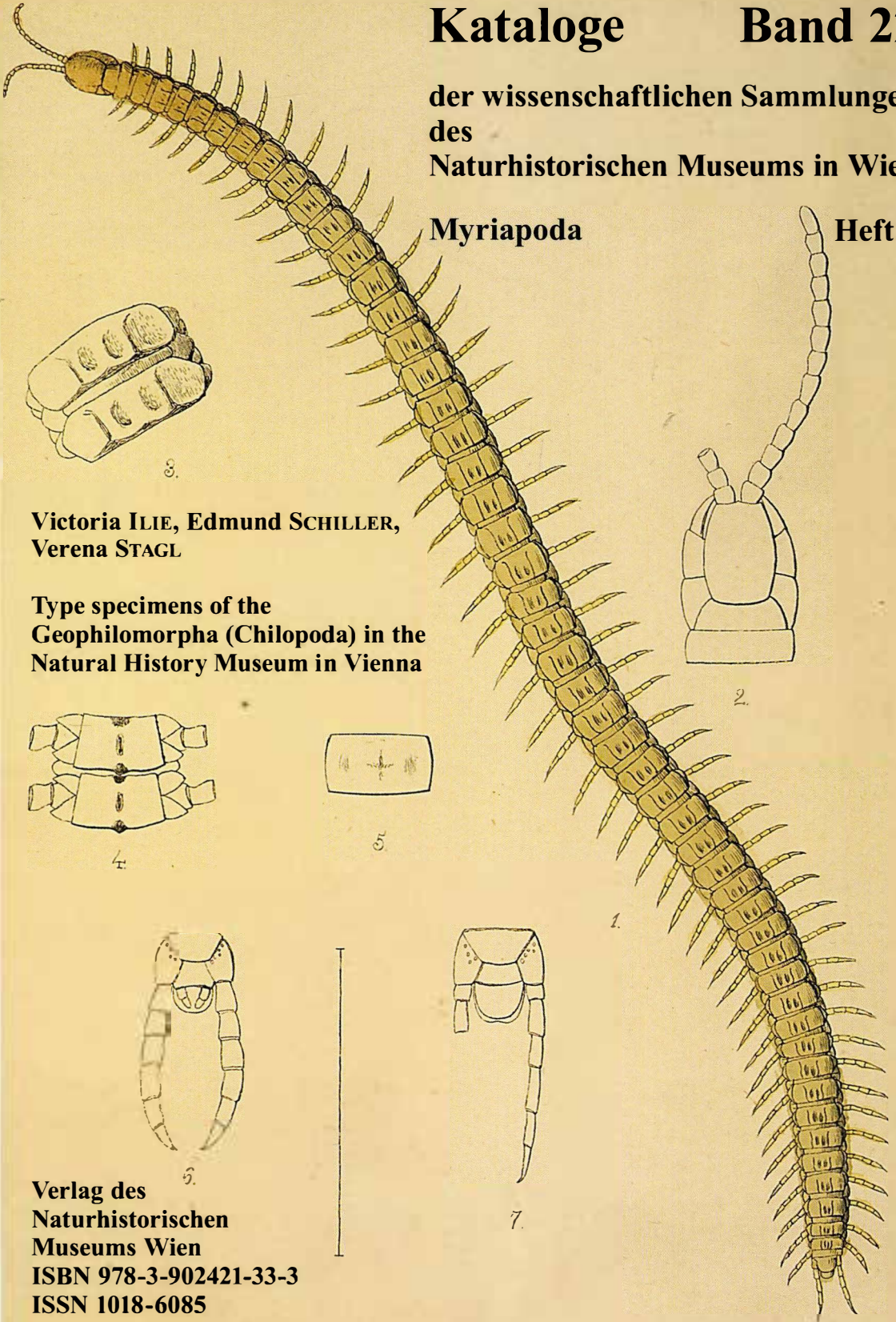


der wissenschaftlichen Sammlungen
des
Naturhistorischen Museums in Wien

Myriapoda

Heft 4



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Verena STAGL

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Kataloge Band 22

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Catalogue front cover: *Geophilus condylogaster* LATZEL, 1880 modified after BERLESE 1888

Type specimens of the Geophilomorpha (Chilopoda) in the Natural History Museum in Vienna

Victoria Ilie¹, Edmund Schiller², Verena Stagl³

Abstract

The present annotated type catalogue lists the type series of the Geophilomorpha (Chilopoda) collection housed in the Natural History Museum in Vienna (NHMW). Altogether, 191 types are registered, belonging to the families Ballophilidae, Dignathodontidae, Geophilidae, Gonibregmatidae, Himantariidae, Linotaeniidae, Mecistocephalidae, Oryidae and Schendylidae. This encompasses 164 species, 13 subspecies and 14 variations. The types were established by C. Attems (150), K. W. Verhoeff (17), R. Latzel (10), A. Sseliwanoff (3), two each by A. Humbert & H. de Saussure, L. Koch, L. P. Titova, and one each by H. W. Brolemann & H. Ribaud, O. F. Cook, L. J. Dobroruka, E. Haase and F. Silvestri. The type list, in alphabetical order, provides information on the category of types, the locality, number and sex of the specimens, and includes remarks on the current status, on the relevant literature, on taxonomic problems, on the history of acquisition and possible ambiguities in the identification.

Zusammenfassung

Der vorliegende kommentierte Typenkatalog erfasst die in der Myriapoden Sammlung des Naturhistorischen Museums in Wien (NHMW) vorhandenen Typenserien der Geophilomorpha (Chilopoda). Insgesamt 191 Typenserien sind aufgelistet, 164 Arten, 13 Unterarten und 14 Varietäten aus den Familien Ballophilidae, Dignathodontidae, Geophilidae, Gonibregmatidae, Himantariidae, Linotaeniidae, Mecistocephalidae, Oryidae und Schendylidae. Die Typen stammen von C. Attems (150), K. W. Verhoeff (17), R. Latzel (10), A. Sseliwanoff (3), A. Humbert & H. de Saussure (2), L. Koch (2), L. P. Titova (2), H. W. Brolemann & H. Ribaud (1), O. F. Cook (1), L. J. Dobroruka (1), E. Haase (1) und F. Silvestri (1). Die Liste, in alphabetischer Reihenfolge, beinhaltet nicht nur Informationen über die Typenkategorie, den Locus typicus, Geschlecht und Anzahl der Individuen, sondern informiert auch über die maßgebliche Literatur und die Akquisition der einzelnen Serien und kommentiert Unklarheiten in der Identifikation mancher Typenserien.

Introduction

In July 1960, Ralph E. Crabill, together with Richard L. Hoffman, visited the myriapod collection in the NHMW, eight years after Carl Attems' death. The collection's guestbook provided the information that Crabill was looking for chilopods and Hoffman for diplopods. Crabill fixed a note into the cupboard with the Geophilomorpha, which is still there:

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Please Note!

Included here, but unmarked as types, are numerous typical specimens. Before further curating, dissecting and loaning of material, it is most desirable to investigate status of such material. When body parts are not in bottles, check slide collection, where many will be found. Note too that most of the type microscope slides are not marked as such. Hence great caution is advised.

He left another note in the collection of the microscope slides:

Please Note!

Included are numerous types which are unmarked as such. Also included are numerous slides without paper labels, the pertinent information having been inscribed directly on the glass with pen and ink: extreme caution is urged in the handling of such slides. Finally, many syntypical series – without designated lectotypes – are included. Where mouthparts alone are represented, the remainders of the specimens should be sought in the alcoholic collection. The latter may or may not be designated as types.

Crabill's words perfectly summarize the difficulties we experienced in preparing the type catalogue 48 years later. During 1960–1967, he visited the museum in Vienna several times (March 1960, July 1960, July 1962, October 1963, July/August 1964, July 1966, December 1967), and borrowed material between 1960 and 1964. He published 6 papers with reference to Geophilomorpha of the collection (CRABILL 1962, 1964a, 1964b, 1964c, 1968b, 1969).

