

Wirkner, C.S., Stagl, V. & Turk, N.:
Type specimens of the Chordeumatida in the Natural History Museum
Vienna (Diplopoda). – Kataloge der wissenschaftlichen Sammlungen des
Naturhistorischen Museums in Wien, Band 16: Myriapoda, Heft 1.
Wien: Verlag NHMW Juni 2002. 31 S.
ISBN 3-900 275-93-9



Für den Inhalt ist der Autor verantwortlich.
Alle Rechte vorbehalten.

Copyright 2002 by Naturhistorisches Museum Wien, Austria.

ISBN 3-900 275-93-9

Eigentümer, Herausgeber und Verleger: Naturhistorisches Museum Wien, Austria.

Druck: gugler print & media.

Type specimens of the Chordeumatida (Diplopoda) in the Natural History Museum Vienna

Christian S. Wirkner¹, Verena Stagl², Nadia Turk³

Abstract

The present type catalogue lists the presumed type series of Chordeumatida (Diplopoda) housed in the Natural History Museum in Vienna (NHMW). The species list in alphabetical order gives information on the recent nomenclatorial status, the category of the types, the condition, the sex and the number of specimens as well as the type locality of the respective series. This type catalogue aims to document the valuable collection of Chordeumatida and to make accessible important information for future taxonomic and systematic studies on Diplopoda.

Zusammenfassung

Der vorliegende Typenkatalog listet die in der Diplopodensammlung des Naturhistorischen Museums in Wien (NHMW) vorhandenen Typenserien der Chordeumatida auf. Die Liste der Arten in alphabetischer Reihenfolge beinhaltet Informationen über den aktuellen Stand der Nomenklatur, die Typenkategorie, Zustand, Geschlecht und Menge, sowie den Locus typicus. Mit dem Typenkatalog soll diese wichtige Sammlung des NHMW dokumentiert und für weiterführende taxonomische und systematische Bearbeitungen der Wissenschaft zugänglich gemacht werden.

Key words: Chordeumatida, type list, Natural History Museum Vienna.

Introduction

The myriapod collection of the Natural History Museum in Vienna (NHMW) is one of the largest and most important in the world. **Carl Graf Attems** – one of the leading myriapod specialists – was active there from 1894 until his death in 1952 (STAGL 2001).

The **Chordeumatida** collection is relatively small, but rich in type series. Among about 200 different species, we can identify approximately 100 series as type material. Originally the collection was composed of two parts, the Museum's collection and Attems' private one, with two different catalogues. Nowadays both collections were merged. The majority of specimens in the Attems collection was collected by himself, others he obtained from fellow collectors.

Within the Museum's collection the so called "acquisition date" is often quoted and includes information about the collector and the donator. In the books of acquisition the stocks are listed in chronological order indicated by Roman numerals and single series in Arabic numerals. Listed are all series that were included in the collection by donation, purchase or by exchange.

¹ Christian S. Wirkner, AG Vergleichende Zoologie, Institut für Biologie, Humboldt Universität zu Berlin, Phillipstrasse 13, D-10115 Berlin.

² Verena Stagl und Nadia Turk, Naturhistorisches Museum Wien, 3. Zoologische Abteilung, Burgring 7, A-1010 Wien, Österreich.

The NHMW acquired a large collection of **Robert Latzel** (1845-1919). In 1884, he sold 108 series, with 277 specimens. In 1919, the main part (420 series and 7000 specimens) – his legacy – was donated to the Museum. Generally, Latzel did not designate type series, nor did he specify the type localities. Furthermore, in many cases he merely summarized the localities, such as "Österreichische Küstenlande, Kärnten, Niederösterreich". Detailed information on the localities, however, can be found only in the book of acquisition of 1884, written with red ink by Latzel himself (STAGL 2001, STAGL & MILDNER 2001).

Karl Wilhelm Verhoeff (1867-1945) sold parts of his collection to the NHMW as well as to various other museums. Acquisitions of type material from him took place in 1896, 1897 (mediated by Theodor Adensamer, curator of the Crustacea-, Arachnoidea- and Myriapoda-collection), 1899, 1908, 1909, and 1940. Furthermore, in 1935 the Museum obtained numerous myriapods from him by exchange.

Attems had contact with other myriapod specialists in Europe, and they exchanged material, mainly type-specimens. Concerning the Chordeumatida we have syntypes from **Henry W. Brolemann** and **Karl Strasser**. In the last years we have obtained type specimens from **Jean-Paul Mauriès** and **Sergey Golovatch**.

Various specialists have worked with the Chordeumatida collection, e.g. K. Strasser, I. Kurnik, K. Thaler, A. Tadler, J.-P. Mauriès, and J. Spelda. Their published results are mentioned in the text at the relevant type series.

Methods

Some of the earlier specialists were not used to designate types of species, such as Attems and Verhoeff. Only in rare cases we could find such specifications on the labels or in the catalogue. Very often no indication can be found in the original description about the number of specimens which were at the authors' disposal. Occasionally Attems wrote the mark "Type" on labels, apparently believing it to be a new species and assigning it a new name. However, he subsequently never described these specimens, and these names are "manuscript names". Difficulties were often encountered in identifying locality specifications. Data are often obscure, sometimes only the local name is known or – especially in the old collection – names are no longer used today and several localities previously belonged to other countries.

The type status of the Museum series had to be carefully verified. Therefore, data were obtained from the books of acquisition, Museum and Attems' catalogues, labels, and the original descriptions. Attems' handwriting on the labels in the single lots and especially in his catalogues is difficult to decipher; see STROUHAL (1961). Concerning the Latzel collection we considered specimens lacking locality specifications (see above) as syntypes.

Since the past few years an inventory of the collection has been kept, all type series have received an inventory number and have been entered into a computer database.

Notes

The species list is arranged alphabetically, subspecies and variations are listed under the species name. The following information is given:

- The original reference of the description.

- The current systematic status with additional references when it has changed recently.
- The family to which the species belongs [according to HOFFMAN (1980)].
- The category of the type, and if uncertain then marked with a "?"; the number and sex of the single specimens and the mode of their preparation. All specimens are preserved in 75% ethanol, parts of them are kept on microslides. Different series are separated by a hyphen (-). Abbreviations: GP = gonopods, Ind. = Individual, indet. = not determined individual, juv = juvenile.
- The type locality. Locality name in English, the original local specification in quotation marks. In brackets the name who collected (coll.) and donated (don.) the specimens, if known.
- The inventory number, and the number of the acquisition in parenthesis.
- Notes if necessary. References to authors who reviewed the type material (rev.).
- References: Attems' references are listed according to numbers assigned in STROUHAL (1961). The original description of species is indicated first with the reference number and second with the page number, separated by a slash (.../...). Verhoeff's references are treated in the same way and were recorded in the list of MAUERMAYER (1962).

The taxonomic position of many species of the Chordeumatida is still doubtful and this fact has led to many discussions. It is hoped that the compilation of this catalogue helps specialists for further studies and supports them clarifying outstanding questions.

The list of type specimens

abietum VERHOEFF

Carniosoma abietum VERHOEFF, 1927 (401/260).

Current status: *Carniosoma verhoeffi* (ATTEMS, 1927) (64/99), see STRASSER (1971b).

Family: Craspedosomatidae

Syntypes: 1 ♀, 1 immature.

Type locality: Slovenia, "Krain, Gottschee" [coll. Verhoeff 10.1926, don. Verhoeff 1940].

Inventory number: 2159

aegonotum ATTEMS

Craspedosoma aegonotum ATTEMS, 1927 (64/91).

Current status: questionable *Craspedosoma slavum* ATTEMS 1929 (73/344). Attems replaced the name *Craspedosoma rawlinsii* sensu VERHOEFF, 1895 nec LEACH, 1814 with *C. slavum* without a new description. In STRASSER (1971a) and FODDAI & al. (1995) we find the synonymy of *Cr. rawlinsii* sensu VERHOEFF, 1895 nec LEACH, 1814, and "? *Cr. aegonotum* Attems, 1927"; in MRŠIĆ (1987b, 1994) the same, but without any question-mark. None of these authors drew the conclusion that *aegonotum* as older synonym could replace the younger name *slavum*.

Family: Craspedosomatidae

Holotype: 1 ♂ (bad condition, only small parts) - 1 microslide: GP.

Type locality: Croatia "Preka Kosa, Berg in der Nähe der Plitvicer Seen"[coll. Attems 02.10.1908].

Inventory number: 2903

alpestre VERHOEFF

Microbrachysoma alpestre VERHOEFF, 1897 (138 /132).

Current status: *Microbrachysoma alpestre* VERHOEFF, 1897

Family: Neoatractosomatidae

Syntype: 1 ♂ (dissected).

Type locality: Bosnia Herzegovina, "Plasa bei Jablanica" [coll. Verhoeff, don. Th. Adensamer].

Inventory number: 2118 (Acquisition: 1897.XXIII.35)

alpivagum VERHOEFF

Heteroporatia alpivagum VERHOEFF, 1897 (133/17).

Current status: *Mastigophorophyllon alpivagum* (VERHOEFF, 1897), see JEEKEL (1971).

Family: Mastigophorophyllidae

Syntypes: 2 ♂♂ (one without GP), 1 ♀ - 2 ♂♂, 2 ♀ anterior parts (14 and 21 segments), 3 ♀ posterior parts (7, 15 and 21 segments), 1 ♀ head + 5 segments, 1 vulva - preparation (Kurnik).

Type locality: Romania, "Siebenbürgen, Cindrell, Zibinsgebirge" [coll. Verhoeff, don. Th. Adensamer].

Inventory number: 2674 (Acquisition 1897.I.3: 1 ♀, 2 ♂♂, 1897.XXIII.13: 5 ♀♀)

Notes: rev. KURNIK (1988). In his catalogue Attems placed this species in the genus *Mastigophorophyllon*.

antrobis ATTEMS

Polyphematia antrobis ATTEMS, 1949 (123/6).

Current status: *Polyphematia moniliformis* (LATZEL, 1884) (p. 194), see STRASSER (1965b) and MRŠIĆ (1987a).

Family: Attemsiidae

Syntypes: 4 ♂♂, 3 ♀♀, 1 ♂ posterior part, 1 anterior part (17 segments), 1 posterior part (8 segments) - 1 microslide: GP, pairs of legs, antennae.

Type locality: Austria, Styria "Johnsbach, Ödelsteinhöhle" [coll. Franz 07.10.1947, don. Franz].

Inventory number: 2317

Notes: rev. STRASSER (1965b).

apenninorum VERHOEFF

Thaumaporatia apenninorum VERHOEFF, 1909 (260/564).

Current status: *Thaumaporatia (Thaumaporatia) apenninorum* VERHOEFF, 1909

Family: Mastigophorophyllidae

Syntypes: 1 ♀, 1 vulva - preparation (Kurnik) 1 ♀, 1 vulva - preparation (Kurnik).

Type locality: Italy, Santa Margherita Ligure [coll. Verhoeff, don. Verhoeff 1935].

Inventory number: 2131 (Acquisition 1908.XIII.)

Notes: rev. KURNIK (1988)

apfelbecki VERHOEFF

Ceratosoma apfelbecki VERHOEFF, 1897 (138/147).

