Vereins für Naturkunde zu Krefeld:1-40.
- ULBRICHT, A. (1910): Ichneumoniden der Umgegend Krefelds. I. Nachtrag. Mitteilungen des Vereins für Naturkunde zu Krefeld:1-19.
- WASMAN, E. (1915): *Anergatides kohli*, eine neue arbeitlose Schmarotzerameise vom oberen Kongo (*Hym. Form.*). Entomologische Mitteilungen **4(10/12)**:279-188.
- WILLIAMS, P.H. 1998. An annotated checklist of bumble bees with an analysis of patterns of description (*Hymenoptera: Apidae, Bombini*). Bulletin of The Natural History Museum Entomology Series **67**:79-152.
- WILSON, E.O. (1984): Tropical social parasites in the ant genus *Pheidole*, with an analysis of the anatomical parasitic syndrome. Insects Sociaux **31**:316-334.
- YU, D.S. AND K. HORSTMANN (1997): A catalogue of world *Ichneumonidae* (*Hymenoptera*) Part 1. Memoirs of the American Entomological Institute **58(1)**:1-763.