Undoubtedly, well-organized museum collections with published type catalogues are the most important prerequisites for systematic and taxonomic research. The Viennese myriapod collection is one of the most important worldwide. Carl Attems (1868–1952), who was active there for nearly 60 years, gave the collection its great significance (STROUHAL 1961, STAGL 2001, 2003). Today, recent publications highlight the museum's efforts to make the collection transparent for taxonomic and systematic research (WIRKNER et al. 2002, SCHILEYKO & STAGL 2004, STAGL & STOEV 2005, STAGL 2006, STAGL & ZAPPAROLI 2006).

The Geophilomorpha collection comprises approximately 2000 lots and a large number of micro-slides. The specimens originate from the original museum's collection, from Attems' private collection and from various acquisitions. The most significant are purchases, donations and exchanges by Robert Latzel (1884, 1919) and Karl W. Verhoeff (1896, 1897, 1899, 1908, 1909, 1935, 1940) (STAGL 2001, 2003, 2006). Concerning the museum's original collection, note that in 1866 the whole myriapod collection was sent to the specialists in Geneva, Aloys Humbert (1829–1887) and Henri de Saussure (1829–1905), by the curator Alois Rogenhofer (1831–1897). The two scientists examined the myriapods, described some new species and returned the collection in 1869.

The Geophilomorpha type collection

Altogether, 191 taxa are listed: 164 species, 13 subspecies and 14 variations belonging to the following families: Ballophilidae (10), Dignathodontidae (7), Geophilidae (97),

Gonibregmatidae (2), Himantariidae (14), Linotaeniidae (8), Mecistocephalidae (13), Oryidae (9), Schendylidae (31).

C. Attems provided 150 descriptions; most of the remaining ones are by K. W. Verhoeff (1867–1945) and R. Latzel (1845–1919), who described 17 and 10 taxa, respectively. 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".

R. Latzel differentiated only between species and variation; he accounts for 5 variations in the collection. Other authors were A. Sselivanoff (3 descriptions), A. Humbert & H. de Saussure, L. Koch, L. P. Titova (two each) and Henri W. Brolemann & H. Ribaud, O. F. Cook, L. J. Dobroruka, E. Haase, F. Silvestri (one each). On examining the museum's original collection, which was sent to Humbert & Saussure in 1866 (see above), Attems found 4 new Geophilomorpha species and described them (*Maoriella aucklandica*, *Nicopus chilensis*, *Novaralius edentatus*, *Geophilus felix*). Humbert & Saussure described 2 new species from the Viennese collection, published in 1870a, 1870b (*Chomatobius brasilianus*, *Notiphilus maximiliani*).

R. E. Crabill labelled lecto- and paralectotypes for 6 species, but he published only one of them (*Maoriella macrostigma* ATTEMES, 1903 in CRABILL 1964a), so the others are not valid. L.A. PEREIRA (1984) designated a lectotype for *Brachyschendyla pectinata* ATTEMES, 1934 and BONATO et al. 2007 for *Geophilus (Pachymerium) schauinslandi* ATTEMES, 1903. Another lectotype was designated for *Geophilus ormanyensis* ATTEMES, 1903 by BONATO & MINELLI, but this has not been published yet.

For the earlier specialists, the original designation is typically missing. The ICZN 1999, Art. 72.4.1.1., indicates "*For a nominal species or subspecies established before 2000, any evidence, published or unpublished, may be taken into account to determine what specimens constitute the type series*". We had to prove the type status by comparing the samples with the original descriptions and all available relevant documents like labels, the books of acquisitions and the inventory (see below), and "the Attems catalogue". The latter is a collection of index cards compiled by C. Attems, listing lots from different locations for every species in the NHMW collection and in his private collection. Typically, an index card for a particular species has columns for location, number of specimens, date of acquisition, names of collector, donor and determiner. His handwriting is often difficult to decipher; his labels always comprise detailed information except for the number of specimens.

We often encountered difficulties in identifying locality specifications because of obscure data (compare STAGL & ZAPPAROLI 2005). Latzel generally did not specify localities, either in the original descriptions or on his labels in the jars; he broadly summarized the localities, for instance "Österreichische Küstenlande, Kärnten, Niederösterreich". In 1884, Latzel sold a part of his collection to the museum; only the book of acquisitions contains detailed local information (STAGL 2006). The vials purchased from Verhoeff contain labels written in pencil by himself, mostly providing only global locality data, like "South Italy".

In October 1976, 27 alcohol series, containing 19 (sub)species of Geophilomorpha, together with 96 microscope slides, were lent to a specialist at the Zoological Institute

in Hamburg. In 1995 (!) she returned 91 slides, but not the vials. Despite great efforts of the NHMW curator (Verena Stagl), it was impossible to get back the loan. We therefore assume it has been damaged or lost. This tellingly illustrates the problematic aspects of lending scientific material from the collection. Thus, the following series, which most probably represented type material, are now missing:

- Geophilus gavoyi* CHALANDE, 1910 (2 specimens from Saint-Béat, Haute-Garonne, were donated to NHMW by Brolemann on 18 July 1913)
Geophilus pygmaeus LATZEL, 1880 (2 syntypes from "Kärnten")
Geophilus pyrenaicus CHALANDE, 1909 (5 specimens from Midi-Pyrénées, Ariège, Aulus, were donated to NHMW by Brolemann on 18 July 1913)
Orinomus oligopus ATTEMS, 1895 (an adult and a juvenile syntype)
Geophilus flavidus polytrichus ATTEMS, 1903 (our collection is missing the holotype)
Geophilus sodalis BERGSØE & MEINERT, 1866
 (in 1880 Schiodte & Meinert donated 3 females to NHMW)
Geophilus truncorum BERGSØE & MEINERT, 1866
 (in 1880 Schiodte & Meinert donated 4 females to NHMW).

Details on the type list

Types are arranged alphabetically according to their (sub)specific names, followed by a reference to the original publication, including exact pages containing the description and the figure numbers when illustrated.

Current status indicates the present systematic position of the respective taxon with additional references when it has changed recently.

Family attribution according to the current status.

Type material specifies the type category (holo-, para-, syntype, or lecto- and paralectotypes) and the number and sex of the specimens: ♂♂/♀♀, juveniles (juv.). The term "holotype" is used only in those cases when the author indicates only one specimen at his disposal; otherwise we use the term "syntype". Different type series are headed with a), b), c), and separated by a semicolon (;). Specimens are mounted on slides if indicated; otherwise they are preserved in 75 % ethanol. For dissected animals we name the available parts (see list of abbreviations). All animals are in good condition unless termed defective or dissected.

Type locality: All country names and most of the more detailed location names are given in English. However, if it was impossible to unambiguously localise a specific site using Stielers Hand-Atlas 1906, The Times comprehensive Atlas of the World 2002 or Global Gazetteer Version 2.1, the name of the location is given in quotation marks as labelled originally. We add quotation marks as well to geographic names which are either historical (e.g. "Annam", "Cochinchina" for a historic region of SE-Asia) or presently spelled differently (e.g. "Medjez el Bab"/Majaz al-Bab) or lack unambiguous translation (e.g. "Hellas"/Greece, "Capland"/RSA). The collector's and donor's name are presented in square brackets, together with dates if noted. Only the localities of the types stored in the NHMW are mentioned.

Inventory number: Every series (vials and micro-slides) is annotated with an inventory number of the NHMW. Some lots of the museum's collection, not of Attems' private collection, are also supplemented (in square brackets) by numbers of the acquisition from the book of acquisitions. It dates back to 1806, containing the information about the collector, the donor and geographical details. In it, specimens often are not determined professionally but merely assigned a common name like "*Geophilus*" or an unpublished manuscript name. Acquisition numbers are composed of three parts, separated by dots: year. donation (Roman numeral). consecutive number (Arabic numeral).

Notes: If it is necessary to give additional information on attributes of a sample, on unpublished results of reviews, about other syntypes in published type catalogues etc.