Current status: *Ochogona (Euceratosoma) apfelbecki* (VERHOEFF, 1897), see JEEKEL (1971) and HOFFMAN (1980).

Family: Craspedosomatidae

Syntypes: ?1 ♂, ?1 ♀ - 4 ♀♀ - 2 microslides: GP, pairs of legs.

Type locality: Bosnia, Trebevic (4 ♀♀) [coll. probably Apfelbeck, don. Th. Adensamer/Verhoeff].

Inventory number: 2156 (Acquisition 1897.XXIII.8 - 4 ♀♀; 1899.III.27 1 ♂, 1 ♀)

Notes: The 4 ♀♀ with the date of acquisition 1897 are certainly type specimens, as noted in Attems' catalogue. The type status of the two other specimens (1899) is doubtful, the locality was not specified, and only given as "Bosnia" Verhoeff collected at the same locality in October 1898 (MORITZ & FISCHER 1973).

argentarium ATTEMS

Synischiosoma argentarium ATTEMS, 1927 (64/90).

Current status: *Synischiosoma argentarium* ATTEMS, 1927

Family: Craspedosomatidae

Syntypes: 1 ♂ - 1 ♂, 2 ♀♀, - 2 microslides: GP, pairs of legs.

Type locality: Italy, Toscana, Monte Argentario [coll. don. Holdhaus 1907].

Inventory number: 2335

baldense VERHOEFF

Prionosoma baldense VERHOEFF, 1934 (468/141).

Current status: *Bergamosoma canestrinii* (FEDRIZZI, 1877); according to STRASSER (1973) *P. baldense* is only a "race" of *P. canestrinii*. *Prionosoma* is the synonym of *Bergamosoma*, see HOFFMAN (1980).

Family: Craspedosomatidae

Syntype: 1 ♂.

Type locality: Italy, Monte Baldo [coll. don. Verhoeff 1940].

Inventory number: 2149

banaticum VERHOEFF

Anthroleucosoma banaticum VERHOEFF, 1899 (151/137).

Current status: *Anthroleucosoma banaticum* VERHOEFF, 1899

Family: Anthroleucosomatidae

Syntypes: 1 ♂, 1 ♀, 1 immature.

Type locality: Romania, Banat [coll. Verhoeff 1898, don. Verhoeff].

Inventory number: 2161 (Acquisition 1899.III.11)

berlesei VERHOEFF

Atractosoma (Hapltractosoma) berlesei VERHOEFF, 1900 (173/379).

Current status: *Atractosoma (Hapltractosoma) cecconii* SILVESTRI, 1898, see VERHOEFF (1932) (449/317).

Family: Craspedosomatidae

Syntypes: 1 ♂, 1 ♀.

Type locality: Italy, Toscana, Vallombrosa [coll. don. Verhoeff].

Inventory number: 2150

blechnorum VERHOEFF

Atractosoma (Mesatractosoma) blechnorum VERHOEFF, 1936 (487/370).

Current status: *Atractosoma blechnorum* VERHOEFF, 1936

Family: Craspedosomatidae

Syntype: 1 ♀ (dissected).

Type locality: Italy, Liguria, Spezia [coll. Verhoeff, don. Verhoeff 1940].

Inventory number: 2152

bosniense VERHOEFF

Heteroporatia (Xiphochaetoporatia) bosniense VERHOEFF, 1897 (138/193).

Current status: *Mastigona (Xiphochaetoporatia) bosniensis* (VERHOEFF, 1897), see JEEKEL (1971), HOFFMAN (1980) and KORSÓS (1994).

Family: Mastigophorophyllidae

Syntypes: 5 ♂♂, 5 ♀♀ (1 ♂, 1 ♀ damaged).

Type locality: Bosnia [coll. Verhoeff, spring 1897, don. Verhoeff].

Inventory number: 2122 (Acquisition 1897.XXVII.10)

bosniensis vihorlatica ATTEMS

Heteroporatia bosniensis var. *vihorlatica* ATTEMS, 1899 (13/316).

Current status: *Mastigona (Xiphochaetoporatia) vihorlatica* (ATTEMS, 1899), see JEEKEL (1971) and KORSÓS (1994).

Family: Mastigophorophyllidae

Syntype: 1 Microslide: GP.

Type locality: Slovakia, "Vihorlat, Berg im Zempliner Comit, Ungarn" [coll. Attems 09.1897].

Inventory number: 3330

Notes: rev. MOCK (in litt. 2000)

broelemanni VERHOEFF

Microchordeuma (Chordeumella) broelemanni VERHOEFF, 1897 (138/151).

Current status: *Melogona (Chordeumella) broelemanni* (VERHOEFF, 1897), see HOFFMAN (1980) and KORSÓS (1994).

Family: Chordeumatidae

Syntypes: 5 ♂♂, 7 ♀♀.

Type locality: Bosnia Herzegovina [coll. Verhoeff, don. Th. Adensamer].

Inventory number: 1960 (Acquisition 1897.XXIII.19)

Notes: The locality on the label is not specified (Bosnia) in contrast to the localities given in the original description. Verhoeff sold the specimens in 1897, the same year he described the new species. We assume the specimens are syntypes.

broelemanni banatica VERHOEFF

Microchordeuma (Chordeumella) broelemanni ssp. *banatica* VERHOEFF, 1899 (151/134).

Current status: *Melogona (Chordeumella) broelemanni* (VERHOEFF, 1897), see STRASSER (1969).

Family: Chordeumatidae

Syntypes: 1 ♂, 1 ♀.

Type locality: Romania, Banat [coll. don. Verhoeff].

Inventory number: 1961 (Acquisition 1899.III.21)

brunatense VERHOEFF

Craspedosoma brunatense VERHOEFF, 1910 (263/321).

Current status: *Pyrgocyphosoma brunatense* (VERHOEFF, 1910a), see VERHOEFF (1910b) (264/37).

Family: Craspedosomatidae

Syntypes: 2 ♂♂.

Type locality: Italy, Lombardia, Como "Brunate" [coll. Verhoeff 1907, don. Verhoeff].

Inventory number: 2141 (Acquisition 1908.XIII)

buresschi VERHOEFF

Bulgarosoma buresschi VERHOEFF, 1926 (393/69 first part).

Current status: *Bulgarosoma buresschi* VERHOEFF, 1926

Family: Anthroleucosomatidae

? **Syntype:** 1 ♂.

Type locality: Bulgaria (Attems catalogue), cave in the Balkan mountains (label) [don. Verhoeff].

Inventory number: 2162

Notes: The type status is doubtful. Verhoeff sold this male specimen in 1940. According to the description in 1926 he possessed only 1 mature male.

capito ATTEMS

Trachysoma capito ATTEMS, 1895 (5/194).

Current status: *Trachygona capito* (ATTEMS, 1895), see JEEKEL (1971).

Family: Trachygonoidea

Syntypes: a) 1 ♀ - b) 1 ♀ - c) 1 ♂, 5 ♀♀.

Type locality: a) Austria, Styria "Weizklamm" [coll. Attems 27.07.1893]. -

b) Austria, Styria "Bürgeralpe bei Aflenz" [coll. Attems 12.10.1893]. -

c) Austria, Styria "Platte bei Graz" [coll. Attems 19.05. 1894].

Inventory number: a) 2336 - b) 2337 - c) 2338

Notes: According to Attems' original description only one male was available to him. In figure 21, Plate I, the locality of the illustrated male is "Hochschwab", may be a "synonym" for "Bürgeralpe" But the only male is labeled with "Platte bei Graz" Probably a later mix-up. We do not agree with JEEKEL (1971), who gave the date of validation of the genus *Trachysoma* as ATTEMS 1894. In this publication the name of the genus is only mentioned without any description.

carniolense spiculigerum VERHOEFF

Haploporatia carniolense ssp. *spiculigerum* VERHOEFF, 1929 (421/489).

Current status: *Haploporatia similis* (ATTEMS, 1895), see STRASSER (1965a) and KURNIK (1988).

Family: Mastigophorophyllidae

Syntypes: 2 ♂♂, 3 ♀♀, vulva - preparation (Kurnik).

Type locality: Austria, Styria [coll. Verhoeff 1928, don. Verhoeff 1935].

Inventory number: 3611

Notes: rev. KURNIK (1988).

carpathicum LATZEL

Craspedosoma carpathicum LATZEL, 1884 (1884: 282).

Current status: *Chelogona carpathicum* (LATZEL, 1884)

Family: Craspedosomatidae

Syntypes: 1 ♂ (GP missing), 2 ♀♀, 1 immature.

Type locality: "Galizien und ungarische Tatra" [coll. don Latzel].

Inventory number: 2153 (Acquisition 1884.I.77)

Notes: No locality details are given in the book of acquisition.

cirriferum VERHOEFF

Mastigophorophyllum cirriferum VERHOEFF, 1899 (151/148).

Current status: *Mastigophorophyllum cirriferum* VERHOEFF, 1899.

According to CEUCA (1976) *Paramastigophorophyllum cirriferum* (VERHOEFF, 1899). The latter genus was invalidly proposed without type species, see HOFFMAN (1980).

Family: Mastigophorophyllidae

Syntypes: 1 ♂♂, 1 ♀♀, 1 vulva - preparation (Kurnik).

Type locality: Slovakia, Tatra [coll. don. Verhoeff].

Inventory number: 3612 (Acquisition 1899.III.18)

Notes: rev. KURNIK (1988).

condylocoxa ATTEMS

Atractosoma condylocoxa ATTEMS, 1899 (13/312).

Current status: *Ochogona (Ochogona) condylocoxa* (ATTEMS, 1899), see MRŠIĆ (1994). STRASSER (1971a) placed the species under *Asandalum* ATTEMS, 1949 (124/137) (validated 1959), synonym of *Ochogona (Euceratosoma)*, see HOFFMAN (1980). In STRASSER 1971b it is placed under *Triakontazona* VERHOEFF, 1897, a synonym of *Ochogona (Ochogona)* COOK, 1895, see HOFFMAN (1980).

Family: Craspedosomatidae

Syntypes: 1) 1 ♂, 3 anterior parts (3 segments), 2 posterior parts - 2)

1 ♂, 2 ♀♀ (1 damaged, 1 dissected).

Type locality: 1) Croatia, near Varaždin "Ivančica und Zelesnica" [coll.

Attems 03. 04. 1898, 14. 10. 1898]. - 2) Slovenia, "Styria merid., Dobrava bei Rann" [coll. Attems 12. 10. 1898].

Inventory number: 1) 2321 - 2) 2322

crenulatum LATZEL

Craspedosoma crenulatum LATZEL, 1884 (p. 205).

Current status: *Aporogona crenulata* (LATZEL, 1884) according to COOK 1895.

LATZEL 1884 described the species after 1 immature individual. Only ATTEMS (1895, 5/77) mentioned new material under this name, VERHOEFF (1896, 122/35) only listed this name. The species was not mentioned in later literature. Since the locality data of Latzel's and Attems' specimens were identical with those for *Polyphematia moniliformis* (LATZEL, 1884) (see below), it seems that *Cr. crenulatum* might be the juvenile form of the latter species (GRUBER in litt. 2001).

Family: Attemsiidae?

Holotype: 1 immature (dissected, posterior part missing).

Type locality: Austria, Styria "Hochgebirgsthal" [coll. don. Latzel].

Inventory number: 2164 (Acquisition 1919.)

crinitum ATTEMS*Mastigophorophyllon crinitum* ATTEMS, 1927 (64/82).**Current status:** *Mastigophorophyllon crinitum* ATTEMS, 1927**Family:** Mastigophorophyllidae**Syntypes:** 1 ♂ (dissected, GP missing), 2 ♀♀ - 2 microslides: GP, pairs of legs.**Type locality:** Romania, "Siebenbürgen, Vargyas, vor der Höhle" [coll. Deubel 31. 12. 1900].**Inventory number:** 2311*cyanopidum* ATTEMS*Orobainosoma cyanopidum* ATTEMS 1903 (24/127).**Current status:** *Haasea (Haasea) cyanopida* (ATTEMS, 1903), see JEEKEL (1971) and HOFFMAN (1980).**Family:** Haaseidae**Syntypes:** 1 ♂, 1 ♀, 1 middle part (4 seg.), 1 posterior part (14 seg.).**Type locality:** Italy, Alto Adige "Tyrol"**Inventory number:** 3634*dolinense* VERHOEFF*Attemsia dolinense* VERHOEFF, 1910 (263/309).**Current status:** *Attemsia dolinensis* VERHOEFF, 1910, see MRŠIĆ (1987a).**Family:** Attemsiidae**Syntype:** 1 ♂.**Type locality:** Slovenia, "Krain, Divača (Doline Bukovnik)" [coll. Verhoeff 1907, don. Verhoeff].**Inventory number:** 2135 (Acquisition 1908.XIII.)*doranum* VERHOEFF*Craspedosoma doranum* VERHOEFF, 1932 (447/594).**Current status:** *Craspedosoma doranum* VERHOEFF, 1932**Family:** Craspedosomatidae**Syntypes:** 1 ♂, 1 ♀.**Type locality:** Italy, Piemonte [coll. Verhoeff 1931, don. Verhoeff 1940].**Inventory number:** 2142*elaphron* ATTEMS*Atractosoma elaphron* ATTEMS, 1895 (5/186).**Current status:** *Ochogona (Ochogona) elaphron* (ATTEMS, 1895), see KURNIK (1988).**Family:** Craspedosomatidae**Syntypes:** a) (♂ sign on label): 101 ♂♂, 3 anterior parts, 8 posterior parts - b) (♀ sign on label): 251 ♀♀, 16 anterior parts, 17 posterior parts, 1 head - c) (♂ sign on label): 4 ♂♂ - e) 3 ♂♂, 4 ♀♀, 2 ♂♂ anterior parts, 3 posterior parts, 1 head - f) 2 ♂♂, 1 ♀ anterior part, 1 posterior part - g) 3 ♂♂, 3 ♀♀, 1 ♀ anterior part, 1 posterior part.**Type locality:** Austria; Styria, Lower Austria "a) Leechwald, b) Leechwald, c) Maria Trosterwald etc. e) Wienerwald, f) Leithagebirge, g) Leithagebirge" [coll. Attems].**Inventory number:** 2323

Notes: Attems private collection a) - g), but missing d). The author placed the species under the genus *Ceratosoma* VERHOEFF, 1897 in his catalogue and marked later on *Asandalum* ATTEMS, 1949. Rev. KURNIK (1988).

elaphron latifolium ATTEMS

Ceratosoma elaphron ssp. *latifolium* ATTEMS, 1903 (24/128).

Current status: *Ochogona (Ochogona) elaphron latifolium* (ATTEMS, 1903), see *elaphron*.

Family: Craspedosomatidae

Syntypes: 3 ♂♂, 1 posterior part.

Type locality: Austria, Styria "Göstinger Thal bei Graz" [coll. Attems April 1901).

Inventory number: 3598

euganeorum VERHOEFF

Ceratosoma (Stenalpium) euganeorum VERHOEFF, 1927 (401/264).

Current status: *Ochogona euganeorum* (VERHOEFF, 1927), see FODDAI & al. (1995).

Family: Craspedosomatidae

Syntype: 1 ♀

Type locality: Italy, Veneto [coll. Verhoeff 1925, don. Verhoeff 1940].

Inventory number: 2157

exiguum GOLOVATCH

Hoffmaneuma exiguum GOLOVATCH, 1978 (1978: 1009).

Current status: *Hoffmaneuma exiguum* GOLOVATCH, 1978

Family: Hoffmaneumatidae

Paratypes: 1 ♂, 1 ♀.

Type locality: Russia, Far East, Maritime Prov., Ussuri Refuge (Sample No. 12) [coll. Kurčeva, Mikhaljova 11. 07. 1976, don. Golovatch].

Inventory number: 1941 (Acquisition 1981.XXI.2)

falciferum VERHOEFF

Attemsia falciferum VERHOEFF, 1899 (151/138).

Current status: *Attemsia falcifera* VERHOEFF, 1899 see STRASSER (1971b) and MRŠIĆ (1987a).

Family: AttemsIIDae

Syntypes: 2 ♂♂, 2 ♀♀ (one dissected), vulva - preparation (Kurnik).

Type locality: Croatia, Rijeka "Fiume" [coll. Verhoeff 1898, don. Verhoeff].

Inventory number: 2136 (Acquisition 1899.III.40 and 1908.XIII)

Notes: rev. KURNIK (1988). According to Attems' catalogue and the book of acquisition, Verhoeff donated two individuals (1 ♀, 1 ♂) in 1899, which are most likely syntypes. He sold the two other individuals in 1908, which are probably not syntypes. Unfortunately both samples were put together in one vial.

fastigata ATTEMS

Tianella fastigata ATTEMS, 1904 (27/127).

Current status: *Tianella fastigata* ATTEMS, 1904

Family: Entomobielziidae

Syntype: 1 posterior part (21 segments) - 2 microslides: pairs of legs, GP.
Type locality: Kyrgyzstan, Przhivalskz "Aksu Thal" [coll. Almassy and Stummer 1900].

Inventory number: 2314

Notes: ATTEMS (1904) states that this species has 20 segments, but the dissected specimen has 21 segments.

flagellatum ATTEMS

Acrochordum flagellatum ATTEMS, 1899 (13/306).

Current status: *Acrochordum flagellatum* ATTEMS, 1899 see STRASSER (1971b)

Family: Trachygonidae

Syntypes: 1) 1 ♂, 1 ♀ - 2) 3 ♂♂, 12 ♀♀, 1 posterior part - 3 microslides: anterior part.

Type locality: 1) Slovenia, "Styria merid. Dobrava bei Rann" [coll. Attems 12. 10. 1898]. - 2) Slovenia, "Krain, Cirmitz bei Rann" [coll. Attems 13. 10. 1898].

Inventory number: 1) 2339 - 2) 2417

flavescens LATZEL

Craspedosoma flavescens LATZEL, 1884 (p. 206).

Current status: *Haasea (Haasea) flavescens* (LATZEL, 1884), see JEEKEL (1971), HOFFMAN (1980) and KORSÓS (1994).

Family: Haaseidae

Syntypes: 1 ♂, 2 ♀♀, 9 immatures - 1 ♂, 2 ♀♀, 51 immatures, 26 body parts of different size.

Type locality: Austria, Vienna "Schönbrunn", Upper Austria "Kirchdorf an der Krems."

Inventory number: 2133 (Acquisition 1884.I.85)

Notes: Locality details from book of acquisition.

fontanellum ATTEMS

Craspedosoma fontanellum ATTEMS, 1927 (64/92).

Current status: *Craspedosoma fontanellum* ATTEMS, 1927

Family: Craspedosomatidae

Syntypes: 1 ♂, 1 ♀, 1 anterior part (5 segments), 1 middle part (12 segments), 1 posterior part (9 segments), 1 Ind. without head (damaged) - 1 microslide: GP, pairs of legs.

Type locality: Italy, Lombardia, Bosco della Fontana [coll. don. Holdhaus].

Inventory number: 2318

franzi ATTEMS

Dimastosternum franzi ATTEMS, 1949 (123/8).

Current status: *Dimastosternum franzi* ATTEMS, 1949

Family: Attemsidae

Holotype: 1 ♂ (dissected).

Type locality: Austria, "Großglockner Gebiet, Großer Pocher" [coll. don. Franz 1943].

Inventory number: 2315

franzi MAURIÈS

Betscheuma franzi MAURIÈS, 1997 (p. 550).

Current status: *Betscheuma franzi* MAURIÈS, 1997

Family: Pygmaeosomatidae

Holotype: 1 ♂ (dissected)

Type locality: Madagascar, Province Toamasina, Baie de Maroantsetra, Nambasana [coll. H. Franz 12. 05. 1969, don. Franz].

Inventory number: 1993

friulanum STRASSER

Ceratosoma friulanum STRASSER, 1937 (p. 47).

Current status: *Ochogona (Stenalpium) friulanum* STRASSER, 1937, see KURNIK (1988). **Family:** Craspedosomatidae

Syntypes: 1 ♂, 1 ♀ vulva - preparation (Kurnik).

Type locality: Italy, Friuli Spilimbergo [coll. Strasser 03. 04. 1933, don. Strasser.].

Inventory number: 3600

Notes: rev. KURNIK (1988).

gallicum LATZEL

Chordeuma gallicum LATZEL, 1884 (1884 in GADEAU DE KERVILLE: 21).

Current status: *Melogona (Melogona) gallica* (LATZEL, 1884). BROLEMANN (1935) placed this species in the genus *Microchordeuma* VERHOEFF, 1897 see JEEKEL (1971), which is a synonym of *Melogona* COOK, 1895, see HOFFMAN (1980).

Family: Chordeumatidae

Syntypes: 2 ♂♂, 4 ♀♀, 3 posterior parts.

Type locality: France, Normandie [coll. H. Gadeau de Kerville, don. Latzel].

Inventory number: 2160 (Acquisition 1919)

gallitarum BROLEMANN

Ceratosoma gallitarum BROLEMANN, 1900 (p. 200).

Current status: *Ochogona (Thalassalpium) gallitarum* BROLEMANN, 1900. See JEEKEL (1971) and HOFFMAN (1980).

Family: Craspedosomatidae

Syntypes: 5 ♂♂, 1 ♀, 4 indet.

Type locality: France, Basses-Alpes, Allos (2000m) [coll. Brolemann. 12.06.1899, don. Brolemann 10.1900].

Inventory number: 2158

germanicum VERHOEFF

Orobainosoma germanicum VERHOEFF, 1901 (188/102).

Current status: *Haasea (Brachybainosoma) germanica* VERHOEFF, 1901, see KURNIK (1988).

Family: Haaseidae

Syntypes: 2 ♂♂, 3 ♀♀ (1 broken, 1 without vulva), 3 immatures, 1 vulva - preparation (Kurnik).