Abbreviations:

♂/♂♂	male/males	Md	mandibula(e)
♀/♀♀	female/females	Mx	maxilla(e)
coll.	collected by	NHMW	Natural History Museum in Vienna, this abbreviation is used as a prefix for inventory numbers
don.	donated by		
ind.	individual	RSA	Republic of South Africa
in prep.	in preparation	ZMB	Berlin Zoological Museum (Germany)
juv.	juveniles, immature(s)	ZMH	Hamburg Zoological Museum (Germany)

Catalogue of the type specimens

***abbreviatus* VERHOEFF**

Geophilus linearis abbreviatus VERHOEFF, 1925: 74

Current status: junior synonym of *Stenotaenia sorrentina* (ATTEMS, 1903) according to BONATO & MINELLI 2008: 275

Family: Geophilidae

Type material: 2 ♀♀ (probably syntypes)

Type locality: South of Italy [don. K.W. Verhoeff July 1940, by purchase]

Inventory number: 312

Notes: For the NHMW species, the exact specification of the locality in Italy is missing; according to the literature, the type localities are "Corpo di Cava, sorrentinische Halbinsel" (♂, ♀) and "Ferrania, Ligurien" (♀). The type catalogue of the ZMB, MORITZ & FISCHER 1979: 337 listed 1 ♂ of uncertain type status, due to missing information on the time of collection or purchase. The syntype females are probably stored in the NHMW, the male is in ZMB.

***affinis* SSELIWANOFF**

Bothriogaster affinis SSELIWANOFF, 1879: 621

Current status: junior synonym of *Bothriogaster signata* (KESSLER, 1874), according to MINELLI & BONATO in prep.

Family: Himantariidae

Type material: 1 ♂, complete with 101 pairs of legs (syntype)

Type locality: Russia, Sarepta [coll. A. Sseliwanoff, don. R. Latzel 1919]

Inventory number: 120 [Acquisition 1919.]

Notes: Latzel received the specimen from A. Sseliwanoff.

***africana* ATTEMS**

Himantarium hispanicum var. *africana* ATTEMS, 1899: 292, pl. 14 figs 1-2

Current status: junior synonym of *Himantarium mediterraneum* MEINERT, 1870, see MINELLI & BONATO in prep.

Family: Himantariidae

Type material: 2 slides (head, Mx, ♂ posterior body; Mx, body segments), see "Notes" (syntypes)

Type locality: Tunisia, Majaz al-Bab "Medjez el Bab"

Inventory number: 7096

Notes: In Attems' catalogue the name of the (sub)species was put in parentheses later and he added "*Pseudohimantarium mediterraneum*" (according to CHALANDE & RIBAUT 1909), obviously due to his studies of ATTEMS 1929a: 33. The latter is the only name on the label of both slides in question, along with "Medjez el Bab". In his catalogue this locality is listed first. Therefore, although the slides are not labelled "*Himantarium hispanicum africana*", we believe them to be type material.

***agrestis* ATTEMS**

Brachygeophilus agrestis ATTEMS, 1947: 61, pl. V figs 34-35

Current status: possibly valid as *Taiyuna agrestis* (ATTEMS, 1947) according to FODDAI et al. 2000: 100

Family: Geophilidae

Type material: 1 ♂ complete, 1 ♀, 1 slide (damaged – posterior part of the body, head, Mx) (syntypes)

Type locality: Costa Rica, La Caja / San José [coll. J. Schmidt 1931, don. Austrian Costa Rica Expedition 1930]

Inventory number: 266

***agricola* ATTEMS**

Mecistocephalus agricola ATTEMS, 1900a: 307

Current status: junior synonym of *Gnathoribautia bonensis* (MEINERT, 1870), see ATTEMS 1929a: 307; same status in MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♂, complete (type status: holotype, see "Notes")

Type locality: Tunisia, Majaz al-Bab "Medjez el Bab"

Inventory number: 7040

Notes: There are two ♂♂ in the vial, but in Attems' first description of this species he registered only one ♂ from Medjez el Bab near Tunis, collected in April. In his catalogue he noted "♂, ♀"; neither vial nor catalogue card were labelled as type.

When examining the old museum collection, Attems had labelled another specimen, collected by the Austrian salesman Franz Grohmann in Sicily 1834, as "*Mecistocephalus agricola* Type"(NHMW 419). He added the same remark on his catalogue. The specimen was labelled earlier, in 1866, by Humbert & Saussure (see Introduction) as *Mecistocephalus punctilabium* NEWPORT, 1843.

In 1929: 307 Attems stated *M. agricola* as a junior synonym of *Gnathoribautia bonensis* (MEINERT, 1870).

albanensis ATTEMS

Simophilus albanensis ATTEMS, 1929b: 333, pl. VII figs 1-4

Current status: junior synonym of *Stenotaenia antecribellata* (VERHOEFF, 1898), see BONATO & MINELLI 2008: 259

Family: Geophilidae

Type material: 2 ♂♂, one without head, 1 slide (head) (syntypes)

Type locality: border of Serbia/Macedonia, Šar planina mountain range, Ljuboten mountain, top beech forest "Ljubeten, oberer Buchenwald" [coll. C. Attems 1906]

Inventory number: 314

alokosternum ATTEMS

Scolioplanes alokosternum ATTEMS, 1927: 294

Current status: valid under *Strigamia* GRAY, 1843, see SHINOHARA K. 1981: 43

Family: Linotaeniidae

Type material: a) 1 ♂ (body), 1 slide (head, mouthparts); b) 1 ♀, 1 slide (posterior part of the body, head and mouthparts); (syntypes)

Type locality: Japan, Suruga Yamanaka "unter Ahornmull" [coll. H. Sauter 22 March 1905]; b) Japan, Bukenji "unter Laub" [coll. H. Sauter 23 November 1905]

Inventory number: a) 397; b) 398

Notes: Crabill designated mistakenly a) as a holotype and b) as a paratype.

***alzonis* ATTEMS**

Geophilus alzonis ATTEMS, 1952a: 336, figs 8-11

Current status: valid species according to MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♂ complete, 2 ♀♀, 1 slide (one body, two heads) (syntypes)

Type locality: Spain, Monte Alzo near Tolosa [coll. don. H. Franz 1951]

Inventory number: 4872

***anepipe* VERHOEFF**

Tygarrip anepipe VERHOEFF, 1939b: 88, figs 8-9

Current status: species whose status has never been revised since its original description

Family: Mecistocephalidae

Type material: 1 ♀ (syntype)

Type locality: Mauritius [coll. R.F. Lawrence between 1935 and 1939, don. K. W. Verhoeff April 1940]

Inventory number: 231

Notes: another ♀ is stored in the ZMB (MORITZ & FISCHER 1979: 338).

***angustum* LATZEL**

Himantarium dimidiatum var. *angustum* LATZEL, 1886: 173

Current status: *Haplophilus dimidiatus* (MEINERT, 1870) according to MINELLI & BONATO in prep.

Family: Himantariidae

Type material: 3 ♀♀, 1 juvenile (complete) (syntypes)

Type locality: Algeria, Oran [coll. F. Lemoine, don R. Latzel 1919]

Inventory number: 90

***annamiticus* ATTEMS**

Nesogeophilus annamiticus ATTEMS 1938a: 332, figs 301-305

Current status: The valid name for *Nesogeophilus* VERHOEFF, 1924 is *Tuoba* CHAMBERLIN, 1920, see CRABILL 1968a

Family: Geophilidae

Type material: 1 ♂, head on a slide (holotype)

Type locality: Vietnam "Annam-S", Nha trang, Cau da [coll. don. C. Dawydoff]

Inventory number: 4828

***apora* ATTEMS**

Polygonarea apora ATTEMS, 1909a: 25, pl. I figs 14-20

Current status: valid as *Brachygonarea apora* (ATTEMS, 1909)

Family: Geophilidae

Type material: a) 1 ind. defective, 1 slide (head, body in 2 fragments); b) 3 ♀♀, 1 ♀ dissected, 1 slide (head defective); (syntypes)

Type locality: RSA, Namaqua district, Steinkopf [coll. L. Schultze 1903-05]

Inventory number: a) 7006; b) 7046

Notes: Crabill labelled the slide (7006) "lectotype", but never published it. Ten more syntypes are stored in the ZMB (MORITZ & FISCHER 1979: 338).