Type locality: Germany, "Bayrisch-Böhmischer Wald, Böhmischer Wald"

Inventory number: 2127

Notes: rev. KURNIK (1988).

gestri portofinense VERHOEFF thes Museum Wien, download unter www.biologiezentrum.at

Verhoeffia gestri ssp. *portofinense* VERHOEFF, 1910 (263/271).

Current status: unclear, neither STRASSER (1971a), nor MRŠIĆ (1994) and FODDAI & al. (1995) mention the ssp. *portofinense*. Perhaps *Haplogona gestri* (SILVESTRI, 1898).

Family: Verhoeffiidae

Syntype: 1 immature.

Type locality: Italy, Liguria, Portofino [coll. don. Verhoeff].

Inventory number: 2134 (Acquisition 1908.XIII)

Notes: VERHOEFF (1910) states that this species has 30 segments. 2 ♂♂, 1 ♀ and 1 juvenile were available to VERHOEFF (1910).

gibberosum VERHOEFF

Atractosoma (Calatractosoma) gibberosum VERHOEFF, 1900 (173/376).

Current status: *Atractosoma (Calatractosoma) gibberosum* VERHOEFF, 1900

Family: Craspedosomatidae

Syntype: 1 ♀, 1 vulva - preparation (Kurnik).

Type locality: Switzerland, Lugano, Monte Generoso [coll. don. Verhoeff].

Inventory number: 2151

Notes: rev. KURNIK (1988)

graecense ATTEMS

Chordeuma graecense ATTEMS, 1895 (5/197).

Current status: *Haplogona oculodistincta* (VERHOEFF, 1893) (68/269), according to HOFFMAN (1971) and KURNIK (1987). According to STRASSER (1971a) and MRŠIĆ (1994) *Haplogona graecensis* (ATTEMS, 1895).

Family: Verhoeffiidae

Syntypes: a) (♂ sign on label): 1 ♂, 2 posterior parts - a') (♀ sign on label): 1 ♂, 22 ♀♀, 5 immatures, 5 anterior parts, 1 middle part, 3 posterior parts, 1 ??-preparation - 7 microslides: GP, pairs of legs.

Type locality: Austria, Graz, "Leechwald" [coll. Attems].

Inventory number: 2942

gruberi MAURIÈS

Betscheuma gruberi MAURIÈS, 1997 (p. 546).

Current status: *Betscheuma gruberi* MAURIÈS, 1997

Family: Pygmaeosomatidae

Holotype: 1 ♂ (dissected).

Type locality: Madagascar, Province Toliara, Col de Manangotry près de Taolanaro (Fort-Dauphin) [coll. Franz 4. 05. 1969, don. Franz].

Inventory number: 1991

hanfi ATTEMS

Ceratosoma (Leptalpium) hanfi ATTEMS, 1927 (64/106).

Current status: *Ochogona (Leptalpium) hanfi* (ATTEMS, 1927), see KURNIK (1988). STRASSER (1967) placed the species under the genus *Asandalum* ATTEMS, 1949 (124/13) (validated 1959), synonym of *Ochogona (Euceratosoma)*, see HOFFMAN (1980).

Family: Craspedosomatidae

Syntypes: 6 anterior parts, 4 middle parts (bad condition), 6 posterior parts - 1 microslide: GP, pairs of legs.

Type locality: Austria, Styria "Greibenzen an der Baumgrenze" [coll. don Holdhaus 09. 1921].

Inventory number: 2331

holdhausi ATTEMS

Ceratosoma (Limnalpium) holdhausi ATTEMS, 1927 (64/105).

Current status: *Ochogona (Limnalpium) holdhausi* (ATTEMS, 1927) according to KURNIK (1988), *Ornithogona holdhausi* (ATTEMS, 1927), see HOFFMAN (1980). ATTEMS, 1949 (124/137) placed the species in *Asandalum*, synonym of *Ochogona (Euceratosoma)*, see HOFFMAN (1980).

Family: Craspedosomatidae

Syntypes: 1 ♂, 2 ♀♀, 2 indet., 3 posterior parts, 2 heads - 1 microslide: GP, pairs of legs.

Type locality: Austria, Carinthia "Königstuhlgebiet" [coll. don. Holdhaus 1920].

Inventory number: 2333

holdhausi ATTEMS

Dimastosternum holdhausi ATTEMS, 1927 (64/88).

Current status: *Dimastosternum holdhausi* ATTEMS, 1927

Family: Attemsiidae

Holotype: 1 ♂ (damaged) - 1 microslide: GP, pairs of legs.

Type locality: Austria, Styria "Greibenzen" [coll. don. Holdhaus 1921].

Inventory number: 2316

illyricum VERHOEFF

Latzelia illyricum VERHOEFF, 1895 (99/210).

Current status: *Haplogona oculodistincta* (VERHOEFF, 1893), see HOFFMAN (1971) and KURNIK (1987). VERHOEFF (1893) published the name *Chordeuma oculodistinctum*, but only females were available to him, thus he published in 1895 a redescription and changed the name to *illyricum*.

Family: Chordeumatidae

Syntypes: 2 ♀♀, 2 immature.

Type locality: Croatia, Istra [coll. Verhoeff, don. Verhoeff].

Inventory number: 3599 (Acquisition 1896.I.20)

inflatum VERHOEFF

Orobainosoma (Orobainosoma) inflatum VERHOEFF, 1907 (238/323).

Current status: *Haasea (Haasea) inflata* (VERHOEFF, 1907), see JEEKEL (1971)

Family: Haaseidae

Syntypes: 1 ♂, 1 middle part (5 segments), 1 ♀ posterior part (2 segments), 1 posterior part (15 segments).

Type locality: Slovenia, Carniola [coll. Verhoeff, don. Verhoeff 1907].

Inventory number: 3614

insulanum ATTEMS

Dactylophorosoma (Paradactylophorosoma) insulanum ATTEMS, 1908 (35/193).

Current status: *Dactylophorosoma insulanum* ATTEMS, 1908

Family: Craspedosomatidae

Syntypes: 5 ♂♂, 2 ♀♀, 2 immatures, 2 posterior parts (11 and 20 segments) - 2 microslides: pairs of legs, GP ? (bad condition).

Type locality: Italy, Elba [coll. don. Holdhaus 1806].

Inventory number: 2319

insulanum ATTEMS

Dyocerasoma (Dyocerasoma). insulanum ATTEMS, 1951 (130/255).

Current status: *Dyocerasoma (Dyocerasoma) insulanum* ATTEMS, 1951

Family: Craspedosomatidae

Syntypes: 1 ♂, 1 ♀ - 1 immature, 3 anterior parts (5, 13 and 13 segments), 8 middle parts (3, 4, 4, 4, 5, 7, 7 and 11 segments), 4 posterior parts (10, 12, 10 and 15 segments), 2 heads.

Type locality: Croatia, Dalmatia, Brač Island "Basekovca" [coll. don. Absolon 1944].

Inventory number: 2320

karoli VERHOEFF

Heterobraueria karoli VERHOEFF, 1897 (133/19).

Current status: *Heterobraueria karoli* VERHOEFF, 1897

Family: Mastigophorophyllidae

Syntypes: 5 ♂♂, 4 ♀♀ without heads and anterior segments, 3 ♀♀ with heads and anterior segments only, 1 vulva - preparation (Kurnik) - 1 microslide: GP.

Type locality: Romania, Sinaia [coll. Verhoeff, don Th. Adensamer].

Inventory number: 2126 (Acquisition 1897.I.28)

Notes: rev. KURNIK (1988). The microslide was prepared by Attems, not Verhoeff. In the book of acquisition as well as in Attems' catalogue 6 ♀♀ and 6 ♂♂ are indicated.

lacertosa ATTEMS

Metopidothrix lacertosa ATTEMS, 1906 (33/128).

Current status: *Metopidothrix lacertosa* ATTEMS, 1906

Family: Metopidiotricidae, see JEEKEL (2000).

Syntypes: 1 ♂ (posterior part missing), 1 ♀ - 3 microslides: ♀ head, GP, pair of legs.

Type locality: Indonesia, Java "Tjibodas" [coll. K. Kraepelin 1903].

Inventory number: 2309

latzeli ATTEMS

Ceratosoma (Limnalpium) latzeli ATTEMS, 1927 (64/103).

Current status: *Ochogona (Limnalpium) latzeli* (ATTEMS, 1927), see KURNIK (1988). *Ornithogona latzeli* (ATTEMS, 1927), see HOFFMAN (1980); *Asandalum (Limnalpium) latzeli* (ATTEMS, 1927), see STRASSER (1971a).

Family: Craspedosomatidae

Syntypes: 5 ♂♂, 14 ♀♀, 2 anterior parts, 2 middle parts, 4 posterior parts, vulva - preparation (Kurnik), 2 indet., 4 heads - 5 microslides, GP, pairs of legs.

Type locality: Croatia, "Delnice" [coll. Attems 10. 1907].

Inventory number: 2334

Notes: rev. KURNIK (1988).

latzeli VERHOEFF

Atractosoma latzeli VERHOEFF, 1891 (16/127).

Current status: *Nanogona polydesmoides* (LEACH, 1815), see JEEKEL (1971) and BLOWER (1985). *Atractosoma latzeli* is the type species of *Polymicrodon*, VERHOEFF, 1897, see HOFFMAN (1980).

Family: Craspedosomatidae

Syntype: 1 ♀.

Type locality: Great Britain "Südengland" [don. Verhoeff, Verhoeff got the specimens from Charles Beavis].

Inventory number: 2154 (Acquisition 1896.I.63)

lignivorum VERHOEFF

Polymicrodon lignivorum VERHOEFF, 1899 (151/141).

Current status: *Dyocerasoma (Xylomicrodon) lignivorum* (VERHOEFF, 1899), see VERHOEFF (1901) (190/227).

Family: Craspedosomatidae

Syntypes: 2 ♂♂ (1 dissected, GP missing).

Type locality: Romania, Banat [coll. don. Verhoeff].

Inventory number: 2155 (Acquisition 1899.III.1)

Notes: According to the book of acquisition this series should contain 1 ♂ and 1 ♀.

ligurinum VERHOEFF

Oxydactylon ligurinum VERHOEFF, 1910 (263/316).

Current status: *Iulogona ligurina* (VERHOEFF, 1910)

Family: Craspedosomatidae

Syntypes: 1 ♀ vulva - preparation (Kurnik).

Type locality: Italy, Liguria [coll. don. Verhoeff].

Inventory number: 3601 (Acquisition 1908.XIII)

Notes: rev. KURNIK (1988). The specimen was sent to the Museum two years before the name was published.

mehelyi VERHOEFF

Heteroporatia (Xiphochaetoporatia) mehelyi VERHOEFF, 1897 (138/195).

Current status: *Mastigona (Xiphochaetoporatia) mehelyi* (VERHOEFF, 1897).

This species is very similar to *Mastigona bosniensis* (VERHOEFF, 1897) and taxonomically has an uncertain status, see KORSÓS (1994).

Family: Mastigophorophyllidae

Syntypes: 5 ♂♂, 5 ♀♀.

Type locality: Hungary, "Mittelungarn" [coll. Verhoeff 09.1897].

Inventory number: 2123 (Acquisition 1897.XXVII.32)

minutum MAURIÈS

Betscheuma minutum MAURIÈS, 1997 (p. 549).

Current status: *Betscheuma minutum* MAURIÈS, 1997

Family: Pygmaeosomatidae

Holotype: 1 ♂ (dissected).

Type locality: Madagascar, Prov. Antsiranana, environs d'Antsamanara et d'Atalongo [coll. Franz 18.05.1969, don. Franz].

Inventory number: 1997

moniliforme LATZEL

Craspedosoma moniliforme LATZEL, 1884 (p. 197).

Current status: *Polyphematia moniliformis* (LATZEL, 1884), see STRASSER (1965b) and MRŠIĆ (1987a).

Family: Attemsidae

Holotype: 1 ♂ (damaged).

Type locality: Austria, Styria "Hochgebirgsthal" [coll. don. Latzel].

Inventory number: 2138 (Acquisition 1919.)

Notes: rev. STRASSER (1965b)

mutabile var. *fasciatum* LATZEL

Craspedosoma mutabile var. *fasciatum* LATZEL, 1884 (p. 199).

Family: Mastigophorophyllidae

Current status: ? Only mentioned in SCHUBART (1934) as a synonym of *Heteroporatia (Xiphochaeteporatia) bosniense* VERHOEFF, 1897 (138/193).

Syntypes: 4 ♂♂, 2 ♀♀, 10 immatures: 1 with 23 segments - 2 with 26 segments - 5 ♀♀ with 28 segments - 2 ♂♂ with 28 segments).

Type locality: Austria, Carinthia Klagenfurt, Hungary "Rutek" [coll. don. Latzel].

Inventory number: 2128

Notes: Locality detail from book of acquisition.

mutabile punctulatum LATZEL

Craspedosoma mutabile var. *punctulatum* LATZEL, 1884 (p. 199).

Current status: ? Only mentioned in SCHUBART (1934) as a synonym of *Mastigophorophyllon saxonicum* VERHOEFF, 1910.

Family: Mastigophorophyllidae

Syntypes: 2 ♀♀(?)

Type locality: "Schlesien"

Inventory number: 2129

Notes: 1 Ind. with 49 pairs of legs, the other with 50. In the original description Latzel recorded 50 pairs of legs for the female and 48 for the male.

napolitanus ATTEMS

Prodicus napolitanus ATTEMS, 1899 (13/318).

Current status: *Anamastigona hispidula* (SILVESTRI, 1895), see STRASSER & MINELLI (1984).

Family: Anthroleucosomatidae

Syntypes: a) 1 ♀, 1 posterior part - b) 10 ♀♀ - 3 microslides: GP, pairs of legs, Gnathochilarium.

Type locality: Italy, Gli Astroni near Napoli [coll. Attems 28.02.1898].

Inventory number: 2340

nodipes ATTEMS

Hispaniodesmus nodipes ATTEMS, 1952 (133/354), recte *Hispaniosoma*.

Current status: *Ceratosphys (Haplosphys) nodipes* (ATTEMS, 1952), see MAURIÈS (1978).

Family: Opisthocheiridae

Lectotype: 1 ♂. **Paralectotypes:** 1 ♀ - 3 posterior parts, 3 middle parts, 1 head.

Type locality: Spain, Malaga, Sierra Ronda, Monte Arastepa [coll. don. Franz 1951].

Inventory number: 1651

Notes: Lectotype designation by MAURIÈS (1978).

octocera ATTEMS

Pseudoclis octocera ATTEMS, 1899 (13/310).

Current status: *Pseudoclis octocera* ATTEMS, 1899

Family: Entomobielziidae

Syntypes: 1 ♂ (dissected, GP missing), 1 ♀.

Type locality: Romania, "Siebenbürgen, Cibinsgebirge" [coll. Latzel 1899].

Inventory number: 2313

oribates LATZEL

Craspedosoma oribates LATZEL, 1884 (p. 194).

Current status: *Heterohaasea oribates* (LATZEL, 1884), see STRASSER (1965b), *Dendromonomeron oribates* (LATZEL, 1884), see HOFFMAN (1980) and MRŠIĆ (1987a).

Family: Attemsidae

Syntypes: 1 ♀.

Type locality: Austria, Upper Austria "Gnadenalm" [coll. don. Latzel].

Inventory number: 2140 (Acquisition 1884.I.81)

Notes: Locality detail from book of acquisition.

penicillatus ATTEMS

Prodicus penicillatus ATTEMS, 1902 (23/585).

Current status: *Paraprodicus penicillatus* (ATTEMS, 1902) according to VERHOEFF (1940) and HOFFMAN (1980). STRASSER (1974) placed the species under *Prodicus*.

Family: Anthroleucosomatidae

Syntypes: 1 ♂, 1 ♀ - 3 microslides: GP, pairs of legs.

Type locality: Greece, Crete "Aselakia-Wald in Askiphu" [coll. Attems 13.05.1900].

Inventory number: 2341

peniculorum VERHOEFF

Trimerophoron (Trimerophorella ?) peniculorum VERHOEFF, 1910 (263/327).

Current status: *Pseudocraspedosoma peniculorum* (VERHOEFF, 1910), see FODDAI & al. (1995).

Family: Neoatractosomatidae

Syntype: 1 immature (broken).

Type locality: Italy, Como (mountain Brunate), 750m [coll. don. Verhoeff].

Inventory number: 2119 (Acquisition: 1908.XIII.)

Notes: Attems determined it as *Mesotrimeron peniculorum* (VERHOEFF, 1910).

peranosyense MAURIÈS

Betscheuma peranosyense MAURIÈS, 1997 (p. 545).

Current status: *Betscheuma peranosyense* MAURIÈS, 1997

Family: Pygmaeosomatidae

Holotype: 1 ♂ (dissected).

Type locality: Madagascar, Province Toliara, Scierie de Bimangidy, 100 km N de Taolanaro (Fort-Dauphin) [coll. Franz 3.05.1969, Franz].

Inventory number: 1990

phyllophagum ATTEMS

Atractosoma phyllophagum ATTEMS, 1899 (13/313).

Current status: *Ochogona* (*Ochogona*) *phyllophaga* (ATTEMS, 1899).

According to ATTEMS & SCHMÖLZER-FALKENBERG (1975) *Triakontazona* (*Tr. phyllophagum*) (ATTEMS, 1899). This genus is a synonym of *Ochogona* (*Ochogona*), see HOFFMAN (1980). KORSÓS (1994) did not mention the species in his checklist of Hungarian diplopods.

Family: Craspedosomatidae

Syntypes: 4 ♂♂, 2 ♀♀, 2 ♀♀ anterior parts, 6 posterior parts, 1 vulva - preparation (Kurnik), 2 GP.

Type locality: Hungary, near the Austrian border, Szentgotthárd. "St. Gotthard in Ungarn, ganz nahe der steirischen Grenze" [coll. Attems 7.10.1898].

Inventory number: 2324

Notes: rev. KURNIK (1988).

plasanum VERHOEFF

Orobainosoma plasanum VERHOEFF, 1899 (151/135).

Current status: *Haasea* (*Brachybainosoma*) *plasana* (VERHOEFF, 1899), see JEEKEL (1971).

Family: Haaseidae

Syntypes: 1 ♂, 1 ♀

Type locality: Bosnia Hercegowina, [coll. Verhoeff].

Inventory number: 2130 (Acquisition 1899.III.29)

pontremolense VERHOEFF

Pyrgocyphosoma pontremolense VERHOEFF, 1936 (487/400).

Current status: *Pyrgocyphosoma pontremolense* VERHOEFF, 1936

Family: Craspedosomatidae

Syntype: 1 ♂.

Type locality: Italy, "N-Apennin " [coll. Verhoeff, don. Verhoeff 1940].

Inventory number: 2145

pusillum furculigerum VERHOEFF

Ceratosoma (*Triakontazona*) *pusillum* ssp. *furculigerum* VERHOEFF, 1927 (401/268).

Current status: *Ochogona* (*Ochogona*) *pusilla furculigera* (VERHOEFF, 1927), see JEEKEL (1971) and KURNIK (1988).

Family: Craspedosomatidae

? **Syntypes:** 2 ♀♀, 1 ♂, 1 ♀ anterior part.

Type locality: Austria, Carinthia [coll. Verhoeff, don. Verhoeff 1940].

Inventory number: 3618

Notes: The type status is not entirely certain. The species was described in 1927 and the Museum obtained the specimens in 1940. The locality on the label is not specified.

renanum VERHOEFF*Pyrgocyphosoma renanum* VERHOEFF, 1932 (449/309).**Current status:** *Pyrgocyphosoma renanum* VERHOEFF, 1932**Family:** Craspedosomatidae**Syntype:** 1 ♂.**Type locality:** Italy "N- Apennin" [coll. Verhoeff, don. Verhoeff 1940].**Inventory number:** 2148*rhopalophora* ATTEMS*Metopidiotrix rhopalophora* ATTEMS, 1906 (33/126).**Current status:** *Metopidiotrix rhopalophora* ATTEMS, 1906**Family:** Metopidiotricidae, see JEEKEL (2000).**Syntypes:** 4 ♂♂, 1 ♀, 1 Immature - 4 microslides: legs, GP.**Type locality:** Indonesia, Java Bogor (= Buitenzorg) [coll. Kraepelin 1903].**Inventory number:** 2308*roccavionense* VERHOEFF*Pyrgocyphosoma roccavionense* VERHOEFF, 1937 (496/125).**Current status:** *Pyrgocyphosoma roccavionense* VERHOEFF, 1937**Family:** Craspedosomatidae**Syntypes:** 1 ♂ - 1 ♂.**Type locality:** Italy, Piemonte, Roccavione [coll. Verhoeff, don. Verhoeff 1935].**Inventory number:** 2144*saxonicum* VERHOEFF*Mastigophorophyllum saxonicum* VERHOEFF, 1910 (263/265).**Current status:** *Mastigophorophyllum saxonicum* VERHOEFF 1910.According to CEUCA (1976) subgenus *Paramastigophorophyllum saxonicum* (VERHOEFF, 1899), which is not valid, see HOFFMAN (1980).**Family:** Mastigophorophyllidae**Syntypes:** 1 ♀♀, vulva - preparation (Kurnik).**Type locality:** Germany, Sachsen "Sächsische Schweiz" [coll. don. Verhoeff 1908].**Inventory number:** 3613 (Acquisition 1908.XIII)**Notes:** rev. KURNIK (1988).*septentrionale* MAURIÈS*Betscheuma septentrionale* MAURIÈS, 1997 (p. 550).**Current status:** *Betscheuma septentrionale* MAURIÈS, 1997**Family:** Pygmaeosomatidae**Holotype:** 1 ♂ (dissected).**Type locality:** Madagascar, Province, Antsiranana, Montagne d'Ambre, Montagne du Petit-Lac [coll. Franz 21.05.1969, don. Franz].**Inventory number:** 1999*serrulatum* ATTEMS*Mastigophorophyllum serrulatum* ATTEMS, 1927 (64/83).**Current status:** *Mastigophorophyllum serrulatum* ATTEMS, 1927. CEUCA (1976) gives as subgenus *Paramastigophorophyllum serrulatum* (VERHOEFF 1899) which is invalid according to HOFFMAN (1980).