***aporopus* ATTEMS**

Eurytion aporopus ATTEMS, 1922: 99, fig. 1

Current status: valid as *Hapleurytion aporopus* (ATTEMS, 1922), see BONATO et al. 2007

Family: Geophilidae

Type material: a) 1 ♀ (three parts); b) two tubes: 2 ♂♂ dissected (no heads), 1 ind. dissected (no head, no posterior part); 1 slide (head, Mx, half part of the body); 1 slide (head, Mx), prepared by Crabill, without location, but labelled syntype; (syntypes)

Type locality: Namibia: a) Okahandja [coll. W. Michaelsen 28 April 1911]; b) Farm Voigtsland 32 km E of Windhoek [coll. W. Michaelsen 28 May 1911]

Inventory number: a) 7034; b) 7035

Notes: concerning b): Attems labelled the tube "Farm Voigtsland an den Bismarckbergen" and confirmed this location in 1922: 98 in a summarised list. On page 99 he described the new species with locations Okahanja and "Farm Paulinenhof an den Bismarckbergen", obviously by mistake.

***aporus* ATTEMS**

Geoporophilus aporus ATTEMS, 1930b: 187, figs 122-126

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: 1 ♀ dissected, 1 slide (labrum, Mx, part of the body), head and remaining mouthparts missing (holotype)

Type locality: Indonesia, Sumatra, area of Lake Toba, at a brook near Balige [coll. A. Thienemann 5 April 1929]

Inventory number: 7058

***ariadnae* ATTEMS**

Nannophilus ariadnae ATTEMS, 1902: 578, Taf. I figs 3-6

Current status: valid species according to MINELLI & BONATO in prep.

Family: Schendylidae

Type material: a) 1 ♂ complete; b) 1 ♂ complete; (syntypes)

Type locality: Greece: a) Korfu "Eichenhain vor Pelleka"; b) Crete, Murnies [coll. C. Attems: a) 7 April 1900; b) 5 May 1900]

Inventory number: a) 4918; b) 4919

***armata* VERHOEFF**

Taschkentia armata VERHOEFF 1930: 253, figs 12-15

Current status: according to CRABILL 1962: 509 it is a junior synonym of *Taschkentia parthorum* (POCOCK, 1891)

Family: Geophilidae

Type material: 1 ♀ complete (syntype)

Type locality: "Turkestan" [don. K.W. Verhoeff July 1940]

Inventory number: 334

Notes: although being labelled only "Turkestan", our material most likely belongs to the type series comprising 7 specimens collected from Uzbekistan, near the railway station Vrevskaja, 50 km SW of Taschkent, collected by A. Zachvatkin.

***asiaticus* VERHOEFF**

Tygarrup asiaticus VERHOEFF, 1930: 260, figs 20-21

Current status: junior synonym of *Krateraspis meinerti* (SSELIWANOFF, 1881) according to TITOVA 1975: 39

Family: Mecistocephalidae

Type material: 1 ♂ complete (syntype)

Type locality: Uzbekistan, Tashkent "Taschkent" [coll. A. Zachvatkin, don. K.W. Verhoeff July 1940]

Inventory number: 230

Notes: another syntype is stored in the ZMB (MORITZ & FISCHER 1979: 338).

***aucklandica* ATTEMS**

Maoriella aucklandica ATTEMS, 1903: 285

Current status: valid species according to ARCHEY 1936: 59

Family: Geophilidae

Type material: 1 ♀, dissected by R.E. Crabill on four slides (Mx, Md; fragment of the body; posterior part; head, forcipulae) (holotype)

Type locality: New Zealand, Auckland, Bay of Islands [coll. Novara Expedition 1858]

Inventory number: 332 [Acquisition 1866.I.9.]

austriacus LATZEL

Geophilus longicornis var. *austriacus* LATZEL, 1880: 182

Current status: junior synonym of *Geophilus flavus* (DE GEER 1778), see MINELLI 1992: 167

Family: Geophilidae

Type material: 4 ♂♂, 8 ♀♀, 3 slides (head, Mx, forcipulae; fragments of a female body; 1 ♂ complete) (syntypes)

Type locality: Austria: Lower Austria, Gaisberg; Czech Republic: Náchod "Böhmen"; Blansko "Mähren" [coll. don. R. Latzel]

Inventory number: 257 [Acquisition 1884.I.37]

badiceps ATTEMS

Eurytion badiceps ATTEMS, 1909a: 32, pl. I figs 24-25, pl. II figs 26-31

Current status: valid as *Plateurytion badiceps* (ATTEMS, 1909), see BONATO et al. 2007

Family: Geophilidae

Type material: a) 2 ♂♂, 3 ♀♀ complete, 5 slides (head, Mx; body with forcipulae defective; head; half body posterior part ♀?; head, Mx, Md); b) 1 slide (head, Md, Mx, no body); (syntypes)

Type locality: RSA, Namaqualand: a) Kamaggas; b) Steinkopf [coll. L. Schultze 1903-05]

Inventory number: a) 7038; b) 7067

Notes: syntypes from both localities are stored in the ZMB (MORITZ & FISCHER 1979: 339) as well.

biconica ATTEMS

Henia biconica ATTEMS, 1903: 278, pl. 16 fig. 54

Current status: junior synonym of *Henia athenarum* POCOCK, 1891 according to MINELLI 1982: 257

Family: Dignathodontidae

Type material: 1 ♂, 1 ♀, 2 juv., 1 ind. without posterior part of the body, 1 slide with posterior part (♂) (syntypes)

Type locality: Greece "Hellas" [don. F. Steindachner]

Inventory number: 338 [Acquisition 1883.I.20.]

***bipora* ATTEMS**

Alloschizotaenia bipora ATTEMS, 1952c: 128, figs 208-212

Current status: valid species

Family: Geophilidae

Type material: 9 ♂♂, 5 ♀♀, 1 juv., 1 slide (1 ind., parts) (syntypes)

Type locality: Ruanda, foret de Rugege (2400m) [coll. N. Leleup February 1951, don. Congo Museum]

Inventory number: 7049

***bohlsi* ATTEMS**

Orphnaeus bohlsi ATTEMS, 1903: 203

Current status: ATTEMS 1947: 93 confirmed the validity of the species

Family: Oryidae

Type material: 1 ♀ (holotype?, see Notes)

Type locality: Paraguay [coll. J. Bohls]

Inventory number: 4924

Notes: only 1 ♀ with 81 pairs of legs is in the tube, contrary to the original description of Attems, referring to 1 ♂ with 113 pairs of legs.

***borealis* ATTEMS**

Brachygonarea borealis ATTEMS, 1934a: 314, fig. 7

Current status: doubtful, no revision since the first publication (see Notes)

Family: Geophilidae

Type material: 1 ♀ dissected, 1 slide (head, Mx, Md) (holotype)

Type locality: USA, Washington State, Puget Sound, Port Ludlow

Inventory number: 7050

Notes: R. Crabill revised the material 12.07.1960 and added a note to it: "It is not *Brachygonarea*. It is *Arctogeophilus*; one of the west. N Amer. species. See also slide".