Family: Mastigophorophyllidae

Syntypes: 8 ♀♀ (one dissected), 1 anterior part (21 segments), 2 posterior parts (8 and 14 segments), 1 head + 5 segments (legs missing) - 2 ♂, 1 posterior part (14 segments), 1 middle part (7 segments) - 2 microslides: GP, ♂ pairs of legs.

Type locality: Romania, Carpathian Mountains - East, "Rareul, Berg südl. v. Kimpolung in der Bukowina" [coll. don. Holdhaus].

Inventory number: 2312

Notes: rev. KURNIK (1988).

silvatica ATTEMS

Heterolatzelia (Fagina) silvatica ATTEMS, 1904 (28/182).

Current status: *Fagina silvatica* (ATTEMS, 1904), see STRASSER (1971a).

Family: Faginidae

Syntypes: 1 ♀, 1 posterior part (14 segments) - 1 ♂, 8 ♂♂, 17 ♀♀, 3 ♂ anterior parts (5, 7 and 16 segments), 1 ♂ posterior part (22 segments), 2 posterior parts (7 and 16 segments) - 8 ♂♂, 1 ♀ (dissected), 6 immatures (1 broken), vulva - preparation - 1 ♂, 1 ♀ - 6 ♂♂, 16 ♀♀, 1 anterior part (2 segments), 1 posterior part (18 segments).

Type locality: Bosnia, "Bjelasnica Fichtenwald, oberer Buchenwald" [coll. Attems, 08.10.1910].

Inventory number: 2253

Notes: Series 1 - 4 reviewed by MAURIÈS 1998; in series 1 Mauriès indicates that there are 12 ♂♂, 19 ♀♀, but 17 ♀♀ + 12 ♂♂ + 6 posterior parts can be accounted for.

simile ATTEMS

Craspedosoma simile ATTEMS, 1895 (5/191).

Current status: *Haploporatia similis* (ATTEMS, 1895), see KURNIK (1988).

In his catalogue Attems placed this species in the genus *Haploporatia* VERHOEFF, 1897.

Family: Mastigophorophyllidae

Syntypes: 1) 120 ♂♂ + ♀♀ - 2) 5 ♀♀ - 3) 38 ♂♂ + ♀♀ - 4) 1 ♂, 4 ♀♀ - 5) 3 immatures (28 segments) - 6) 8 ♂♂, 6 ♀♀ - 7) 1 ♂, 4 ♀♀ - 11) 1 ♀.

Type locality: Austria, Styria 1) Graz "Leechwald" - 2) Graz "Maria Trost, Stiftingtal" - 3) Graz "Platte" - 4) Graz "Plabutsch" - 5) "Weizklamm" - 6) "Schöckl" - 7) "Bärenschütz" 11) Graz "Gösting" [coll. Attems 1892-1893].

Inventory number: 3610

Notes: In the original description, the localities of this species were generalized (Graz, Weizklamm, Kalsdorfer Auen, Schöckl etc.). We have one lot with 16 series from Attems' private collection. In Attems' catalogue the localities and the date of collection are specified. We have assumed that the series collected between 1892 and 1893 are the syntypes.

simile frondicolum VERHOEFF

Craspedosoma simile ssp. *frondicolum* VERHOEFF, 1910 (263/327).

Current status: *Craspedosoma transsilvanicum* VERHOEFF, 1897. ATTEMS (1929) (73/349) changed this subspecies to *Craspedosoma transsilvanicum transsilvanicum* var. *frondicolum* VERHOEFF, 1910. Neither STRASSER (1971a),

nor MRŠIĆ (1994) and FODDAI & al. (1995) mention the ssp. *frondicolum*.

Family: Craspedosomatidae

Syntypes: 1 ♂, 1 ♀

Type locality: Croatia, Zagreb, "Laubwald bei Agram" [coll. don. Verhoeff].

Inventory number: 3609 (Acquisition 1908.XIII)

simile tirolense VERHOEFF

Heteroporatia (Haploporatia) simile var. *tirolense* VERHOEFF, 1909 (260/562).

Current status: *Haploporatia carniolense* VERHOEFF, 1899, see STRASSER (1965a). VERHOEFF (1929) gave as *Heteroporatia (Haploporatia) carniolense tirolense*.

Family: Mastigophorophyllidae

Syntypes: 1 ♂, 1 ♀

Type locality: Austria, labelled "östliches Tirol", according to the original description "bei Lienz in Tirol" [coll. don. Verhoeff].

Inventory number: 2120 (Acquisition 1908.XIII)

solitarius ATTEMS

Alloiopus solitarius ATTEMS, 1951 127/412

Current status: *Alloiopus solitarius* ATTEMS, 1951

Family: Entomobielziidae? For HOFFMAN (1980) it is still conjectural that the genus *Alloiopus* belongs to that family. According to ATTEMS (1951) the genus belongs to the family Pseudocleididae ATTEMS, 1899, which is a synonym of Entomobielziidae VERHOEFF, 1899, see HOFFMAN (1980).

Syntypes: 3 microslides: GP, pairs of legs.

Type locality: Iran, Province Mazandaran "Lahidschan Teefeld" [coll. Löffler & "Genossen" 11.1950].

Inventory number: 3058

sphinx VERHOEFF

Allorhiscosoma sphinx VERHOEFF, 1907 (238/330).

Current status: *Allorhiscosoma sphinx* VERHOEFF, 1907

Family: Attemsidae

Syntype: 1 ♀, 1 immature.

Type locality: Slovakia, Kremnica "Ungarn, Kremnitz" [coll. don. Verhoeff 1907].

Inventory number: 2139

strandi ATTEMS

Neoatractosoma strandi ATTEMS, 1927 (64/86).

Current status: *Neoatractosoma strandi* ATTEMS, 1927

Family: Neoatractosomatidae

Holotype: 1 ♂ (dissected, GP missing).

Type locality: Italy, Toscana Monte Argentario [coll. don. Holdhaus 1907]

Inventory number: 2310

Notes: On another label in the vial written by Attems is "*Neoatractosoma argentarium*", which is an unpublished species name.

stygium LATZEL

Craspedosoma stygium LATZEL, 1884 (p. 196).

Current status: *Attemsia stygia* (LATZEL, 1884), see STRASSER (1965b) and MRŠIĆ (1987a).

Family: Attemsidae

Syntype: 1 ♀

Type locality: Slovenia, Postojnska jama [coll. don. Latzel].

Inventory number: 2137 (Acquisition 1884.I.82)

susurrinum ATTEMS

Listrocheiritium susurrinum ATTEMS, 1927 (64/93).

Current status: *Listrocheiritium susurrinum* ATTEMS, 1927. According to SPELDA (in litt. 2001) the species has either an intermediate position between *Listrocheiritium styricum* VERHOEFF, 1915 and *Listrocheiritium cervinum* VERHOEFF, 1925, or is a clear synonym of *Listrocheiritium cervinum* VERHOEFF, 1925. Further examinations are necessary to clarify the systematical state of the species.

Family: Craspedosomatidae

Syntypes: 1 ♂ (dissected), 2 ♂♂ 1 ♀♀ - 2 microslides: 8 pairs of legs, 1 cheirit - 2 gonopods missing one cheirit.

Type locality: Austria, Styria, "Gesäuse Tamischbachturm" [coll. Attems 01.10.1895].

Inventory number: 3608

Notes: Drawings of the gonopods (2nd microslide) are found in figures 72-74 (page 94) of the original description. In Attems' register card is noted the manuscript name *Susurrina ennisiphilia*.

terricolor ATTEMS

Placodes terricolor ATTEMS, 1899 (13/320).

Current status: *Diplomaragna terricolor* (ATTEMS, 1899), see JEEKEL (1971).

Family: Diplomaragnidae

Syntypes: 1 ♀ (dissected) - 1 ♂ (dissected, 8th + 9th segment and GP, which are illustrated in the original description) - 1 microslide: Gnathochilarium, GP.

Type locality: Russia, Vladivostok [don. Museum Hamburg].

Inventory number: 2307

Notes: Attems placed this species in the genus *Diplomaragna* in his catalogue. There exists not only a male holotype in the collection as SHEAR (1990) and MIKHALJOVA (1999) previously indicated.

titianum VERHOEFF

Craspedosoma (Pyrgocyphosoma) titianum VERHOEFF, 1910 (264/52).

Current status: *Pyrgocyphosoma titianum* VERHOEFF, 1910

Family: Craspedosomatidae

Syntypes: 1 ♂, 1 ♀, 1 vulva - preparation (Kurnik).

Type locality: Germany, Baden-Württemberg, Feldberg [coll. Verhoeff, don. Verhoeff 1935].

Inventory number: 2147

Notes: rev. KURNIK (1988)

transsylvanicum VERHOEFF

Heteroporatia transsylvanicum VERHOEFF, 1897 (133/14).

Current status: *Mastigona* (*Xiphochaetoporatia*) *transsylvanica* (VERHOEFF, 1897). According to JEEKEL (1971) the genus *Heteroporatia* is a synonym of *Mastigona*.

Family: Mastigophorophyllidae

Syntypes: 5 ♂♂ (one broken), 3 ♀♀, 3 anterior parts, 3 posterior parts (22 segments; one damaged).

Type locality: Romania "Transsilvania" [coll. Verhoeff, don. Th. Adensamer].

Inventory number: 2121 (Acquisition 1897.I.26).

transsylvanicum VERHOEFF

Microchordeuma transsylvanicum VERHOEFF, 1897 (133/13).

Current status: *Melogona* (*Chordeumella*) *transsylvanica* (VERHOEFF, 1897), see HOFFMAN (1980) and KORSÓS (1994).

Family: Chordeumatidae

Syntypes: 2 ♂♂, 3 immatures.

Type locality: Romania, Brasov [coll. Verhoeff, don. Th. Adensamer].

Inventory number: 1954 (Acquisition 1897.I.5)

triaina ATTEMS

Atractosoma triaina ATTEMS, 1895 (5/188).

Current status: *Ochogona* (*Leptalpium*) *triaina* (ATTEMS, 1895), see HOFFMAN (1980) and KURNIK (1988). According to STRASSER (1971a) *Asandalum* (*Leptalpium*) *triaina* (ATTEMS, 1895).

Family: Craspedosomatidae

Syntypes: a) 11 ♂♂, 2 anterior parts, 1 middle part, 4 posterior parts - b) 2 ♂♂ - c) 1 ♂, 1 ♀ - d) 2 ♂♂, 2 ♀♀ - f) 1 ♂, 3 ♀♀ - ♀ (marked by Attems as "triaina?"), 1 ♂, 6 ♀♀, 1 ♂ anterior part, 4 ♀ anterior parts, 5 anterior parts, 10 posterior parts, 6 indet. - 2 microslides: GP, pairs of legs.

Type locality: a) Austria, Styria "Graz Platte" - b) Lower Austria "Wiener Wald" - c) Lower Austria "Wiener Wald" - d) Croatia "Belathal bei Vidovec" - f) Croatia "Vidovec" - Austria, Styria "Graz Platte" [coll. Attems 1893 -1895].