***brasilianus* HUMBERT & SAUSSURE**

Chomatobius brasilianus HUMBERT & SAUSSURE 1870b: 205

Current status: *Orphnaeus brasilianus* (HUMBERT & SAUSSURE, 1870), see ATTEMS 1947: 93, FODDAI et al. 2002

Family: Oryidae

Type material: 1 ♂ dissected, 1 slide prepared by Attems (head, Mx, Md) (holotype)

Type locality: Brasilia, Rio Negro [coll. Johann Natterer 1829-31]

Inventory number: 7081 [Acquisition 1866.I.234]

Notes: In the NHMW's volume of the Rev. et Mag. de Zoologie 1870, old pencil notes confirm the origin of the described species: "Mus. Vienne" (HUMBERT & SAUSSURE 1870b). The headline "Description de divers Myriapodes nouveaux du musée de Vienne" is missing, contrary to HUMBERT & SAUSSURE 1870a. The locality of the described specimen is stated in the book of acquisition as Rio Negro, but is not mentioned in the publication or in the lists of Humbert & Saussure attached to the book of acquisition (see Introduction). Another sample (NHMW 7082), collected by Natterer as well, is registered in the book of acquisition under the number 179b as "Geophilus, Brasilia" and was later identified by Attems as *Orphnaeus brasilianus*.

caledonica ATTEMS

Mesoschendyla caledonica ATTEMS, 1928b: 129, figs 35-38, pl. XIX figs 457-460

Current status: *Schendylops caledonicus* (ATTEMS, 1928) according to PEREIRA & MINELLI 2001: 22

Family: Schendylidae

Type material: 2 ♂♂ complete, 2 slides (1 ♂ body; head, labrum, Mx) (syntypes)

Type locality: South Africa, Cape, Caledon, Venster Ravine [don. South African Museum]

Inventory number: 4847

capense ATTEMS

Pachymerium capense ATTEMS, 1947: 66, pl. VII figs 47-48

Current status: species whose status has never been revised since its original description; only Crabill labelled the sample and slide as lectotype, but never published the lectotype; he added another label to the sample: "*Pachymerium capense* Att. (= *Eurytion dentatus* Att.) / compared with lectotype"

Family: Geophilidae

Type material: 1 dissected ♀, 1 slide (head, Mx) (syntype)

Type locality: South Africa, Cape Province "Kapland" [don. Museum Cape-town (B988) 1928]

Inventory number: 7088

carinthiacus LATZEL

Clinopodes flavidus var. *carinthiacus* LATZEL, 1880: 178

Current status: junior synonym of *Clinopodes trebevicensis* (VERHOEFF, 1898) according to BONATO & MINELLI in prep.; WÜRMLI 1972: 3 listed the variation under *Clinopodes flavidus* KOCH, 1847

Family: Geophilidae

Type material: 1 ♀ complete (holotype)

Type locality: Austria, Carinthia [coll. don. R. Latzel]

Inventory number: 300

Notes: There are 3 ♀♀ and 1 ♂ more in the vial. Latzel donated to the museum two different series in one vial and labelled them as *Clinopodes flavidus carinthiacus* Kärnten / Bosnien. According to his paper he described the ssp. based on only one ♀.

***caucasicus* ATTEMS**

Geophilus (Pachymerium) caucasicus ATTEMS, 1903: 256

Current status: junior synonym of *Pachymerium atticum* (VERHOEFF, 1901), MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 3 tubes: 2 half bodies (1 ♂, 1 specimen); 1 ind. (dissected); 1 ind. macerated, no head; 2 slides prepared by Crabill (anterior and posterior part of a ♂; head, Mx, Md); 1 slide prepared by Attems (head) (syntypes)

Type locality: Azerbaijan, Lankaran "Kaukasus, Lenkoran" [coll. probably H. Leder between 1875 and 1888, collection of the "Hofmuseum"]

Inventory number: 414

***caucasicus* SSELIWANOFF**

Geophilus caucasicus SSELIWANOFF, 1884: 85

Current status: the status of this species has never been revised since the original description; only Attems labelled the lot as "*Clinopodes flavidus polytrichus* Att" but did not mention the species in 1929a

Family: Geophilidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Azerbaijan: Sheki "Saki"; Georgia: Gudaur "Gudaure", [don. A. Sseliwanoff to R. Latzel, who donated the specimens to the museum in 1919]

Inventory number: 301 [Acquisition 1919.]

Notes: specimens from both localities (Saki & Gudaure) are mixed together.

***chilensis* ATTEMS**

Nicopus chilensis ATTEMS, 1947: 60, pl. V figs 32-33

Current status: the status of this species has never been revised since the original description

Family: Geophilidae

Type material: 1 ♀ dissected, 1 slide (head, Mx, prepared by Crabill) (syntype)

Type locality: Chile [coll. Novara Expedition 1857-59]

Inventory number: 324 [Acquisition 1866.I.]

cilicius ATTEMS

Thracophilus cilicius ATTEMS, 1947: 67, pl. II figs 1-5

Current status: valid species, see ZAPPAROLI 1999

Family: Himantariidae

Type material: 1 ♀ (dissected), 1 slide (head, body segments) (holotype)

Type locality: Turkey, "Cilicischer Taurus" [don. Museum Basel 1943]

Inventory number: 4852

circula ATTEMS

Chaetechelyne circula ATTEMS, 1903: 280

Current status: *Henia* (*Chaetechelyne*) *circula* (ATTEMS, 1903), see MINELLI 1982

Family: Dignathodontidae

Type material: 1 ♂, without posterior body part (holotype)

Type locality: Tunisia, Majaz al-Bab "Medjez el Bab"

Inventory number: 4856

compactus ATTEMS

Brachygeophilus compactus ATTEMS, 1934a: 313, fig. 6

Current status: species whose status has never been revised since its original description, the valid name for the genus *Brachygeophilus* BRÖLEMANN, 1909 is *Geophilus* LEACH, 1814, see FODDAI et al. 1995

Family: Geophilidae

Type material: a) 1 ♀, 1 slide (head, Mx, Md); b) 1 ♀; (syntypes)

Type locality: USA, Washington State: a) Puget Sound, Port Blakely; b) Puget Sound, Tacoma [don. Museum Hamburg]

Inventory number: a) 4863; b) 4864

compositor ATTEMS

Ribautia compositor ATTEMS, 1952c: 125, figs 205-207

Current status: valid species, see DEMANGE 1963: 71

Family: Geophilidae

Type material: 1 ♂ in vial + 1 slide (head, Mx) (syntype)

Type locality: Congo, Province du Nord-Kivu, Rutshuru [coll. Ghesquière May 1937, don. königliches Museum des Belgischen Kongo 1950]

Inventory number: 7016

***condylogaster* LATZEL**

Geophilus condylogaster LATZEL, 1880: 178

Current status: junior synonym of *Geophilus carpophagus* LEACH, 1815, see MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♀, head is missing (holotype)

Type locality: "Österreichische Küstenlande" [don. E. Schreiber to R. Latzel; don. R. Latzel 1919]

Inventory number: 7098 [Acquisition 1919.]

Notes: the holotype was labelled "*G. condylogaster* Latzel/Küstenland/1919 don. Latzel" by Attems, it was stored in sample NHMW 236 together with a male non-type "*G. carpophagus*" from "Österreichische Küstenlande" donated by Latzel 1919.

***conifera* ATTEMS**

Polygonarea repanda conifera ATTEMS, 1911b: 165, fig. 19

Current status: valid as *Ribautia conifera* (ATTEMS, 1911)

Family: Geophilidae

Type material: a) & b) 1 individual, each dissected; c) 1 ♀; d) 1 dissected ♀, 1 slide (head, Md, Mx); 2 slides without data on location (each: two parts of the body, head) prepared by Crabill, labelled as syntypes; (syntypes)

Type locality: Australia, State of Western Australia [coll. W. Michaelsen]:

a) Bridgetown; b) & d) Broomehill; c) Dongara

Inventory number: a) 7012; b) 7013; c) 7014; d) 7015

Notes: ATTEMS 1911b did not specify a subspecies *P. repanda repanda* but only *P. r. multipes* and *P. r. conifera*. See Notes at "*repanda*". Syntypes from Yalgoo, Brunswick and Broomhill are stored in the ZMB (MORITZ & FISCHER 1979: 340). Syntypes from York, Cranbrook, Mundijong, Dongara are preserved at ZMH (WEIDNER 1960: 63).

***conjungens* ATTEMS**

Geoperingueyia conjungens ATTEMS, 1928b: 150, pl. XIX figs 472-476

Current status: valid species, see PEREIRA 1981: 12

Family: Geophilidae

Type material: 1 ♀, 1 slide (head, Mx, Md) (syntype)

Type locality: Republic of South Africa, KwaZulu - Natal, Kranskop [don. South African Museum (B3387)]

Inventory number: 7022

***conspicuus* ATTEMS**

Mecistocephalus conspicuus ATTEMS, 1938a: 327, figs 287-292

Current status: species whose status has never been revised since its original description

Family: Mecistocephalidae

Type material: 1 ♀ (syntype)

Type locality: Vietnam, Poulo Dama islands "Golf von Siam" [coll. Dawydoff 24 November 1931]

Inventory number: 7041

Notes: there is another slide in the collection (head, Mx, Md), labelled by Attems "Cauda, Annam Dawydoff" – Cauda is not the type locality.

***cordobanensis* VERHOEFF**

Lestophilus cordobanensis VERHOEFF 1934: 24

Current status: valid under *Polycricus* SAUSSURE & HUMBERT, 1872 according to FODDAI et al. 2000: 88

Family: Geophilidae

Type material: 1 ♀, 1 juvenile (syntypes)

Type locality: Mexico, near Cordoba [coll. Dr. Storkán 18 November 1927, don. K.W. Verhoeff July 1940]

Inventory number: 421

Notes: the material is only labelled "Mexico" like the syntypes stored in the ZMB (MORITZ & FISCHER 1979: 340).

***corralinus* ATTEMS**

Geophilus (Pachymerium) corralinus ATTEMS, 1903: 253, pl. 14 figs 33-38

Current status: *Chilenophilus corralinus* (ATTEMS, 1903) see ATTEMS 1929a: 282

Family: Geophilidae

Type material: a) two tubes: 1: head, forcipulae and approximately last 10 segments ♂, 2: body; b) 1 ind. dissected (forcipulae, Mx, Md, body parts with no posterior body); c) 6 slides prepared and labelled by Crabill, without data on the location: two slides labelled "Syntype B" (head; body fragments); one slide labelled "remounted from Attems' original slide" (Mx, Md); three slides labelled "Syntype" (posterior part female; head, Mx, Md; fragment of a body)

Type locality: South America, Chile: a) Valdivia, Estancilla [coll. W. Michaelsen 1892-93]; b) Corral [coll. L. Plate October 1894, don. L. Plate]

Inventory number: a) 6139; b) 6140

Notes: revised by Ralph E. Crabill, who prepared the micro slide. Two further female syntypes from Corral, collected by Ludwig Plate, are stored in the ZMB (MORITZ & FISCHER 1979: 341) and syntypes (incorrectly indicated as holotype and paratypoid) from Corral, Valparaiso and Valdivia are preserved in the ZMH (WEIDNER 1960: 62).

crassignathus TITOVA

Tygarrup crassignathus TITOVA, 1983: 149, figs 5-8

Current status: valid species

Family: Mecistocephalidae

Type material: 1 ♂ midbody in tube, rest on one slide (holotype)

Type locality: Cambodia [coll. C. Dawydoff 1939]

Inventory number: 1655

Notes: samples of *Mecistocephalus insularis* (LUCAS, 1863) of the NHMW collection, determined by Attems, were sent to L. Titova in 1982. She described two new species, *Tygarrup triporus* TITOVA, 1983 and *Tygarrup crassignathus* TITOVA, 1983 among the material and supplemented the descriptions of *T. javanicus* ATTEMS, 1929 and *Tygarrup singaporiensis* VERHOEFF, 1937 (TITOVA 1983: 148).

cribellatum ATTEMS

Philacroterium cribellatum ATTEMS, 1928b: 183, figs 70-75

Current status: valid species whose status has never been revised since its original description, VERHOEFF 1937: 96 assigned the species to the genus *Aphilodon* SILVESTRI, 1898

Family: Geophilidae

Type material: a) 1 ♂ complete; b) 2 slides (Mx, Md; head); (syntypes)

Type locality: RSA, Cape Province: a) Cape Peninsula [don. South African Museum (23354)]; b) Houw Hoek [don. South African Museum (7617)]

Inventory number: a) 7044; b) 7086

cribrifera VERHOEFF

Mesoschendyla cribrifera VERHOEFF, 1937: 112, pl. IX figs 1-3

Current status: valid species, see CRABILL 1968b: 288

Family: Schendylidae

Type material: 1 ♂ (syntype)

Type locality: South Africa "Capland" [don. K.W. Verhoeff April 1940]

Inventory number: 153

Notes: a ♀ syntype is stored at the ZMB (MORITZ & FISCHER 1979: 341).

crinita ATTEMS

Henia crinita ATTEMS, 1903: 277

Current status: valid species, see MINELLI & BONATO in prep.

Family: Dignathodontidae

Type material: a) 1 ♂, 1 ♀; b) 1 ♀; (syntypes)

Type locality: a) Bosnia, Nemila; b) Slovenia, Podgorje; [coll. C. Attems a) July 1902; b) 27 April 1895]

Inventory number: a) 4848; b) 4849

crinitus ATTEMS

Scolioptanes crinitus ATTEMS, 1929a: 363

Current status: *Strigamia crinita* (ATTEMS, 1929), see MATIC 1972: 154

Family: Linotaeniidae

Type material: 1 ♂, 2 ♀♀, 1 specimen dissected, 2 slides (one ind., defective, prepared by Attems; ♀ prepared by Crabill July 1960) (syntypes)

Type locality: Romania, "Siebenbürgen", Retezat Mountains, Gura Zlata [coll. don. A. Penther]

Inventory number: 399

Notes: Crabill signed the slide prepared by Attems as lectotype and the other, prepared by himself, as paratype, but he never published them.

cyclareata ATTEMS

Sogona cyclareata ATTEMS, 1947: 53, pl. III figs 14-16

Current status: obviously a valid species, whose status has never been revised since its original description

Family: Geophilidae

Type material: 1 dissected ♀: forcipulae and posterior body in alcohol, head, Mx prepared on a slide (defective) (syntype)

Type locality: Brazil, Province Rio Grande do Sul, Santa Cruz [coll. Stieglmaier 1894]

Inventory number: 436

Notes: R.E. Crabill, July 1962 (unpublished), reviewed the specimen and labelled: "specimen is a *Schendylurus* close or synonym of *verhoeffi*".

***dalmatica* ATTEMS**

Schendyla mediterranea dalmatica ATTEMS, 1904a: 180, pl. IX figs 2-3

Current status: as *Schendyla (Echynoschendyla) dalmatica* ATTEMS, 1904 verified by ATTEMS 1947: 83, but *Echinoschendyla* is not a valid subgenus now, see MINELLI & BONATO in prep.

Family: Schendylidae

Type material: 19 specimens, 1 slide (1 ♂, body, head) (syntypes)

Type locality: Montenegro, Hercegnovi "Dalmatia, Castelnuovo"[coll. don. K. Holdhaus 1902]

Inventory number: 4784 [Acquisition 1902.II.]

***dampfii* VERHOEFF**

Schendylunguis dampfi VERHOEFF 1926: 103, figs 9-14

Current status: valid under *Nyctunguis* CHAMBERLIN 1914, see CHAMBERLIN 1962: 135

Family: Schendylidae

Type material: 1 ♀ (syntype)

Type locality: Mexico, Mexico City, Desierto de los Leones [coll. Prof. A. Dampf 23 September 1923, don K.W. Verhoeff]

Inventory number: 152

Notes: two individuals are stored at the ZMB (MORITZ & FISCHER 1979: 341).

***dentatus* ATTEMS**

Eurytion dentatus ATTEMS, 1909a: 31, pl. II figs 38-41

Current status: valid as *Plateurytion dentatus*, see BONATO et al. 2007

Family: Geophilidae

Type material: a) 1 ♀ dissected by E. Crabill (syntype), 1 slide containing clypeus+labrum, Mx, Md; b) 1 slide with head, Mx, Md

Type locality: RSA, Namaqualand [coll. L. Schultze 1903-05]: a) Steinkopf; b) Kamaggas

Inventory number: a) 7007; b) 7071

Notes: 1 ♂ from Kamaggas and 1 ♀ from Steinkopf are stored at the ZMB (MORITZ & FISCHER 1979: 341).