Inventory number: 2332

Notes: These type series belong to Attems' private collection, which he marked as a) - f), with missing e) and one series lacked any notes. In comparison with the localities given in the description we are able to assign only those specimens from series a), b), c) and the series without any marks as real syntypes.

tridentis VERHOEFF

Acherosoma tridentis VERHOEFF, 1931 (438/9).

Current status: *Acherosoma* (*Acherosoma*) *tridentis* VERHOEFF, 1931, see STRASSER (1971a). *Haasia* (*Macrotelosoma*) *tridentis* (VERHOEFF, 1931), see HOFFMAN (1980).

Family: Anthroleucosomatidae

Syntype: 1 ♂ (damaged).

Type locality: Slovenia, Carniola, Idrija [coll. Strasser, don. Verhoeff 1940].

Inventory number: 2163

verhoeffi ATTEMS

Ceratosoma (Triakontazona) verhoeffi ATTEMS, 1927 (64/99).

Current status *Carniosoma verhoeffi* (ATTEMS, 1927), see STRASSER (1971b).

Family: Craspedosomatidae

Syntypes: 1) 14 ♂♂, 10 ♀♀, 6 ♀♀ anterior parts, 1 middle part, 7 posterior parts, 1 head - 1a) 1 ♀ (broken) - 1b) 1 ♀ (broken) - 2) 6 ♂♂, 8 ♀♀, 2 posterior parts, 1 middle part, 2 heads + 2 segments - 3) 1 ♂, 1 ♀ - 4) 1 ♂ - 5) microslides: GP, pairs of legs - 5) 3 ♂♂ (1 dissected, GP missing), 1 ♀ - 6a) 5 ♂♂ - 6b) 21 ♀♀, 57 immatures, 30 parts of immatures - 3) microslides: GP, pairs of legs.

Type locality: 1) Croatia, Velebit mountains "near Stirovača" [coll. Attems 26.09.1907]. - 2) Croatia "Mali Rainac" [coll. Attems 24.09.1907]. - 3) Bosnia Herzegovina "Satorina Abhang" [coll. Attems 27.09.1907]. - 4) Croatia, "Dundovič bei Stirovača" [coll. Attems 29.09.1907]. - 5) Croatia, "Delnice " [coll. Attems 08.10.1907]. - 6) Slovenia, Carniola, "Gottschee" [coll. Attems 01.10.1907].

Inventory number: 1) 2325 - 2) 2326 - 3) 2327 - 4) 2328 - 5) 2329 - 6) 2330

vittigerum VERHOEFF

Craspedosoma vittigerum VERHOEFF, 1900 (173/385).

Current status: *Pyrgocyphosoma vittigerum* (VERHOEFF, 1900), see VERHOEFF (1910b) (264/37).

Family: Craspedosomatidae

Syntypes: 2 ♂♂, 1 ♀

Type locality: Italy, Toscana, Vallombrosa [coll. don. Verhoeff].

Inventory number: 2143

Acknowledgements

We gratefully thank Jürgen Gruber who helped us with his expertise and Peter Dworschak for making helpful comments on the manuscript.

References

- ABSOLON, K. & LANG, J. 1933: Über *Macrochaetosoma troglomontana* nov. gen. n. sp. (Diplopoda) aus dem südillyrischen Karstgebiete. – Zoologischer Anzeiger 101 (5/6): 137-143.
- ATTEMS, C. 1894 (3): Vorläufige Mittheilung über die Copulationsfüße der Iuliden. – Zoologischer Anzeiger 17: 356-359.
- ATTEMS, C. 1895 (5): Die Myriopoden Steiermarks. – Sitzungsberichte der kaiserlichen Akademie der Wissenschaften Wien, mathematisch-naturwissenschaftliche Classe 104 (I): 117-238.
- ATTEMS, C. 1899 (13): Neues über Myriopoden. – Zoologische Jahrbücher Abteilung Systematik 12: 286-336.
- ATTEMS, C. 1902 (23): Myriopoden von Kreta, nebst Beiträgen zur allgemeinen Kenntnis einiger Gattungen. – Sitzungsberichte der Akademie der Wissenschaften Wien, mathematisch-naturwissenschaftliche Classe 111(I): 527-614.
- ATTEMS, C. 1903 (24): Beiträge zur Myriopodenkunde. – Zoologische Jahrbücher Abteilung Systematik 18: 63-154.

- ATTEMS, C. 1904 (27): Central- und hoch-asiatische Myriopoden. Gesammelt im Jahre 1900 von Dr. von Almassy und Dr. von Stummer. – Zoologische Jahrbücher Abteilung Systematik 20: 113-130.
- ATTEMS, C. 1904 (28): Neue palaearktische Myriopoden nebst Beiträgen zur Kenntnis einiger alten Arten. – Archiv für Naturgeschichte 70(I): 179-196.
- ATTEMS, C. 1907 (33): Javanische Myriopoden, gesammelt von Direktor Dr. K. Kraepelin im Jahre 1903. – Mitteilungen des Museums Hamburg 24: 77-142.
- ATTEMS, C. 1908 (35): Myriopoden von Elba. – Zoologische Jahrbücher Abteilung Systematik 26: 181-195.
- ATTEMS, C. 1927 (64): Über paläarktische Diplopoden. – Archiv für Naturgeschichte 92, A, 1/2: 1-256.
- ATTEMS, C. 1929 (73): Die Myriopodenfauna von Albanien und Jugoslawien. – Zoologische Jahrbücher Abteilung Systematik 56 (1928/29): 269-356.
- ATTEMS, C. 1949 (123): Myriopoden von der Gleinalpe und zwei neue Attemsiidae. – Mitteilungen des Naturwissenschaftlichen Vereins für Steiermark 77/78: 5-10.
- ATTEMS, C. 1949 (124): Die Myriopodenfauna der Ostalpen. – Sitzungsberichte der Akademie der Wissenschaften Wien, mathematisch-naturwissenschaftliche Klasse 158 I: 79-153.
- ATTEMS, C. 1951 (127): Ergebnisse der Österreichischen Iran-Expedition 1949/59. Myriopoden vom Iran, gesammelt von der Expedition Heinz Löffler und Genossen 1949/50. – Sitzungsberichte der Akademie der Wissenschaften Wien, mathematisch-naturwissenschaftliche Klasse 160 I: 387-426.
- ATTEMS, C. 1951 (130): Neue Höhlen-Myriopoden, gesammelt von Professor Absolon. – Anzeiger der Akademie der Wissenschaften Wien, 10: 253-257.
- ATTEMS, C. 1952 (133): Myriopoden der Forschungsreise Dr. H. Franz in Spanien 1951 nebst Übersicht über die gesamte iberische Myriopodenfauna. – EOS, Revista Espanola de Entomologia 28: 323-366.
- ATTEMS, C. 1959 (138): Die Myriopoden der Höhlen der Balkanhalbinsel. Nach dem Material der "Biospeologica balcanica" – Annalen des Naturhistorischen Museums in Wien 63: 281-406.
- ATTEMS, C. & SCHMÖLZER-FALKENBERG, U. 1975: Catalogus Faunae Austriae. Myriapoda Diplopoda. (Ein systematisches Verzeichnis aller auf österreichischem Gebiet festgestellten Tierarten). – Springer Verlag Wien Xib, 29pp.
- BLOWER, J. G. 1985: Millipedes. Keys and notes for the identification of the species. – Synopsis of the British Fauna (New Series) No. 35, published for the Linnean Society of London & The Estuarine and Brackish-Water Sciences Association, 242pp.
- BROLEMANN, H. W. 1900: Matériaux pour servir a une faune des myriapodes de France III, 30, No. 359, 6pp.
- BROLEMANN, H. W. 1935: Myriapodes Diplopodes (Chilognathes I). – In: Faune de France, no. 29, 369pp.
- CEUCA, T. 1976: The genus Mastigophorophyllon Verhoeff 1897 (Diplopoda, Ascospemphora). – Studia Universitatis Babeş-Bolyai Biologia 21: 37-43.
- COOK, O. F. 1895: Introductory note on the families of Diplopoda. – In: Cook & Collins, The Craspedosomatidae of North America. – Annals of the New York Academy of Sciences IX: 1-7.
- FODDAI D., MINELLI A., SCHELLER, U., & ZAPPAROLI, M. 1995: Chilopoda, Diplopoda, Pauropoda, Symphyla. – In: MINELLI, A., RUFFO, S. & LA POSTA, S. (eds.) Checklist delle specie della fauna italiana, 32. Calderini, Bologna, 35pp.

- GOLOVATCH, S. I. 1978: A new family of east - Asiatic Chordeumida (Diplopoda). – Zoologicheskii Zhurnal 57(7): 1008 - 1011. [In Russian with English summary].
- HOFFMAN, R. 1971: On the nomenclature of the Diplopod Family Haplogonidae. – Zoologischer Anzeiger, Leipzig 187, 5/6: 366-369.
- HOFFMAN, R. 1980: Classification of the Diplopoda. – Muséum d'Histoire Naturelle Genève 237pp.
- JECKEL, C.A.W. 1971: Nomenclator generum et familiarum Diplodorum: A List of the genus and family-group names in the class Diplopoda from the 10th edition of Linnaeus, 1758, to the end of 1957. – Monografieën van de Nederlandse Entomologische Vereniging No. 5, 412pp.
- JECKEL, C.A.W. 2000: Errata to Jeckel, (1970) 1971, Nomenclator Generum and Familiarum Diplodorum. Myriapod Memoranda. – (A collection of papers and notes on systematics and geography of Diplopoda and Chilopoda) Oisterwijk, II: 15-21.
- KORSÓS, Z. 1994: Checklist, preliminary distribution maps, and bibliography of millipedes in Hungary (Diplopoda). – Miscellanea Zoologica Hungarica 9: 29-82.
- KURNIK, I. 1987: Studien an Chordeumatida (Diplopoda) 2: Die Weibchen der Verhoeffiidae. – Carinthia II. 177./97. Jahrgang: 169-177.
- KURNIK, I. 1988: Zur Taxonomie ostalpiner Chordeumatida: Vulvenmorphologie und Identifikation der Weibchen. – Zoologisches Jahrbuch für Systematik 115: 229-268.
- LATZEL, R. 1884: Die Myriapoden der österreichisch-ungarischen Monarchie. 2. Bd.: Die Symphylen, Pauropoden und Diplopoden. – Hölder, Wien, 414 pp.
- LATZEL, R. 1885: Les Myriopodes de la Normandie (1re liste) – In: GADEAU DE KERVILLE, H. (ed.) Suivre de Diagnoses d'Espèces et de Variétés nouvelles. Bulletin de la Société des Amis des Sciences naturelles de Rouen (2): 1-24.
- MAUERMAYER, G. 1962: In: Lebensdarstellungen Deutscher Naturforscher. Karl Wilhelm Verhoeff 1867-1945 Selbstdarstellung eines deutschen Zoologen mit einem Verzeichnis seiner Veröffentlichungen. – Herausgegeben von der Deutschen Akademie der Naturforscher Leopoldina Nr. 9, 50pp.
- MAURIÈS, J.-P. 1978: Myriapodes - Diplopodes du sud de l'Espagne. Description d'espèces mal connues et révision de types du Muséum de Vienne. – Annalen des Naturhistorischen Museums in Wien 81: 575-588.
- MAURIÈS, J.-P. 1997: Matériel collecté par H. Franz, 1969 a Madagascar: nouvelles données taxonomiques et chorologiques sur le genre *Betscheuma* Mauriès, 1994 (Diplopoda: Craspedosomatida). – Annalen des Naturhistorischen Museums Wien, 99B: 539-554.
- MIKHALJOVA E.V. 1999: Review of the millipede family Diplomaragnidae (Diplopoda: Chordeumatida). – Arthropoda Selecta 8(3): 153-181.
- MORITZ, M. & FISCHER, S.C. 1973: Die Typen der Myriapoden-Sammlung des zoologischen Museums Berlin. I. Diplopoda, Teil I. – Mitteilungen des Zoologischen Museums Berlin Bd. 49/2: 351-375.
- MRŠIĆ, N. 1987a: Attemsiidae (Diplopoda) of Yugoslavia. – Razprave IV Razreda Sazu XXVII/5: 101-168.
- MRŠIĆ, N. 1987b: Genus *Ochogona* Cook 1895 (Craspedosomatidae, Diplopoda) of Yugoslavia. – Bulletin of Natural History Museum Belgrade B42: 51-78.
- MRŠIĆ, N. 1994: The Diplopoda (Myriapoda) of Croatia. – Razprave IV Razreda Sazu XXXV/12: 219-296.
- SCHUBART, O. 1934: Tausendfüßler oder Myriapoda I. Diplopoda. – In: DAHL, M. & BISCHOFF, H. (eds.) Die Tierwelt Deutschlands und der angrenzenden Meeresteile nach ihren Merkmalen und nach ihrer Lebensweise. 28. Teil. – Jena, 318pp.