***deserticola* ATTEMS**

Diporocyclus deserticola ATTEMS, 1951: 395, figs 3-8

Current status: species whose status has never been revised since its original description

Family: Himantariidae

Type material: 1 ♀ - body fragments, 2 slides (body fragments; head, Md, Mx) (holotype)

Type locality: Iran, Steppe near Lahidshan [coll. don. H. Löffler 1949/50]

Inventory number: 4885

***diversa* ATTEMS**

Ribautia diversa ATTEMS, 1952c: 122, figs 197-200

Current status: valid species, see DEMANGE J.-M. 1969: 288

Family: Geophilidae

Type material: 1 ♀ dissected in vial + 1 slide (head, Mx) (holotype)

Type locality: Congo, Province du Bas-Congo, Kimpese [coll. Deheyn, 25 September 1939; don. königliches Museum des Belgischen Kongo, 1950]

Inventory number: 7017

***dolichocephalus* ATTEMS**

Eurytion dolichocephalus ATTEMS, 1928b: 162, figs 63-65, pl. XIX fig. 471, pl. XX fig. 491

Current status: valid as *Plateurytion dolichocephalus* (ATTEMS, 1928), see BONATO et al. 2007

Family: Geophilidae

Type material: 1 ♂ dissected, 1 slide (head, Md, Mx) (syntype)

Type locality: RSA, Cape Province, Hanover [don. South African Museum (7768)]

Inventory number: 7033

***edentatus* ATTEMS**

Novaralius edentatus ATTEMS, 1947: 59, pl. V figs 30-31

Current status: The valid name for *Novaralius* ATTEMS, 1947 is *Maoriella* ATTEMS, 1903, see CRABILL 1964b: 87; probably a synonym of *Maoriella macrostigma* ATTEMS, 1903 (CRABILL 1964b: 90)

Family: Geophilidae

Type material: 1 ♀ dissected (two body fragments and forcipulae), 3 slides (Mx; head; posterior part of body defective) (holotype)

Type locality: Tahiti [coll. Novara Expedition February 1859]

Inventory number: 326 [Acquisition 1866.I.]

Notes: specimen examined by Crabill 1960; he noted, by mistake, that the maxillae are missing.

***edentulus* ATTEMS**

Mecistocephalus edentulus ATTEMS, 1904b: 119, pl. 8 figs 7-12

Current status: valid under *Arrup*, see FODDAI et al. 2003: 1261. ATTEMS 1929a: 147 described the new genus *Nodocephalus* with *N. edentulus* as the type species; according to CRABILL 1964c: 163 a synonym of *Arrup* CHAMBERLIN, 1912

Family: Mecistocephalidae

Type material: 1 ♂ dissected, 1 slide (head, Mx) (syntype)

Type locality: Kirghizia "Turkestan", Przeval'sk [coll. Kuzulenko spring 1901, don. G. Almassy & R. Stummer]

Inventory number: 6216

***egregia* LATZEL**

Schendyla submarina var. *egregia* LATZEL in BRÖLEMANN & RIBAUT, 1912: 140

Current status: *Hydroschendyla submarina* (GRUBE, 1872). D.W. THOMPSON published in Nature 1889 a short note (letters to the editor) that J. Sinel collected a curious marine millipede in Jersey, presumably a new variation of *G. submaritima* GRUBE (incorrect, *submarina* is correct) according to R. Latzel in Vienna; one year later MONIEZ (1890: 149) mentioned only the name of the new variation: *Geophilus submarinus* var. *egregia* LATZEL, without specifying any characteristics; so the name remained as a nomen nudum until 1912, when BRÖLEMANN & RIBAUT published a letter from R. LATZEL (p. 140); he explained why he suggested the proposal for a new variation based on the only specimen he got, from D. W. Thompson, describing the significance of that specimen, now published for the first time; in the same paper BRÖLEMANN & RIBAUT synonymised the variation with *Hydroschendyla submarina* GRUBE 1872

Family: Schendylidae

Type material: 1 ♂ in bad condition. The specimen was completely dried and was recycled with trisodium phosphate and glycerin in March 1979.

Type locality: Island Jersey [coll. J. Sinel presumably, don. Latzel 1919]

Inventory number: 6486 [Acquisition 1919.]

***escherichii* VERHOEFF**

Clinopodes flavidus escherichii VERHOEFF, 1896: 2

Current status: *Clinopodes flavidus* C.L. KOCH, 1847, see FODDAI et al. 1995: 9

Family: Geophilidae

Type material: 1 ♀ complete (syntype ? see "Notes")

Type locality: Turkey, Istanbul / Üsküdar "Scutari" [coll. K. Escherich, don. K.W. Verhoeff]

Inventory number: 298 [Acquisition 1896.I.53]

Notes: VERHOEFF 1896 noted only the type locality Istanbul / Pera, other species from the collection of Escherich - mentioned in the Verhoeff paper - are from Istanbul / Skutari. NHMW bought the specimen in 1896. 1 ♂ and 1 ♀ from Scutari and 1 ♂ labelled "Konstantinopel" are stored in the ZMB (MORITZ & FISCHER 1979: 341).

europaeus ATTEMS

Pectiniunguis europaeus ATTEMS, 1903: 191, pl. 13 figs 15-17

Current status: junior synonym of *Haploschendyla grantii* POCKOCK, 1891 see MINELLI & BONATO in prep.

Family: Schendylidae

Type material: 1 ♂, 2 slides ♂ (posterior body part, head; Mx, Md) (syntypes)

Type locality: Greece, Corfu [don. Hamburg Museum]

Inventory number: 4920

Notes: 2 other syntypes are preserved in the ZMH (WEIDNER 1960: 63).

felix ATTEMS

Geophilus felix ATTEMS, 1947: 57, pl. IV figs 24-26

Current status: junior synonym of *Pachymerium ferrugineum* (C.L. KOCH, 1835), according to MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♀, body cut in two parts, head, Mx and posterior body part on a slide (holotype)

Type locality: Madeira [coll. "jemand aus der Dienerschaft ihrer Majestät der Kaiserin", don. J. Kundrat 1861]

Inventory number: 4839 [Acquisition 1866.I.273]

filiformis ATTEMS

Ballophilus filiformis ATTEMS, 1952c: 120, figs 190-196

Current status: species whose status has never been revised since its original description

Family: Ballophilidae

Type material: 7 ♂♂, 8 ♀♀, 1 ♂ dissected, 3 slides (head, Md, Mx, half of anterior part of body; Mx, Md; body ♂ in two fragments) (syntypes)

Type locality: Democratic Republic Kongo "Zaire", Nyakasiba, Kabare [coll. N. Leleup February 1951, don. Kongo Museum]

Inventory number: 4870

***flavescens* ATTEMS**

Ballophilus flavescens ATTEMS 1938a: 324, fig. 282

Current status: species whose status has never been revised since its original description

Family: Ballophilidae

Type material: a) 1 ♂ complete; b) 3 ♂♂ complete; (syntypes)

Type locality: Vietnam [coll. C. Dawydoff 1930-35]: a) Varella "S-Annam"; b) Trangbom "Cochinchina"

Inventory number: a) 4932; b) 4933

***flaviceps* ATTEMS**

Mecistocephalus flaviceps ATTEMS, 1953: 141

Current status: species whose status has never been revised since its original description

Family: Mecistocephalidae

Type material: 1 ♀ together with maxillae separated, 1 ♀ dissected and mouth-parts on slide, 2 ♀♀ complete (syntypes)

Type locality: Laos, Xieng Kuang [coll. C. Dawydoff]

Inventory number: 7039

***flavipes* ATTEMS**

Sundarrup flavipes ATTEMS, 1930a: 167, figs 76-82

Current status: valid under *Anarrup* CHAMBERLIN, 1920, see BONATO et al. 2003: 544

Family: Mecistocephalidae

Type material: a) 2 ♂♂ complete, 1 ♀ complete; b) 1 ♀ complete; (syntypes)

Type locality: Indonesia, Sunda Islands [coll. B. Rensch 1927]: a) Flores, Geli Moetoe (vulcan); b) Sumbawa, Batudulang "Batoe Doelang"

Inventory number: a) 5031; b) 5032

Notes: 2 ♂♂ from Geli Moetoe and 1 ♂ from Luatallu (E- Lombok) are stored in the ZMB, indicated as paratypes (?), see MORITZ & FISCHER 1979: 342.