- SHEAR, W. 1990: On the Central and East Asian Milliped Family Diplomaragnidae (Diplopoda, Chordeumatida, Diplomaragnoidea). – *American Museum Novitates* 2977: 1-40.
- STAGL, V. 2001: The Myriapod collection in the Natural History Museum in Vienna with special reference to the life-work of Carl Attems. – *Fragmenta faunistica* 43: 273-280.
- STAGL, V. & MILDNER, P. 2001: Zum Gedenken an Robert Latzel (1845-1919). – *Rudolphinum. Jahrbuch des Landesmuseums für Kärnten* 2000: 305-309.
- STRASSER, K. 1937: Über Nordfriauler Diplopoden. – *Atti del Museo Civico di Storia Naturale Trieste* XIII/3: 35-104.
- STRASSER, K. 1965a: Über Diplopoden aus Kärnten und anderen Ostalpenländern. – *Carinthia II, Mitteilungen des Naturwissenschaftlichen Vereins für Kärnten*, 75. bzw. 155. Jahrgang, 127-142.
- STRASSER, K. 1965b: Über österreichische Attemsiiiden (Diplopoda Ascospermophora) 5. Attemsiiiden-Beitrag. – *Annalen des Naturhistorischen Museums Wien*, 68: 553-583.
- STRASSER, K. 1967: Zur Kärntner Diplopoden-Fauna (Dritter Beitrag). – *Carinthia II, Mitteilungen des Naturwissenschaftlichen Vereins für Kärnten*, 77 bzw. 157. Jahrgang: 215-222.
- STRASSER, K. 1969: Über Diplopoden Bulgariens, II. – *Annales zoologici, Warszawa*, XXVII (7): 133-168.
- STRASSER, K. 1971a: *Catalogus faunae Jugoslaviae, Diplopoda*. – *Consilium academiarum scientiarum rei publicae socialisticae foederativae Jugoslaviae. Academia scientiarum et artium slovenica Ljubljana* III/4: 48pp.
- STRASSER, K. 1971b: Über Diplopoden Jugoslawiens. – *Senckenbergiana biologica* 52 (3/5): 313-345.
- STRASSER, K. 1973: Über die Gattung *Prionosoma* und andere Diplopoden aus Höhlen der Provinz Brescia (Lombardei). – *Natura Bresciana Annuario del museo civico do storia naturale di Brescia*, 10: 91-103.
- STRASSER, K. 1974: Über Diplopoda-Chilognatha Griechenlands. – *Revue Suisse de Zoologie, Genève*, 81 (1): 219-300.
- STRASSER, C. & MINELLI, A. 1984: *Elenco dei Diplopodi d'Italia*. – *Società Veneziana di Scienze Naturali* 9 (2): 193-212.
- STROUHAL, H. 1961: Hofrat Dr. Carl Graf Attems zum Gedenken. – *Annalen des Naturhistorischen Museums in Wien* 64: 1-38.
- VERHOEFF, K.W. 1891 (16): Ein Beitrag zur mitteleuropäischen Diplopodenfauna. – *Berliner Entomologische Zeitschrift* 36: 115-166.
- VERHOEFF, K.W. 1893 (68): Neue Diplopoden aus dem österreichischen Küstenlande. – *Berliner Entomologische Zeitschrift* 38: 267-278.
- VERHOEFF, K.W. 1895 (99): Aphorismen zur Biologie, Morphologie, Gattungs- und Art-systematik der Diplopoden. – *Zoologischer Anzeiger* 18: 203-211, 213-226, 237-244.
- VERHOEFF, K.W. 1896 (122): Zusammenfassende Darstellung der Aufenthaltsorte der mitteleuropäischen Diplopoden. (Beiträge zur Kenntnis paläarktischer Myriopoden 3). – *Archiv für Naturgeschichte* 62(1): 27-38.
- VERHOEFF, K.W. 1897 (133): Beiträge zur vergleichenden Morphologie, Gattungs- und Art-systematik der Diplopoden, mit besonderer Berücksichtigung derjenigen Siebenbürgens. – *Zoologischer Anzeiger* 20: 78-88, 97-125.
- VERHOEFF, K.W. 1897 (138): Über Diplopoden aus Bosnien, Herzegowina und Dalmatien. I. Theil: Polydesmidae, II. u. III. Theil: Chordeumidae und Lysioptetalidae. – *Archiv für Naturgeschichte* 63(1): 139-146, 147-156, 181-204.

- VERHOEFF, K.W. 1899 (151): Zur vergleichenden Morphologie, Phylogenie, Gruppen- und Art-Systematik der Chordeumiden. (Beiträge zur Kenntnis paläarktischer Myriopoden 8). – Archiv für Naturgeschichte 65(1): 95-154.
- VERHOEFF, K.W. 1900 (173): Zur vergleichenden Morphologie, Phylogenie, Gruppen- und art-Systematik der Ascospormophora. (Beiträge zur Kenntnis paläarktischer Myriopoden 13). – Archiv für Naturgeschichte 66(1): 347-402.
- VERHOEFF, K.W. 1901 (188): Über Diplopoden aus Süddeutschland und Tirol. (Beiträge zur Kenntnis paläarktischer Myriopoden 18). – Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg 57: 81-111.
- VERHOEFF, K.W. 1901 (190): Diplopoden aus Herzegowina, Ungarn und Baiern. (Beiträge zur Kenntnis paläarktischer Myriopoden 19). – Archiv für Naturgeschichte 67(1): 221-240.
- VERHOEFF, K.W. 1907 (238): Über Diplopoden. 6.(26.) Aufsatz: Tausendfüßler aus Brandenburg und andere Formen aus Ostdeutschland und Österreich-Ungarn. – Mitteilungen aus dem zoologischen Museum in Berlin 3: 261-337.
- VERHOEFF, K.W. 1909 (260): Über einige Mastigophorophylliden und Craspedosomiden. – Zoologischer Anzeiger 34: 561-565.
- VERHOEFF, K.W. 1910a (263): Über Diplopoden. 11.-15.(31.-35.) Aufsatz: Beiträge zur Kenntnis der Glomeriden, Juliden, Ascospormorpha [!] und Lysiopetaliden, sowie zur Fauna Siziliens, Untersuchungen über Art- und Gruppensystematik, Morphologie, nachembryonale Entwicklung, Biologie und Geographie. – Nova Acta Leopoldina 92: 139-448.
- VERHOEFF, K.W. 1910b (264): Über Diplopoden. 17.(37.) Aufsatz: Deutsche Craspedosomiden. – Sitzungsberichte der Gesellschaft naturforschender Freunde zu Berlin: 19-62.
- VERHOEFF, K.W. 1926 (393): Über einige von Dr. I. Buresch in Bulgarien gesammelte Diplopoden. – 1. Aufsatz. Arbeiten der Bulgarischen Naturforschenden Gesellschaft 12: 67-78.
- VERHOEFF, K.W. 1927 (401): 1927. Beiträge zur Systematik, Morphologie und Geographie europäischer Ascospormophoren. (107. Aufsatz über Diplopoden). – Zoologisches Jahrbuch Abteilung für Systematik 54: 243-314.
- VERHOEFF, K.W. 1929 (421): Über neue ostalpine Chilognathen. (113. Diplopoden-Aufsatz). – Zoologisches Jahrbuch Abteilung für Systematik 58: 481-520.
- VERHOEFF, K.W. 1931 (438): Arthropoden aus südostalpinen Höhlen gesammelt von Karl Strasser. *Orobainosoma faucium* n. sp. - 6. Aufsatz. – Mitteilungen über Höhlen- und Karstforschung 1: 14-30.
- VERHOEFF, K.W. 1932 (447): Zur Geographie, Ökologie und Systematik der Diplopoden Nordwestitaliens. (123. Diplopoden-Aufsatz). – Archiv für Naturgeschichte (N.F.) 1: 517-645.
- VERHOEFF, K.W. 1932 (449): Diplopoden, besonders aus den östlichen Apenninen. (125. Diplopoden-Aufsatz). – Zoologisches Jahrbuch Abteilung für Systematik 63: 300-351.
- VERHOEFF, K.W. 1934 (468): Über einige meist neue Diplopoden aus den zentralen Südalpen. (134. Diplopoden-Aufsatz). – Zoologischer Anzeiger 107: 140-154.
- VERHOEFF, K.W. 1936 (487): Chilognathen aus Nordwestitalien und über einige andere mediterrane Diplopoden. (128. Diplopoden-Aufsatz). – Zoologisches Jahrbuch Abteilung für Systematik 68: 353-444.
- VERHOEFF, K.W. 1937 (496): Studien in Nordwestitalien 1929-1933. (129. Diplopoden-Aufsatz). – Zoologisches Jahrbuch Abteilung für Systematik 70: 87-170.
- VERHOEFF, K. W. 1940 (590): Über Diplopoden aus der Türkei I. – Revue de la Faculté des Sciences de l' Université d'Istanbul (B) 5: 1-49.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Kataloge der wissenschaftlichen Sammlungen des Naturhistorischen Museums in Wien](#)

Jahr/Year: 2002

Band/Volume: [16](#)

Autor(en)/Author(s): Wirkner Christian S., Stagl Verena, Turk Nadia

Artikel/Article: [Type specimens of the Chordeumatida in the Natural History Museum Vienna \(Diplopoda\). 1-31](#)