***flavus* ATTEMS**

Diphtherogaster flavus ATTEMS, 1909a: 16, pl. I figs 1-7

Current status: last scrutiny by ATTEMS 1929a: 118

Family: Oryidae

Type material: 1 ♂ and 1 ♀ complete, 1 ♂ dissected, 2 slides (♀: head, Md; Mx); (syntypes)

Type locality: South Africa, Namaqualand "Klein-Namaland", Steinkopf [coll. L. Schultze, May 1903]

Inventory number: 4877

Notes: Attems spelled the species' name in the original paper as "*flavus*", but in 1929a "*flava*" by mistake. More syntypes are stored in the ZMB (MORITZ & FISCHER 1979: 342).

flavus ATTEMS

Mecistocephalus mikado flavus ATTEMS, 1938a: 329, fig. 293

Current status: valid as *Mecistocephalus flavus* ATTEMS, 1938

Family: Mecistocephalidae

Type material: a) 1 adult; b) 1 adult, 1 slide (head+Md, Mx); c) 1 adult; d) 4 adults, 2 heads; e) 1 adult; (syntypes)

Type locality: Vietnam, [coll. C. Dawydoff]: a) Ba Na mountain W of Hue "Bana"; c) Da Lat; d) Lang Bian; e) island Con Dao "Poulo Condore"; Cambodia: b) Angkor

Inventory number: a) 7025; b) 7026; c) 7027; d) 7028; e) 7029

Notes: Another slide is labelled "*Mecistocephalus mikado flavus* Dalat Lang Bian", containing 3 Mx, 3 Md and 2 Mx, 1 Md

fortis ATTEMS

Mesocanthus fortis ATTEMS, 1947: 52, pl. II fig. 9, pl. III figs 10-13

Current status: valid under *Mesoschendyla* ATTEMS, 1909, see CRABILL 1968b: 287

Family: Himantariidae

Type material: 1 ♀, 1 slide (head, Mx, body parts) (holotype)

Type locality: India, Himalaya, Himchal Pradesh, Kinnaur district, "Wanga valley" in Bushahr [coll. F. Stoliczka June 1864, don F. Stoliczka]

Inventory number: 187

franconius VERHOEFF

Scolioptanes transsilvanicus franconius VERHOEFF, 1935: 18

Current status: *Strigamia transsilvanica* (VERHOEFF, 1928) according to MATIC 1972: 153; same status in MINELLI & BONATO in prep.

Family: Linotaeniidae

Type material: 1 slide ♂ (head, anterior and posterior parts) (syntype)

Type locality: Germany, Pasing [coll. don. K.W. Verhoeff]

Inventory number: 7090

Notes: labelled "paratype" and "47B ♂" [47 pairs of legs]

franzi ATTEMS

Espagnella franzi ATTEMS, 1952a: 333, figs 3-4

Current status: valid species according to MINELLI & BONATO in prep.

Family: Schendylidae

Type material: a) 10 ♂♂, 22 ♀♀, 1 ♀ dissected, 2 slides (♂, ♀ bodies; heads, Mx); b) 4 ♂♂, 7 ♀♀, 1 specimen dissected (only posterior body); (syntypes)

Type locality: Spain [coll. don. H. Franz 1951]: a) Monte Alzo near Tolosa; b) Barranco dos Hermanas

Inventory number: a) 4939; b) 4940

franzi DOBRORUKA

Mesoschendyla franzi DOBRORUKA 1959: 414, figs 1-6

Current status: valid species

Family: Schendylidae

Type material: 1 slide (♀ complete) (holotype)

Type locality: Chad, region Tandjilé, Distrikt Laï, Bougoia bei Deressia, from a hollow *Ficus* sp. [coll. H. Franz 7 April 1957]

Inventory number: 6141

fusata ATTEMS

Diplochora fusata ATTEMS, 1903: 281, pl. 13 figs 24-25

Current status: validity of the species verified by ATTEMS, 1929a: 230

Family: Linotaeniidae

Type material: 1 ♀ defective, 1 slide (head, Mx, Md) (holotype)

Type locality: Mexico, Ventanas [coll. don. Alfred Forrer]

Inventory number: 333 [Aquisition 1883.III.11]

Notes: R. Crabill examined the specimen in March 1960 and labelled it "*Timo-taenia fusata* (ATTEMS, 1903)".

gigas ATTEMS

Geophilus gigas ATTEMS, 1951: 392, figs 1-2

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: a) 1 ♂, 1 ♀, 1 defective; b) 1 ♀, 2 slides defective (2 ind.; head, Md, Mx); (syntypes)

Type locality: a) Iran, Kuhrang Gebirge 150 km west of Isfahan; b) Azerbaijan, Vogelsee [coll. don. H. Löffler 1951]

Inventory number: a) 4874; b) 4875

***glacialis* ATTEMS**

Geophilus (Arctogeophilus) glacialis ATTEMS, 1909b: 23, pl. 1 figs 1-4

Current status: *Arctogeophilus glacialis* (ATTEMS, 1909). Last taxonomic scrutiny by Attems 1929a: 297

Family: Geophilidae

Type material: a) 1 ♂ complete; b) 1 ♂, 1 ♀ complete, 8 slides (1-2: prepared by R. Crabill 12. July 1960; 1 ♂; head, mouthparts; 3: 1 ♂ prepared by V. Ilie 2005; 4-6: prepared by Attems; 1 defective individual; Md, Mx; 7-8: head, Mx; ♂ head, mouthparts); c) 1 ♂, 3 ♀♀ complete; (syntypes)

Type locality: a) USA, Alaska, Port Clarence (South Cape Prince of Wales); b) Russia, Sibiria, Chukotskiy Poluostrov, Nunyamo; c) Russia, Sibiria, Tschukatija, "Tschuktschenhalbinsel", Konyam Bay [coll. O. Nordqvist: a) 22 July 1879; b) July 1879; c) 28 July 1879; don. L.A. Jägerskiöld, Museum Göteborg]

Inventory number: a) 4878; b) 4879; c) 4880

Notes: R. Crabill labelled the 2 slides he prepared (4879) as lectotypes, but never published this. Historical remark: the syntypes of this species were collected during the first successful navigation of the North East Passage, completed by Adolf Erik Nordenskiöld (1832-1901), Swedish naturalist and polar explorer, aboard the ship Vega in July 1879.

***gorizensis* LATZEL**

Geophilus gorizensis LATZEL, 1880: 170

Current status: valid as *Pleurogeophilus gorizensis* (LATZEL, 1880), see MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♀ complete (holotype)

Type locality: "Küstenland" (Slovenia, SE-part of the Trnovski Gozd "Tarnovner Wald") [coll. Dr. Schreiber, don. R. Latzel 1919]

Inventory number: 321 [Acquisition 1919.]

Notes: Latzel himself labelled the vial only with "Küstenland". We are certain about the type status of this specimen because it is the only *G. gorizensis* in his collection and Latzel had only 1 ♀ at his disposal.

***gracile* ATTEMS**

Rhysonotum gracile ATTEMS, 1952a: 335, figs 5-7

Current status: valid as *Dignathodon gracile* (ATTEMS, 1952), see MINELLI & BONATO in prep.

Family: Dignathodontidae

Type material: a) 1 ♂, 2 slides (1 individual dissected, body in two pieces, forcipulae; two heads, Mx); b) 1 ♂ dissected (body fragments, forcipulae, no head); (syntypes)

Type locality: Spain: a) South Carmona; b) Algeciras [coll. don. H. Franz 1951]

Inventory number: a) 4867; b) 4868

***gracilis* ATTEMS**

Schendylurus gracilis ATTEMS, 1934: 312, figs 3-5

Current status: valid under *Schendylops*, see PEREIRA & MINELLI 1993: 121

Family: Schendylidae

Type material: 2 slides prepared by Attems (head, Mx, Md; head, Mx defective) (syntype)

Type locality: Suriname [don. Museum Hamburg]

Inventory number: 6142

***granosus* ATTEMS**

Diplecthmus granosus ATTEMS, 1947: 54, pl. III figs 17-19

Current status: species whose status has never been revised since its original description

Family: Ballophilidae

Type material: 1 ♀ dissected, 1 slide (head, Mx, in bad condition) (holotype)

Type locality: Costa Rica, la Caja near S. José [coll. J. Schmidt 1931, don. Austrian Costa Rica Expedition 1930]

Inventory number: 156

***granulosus* ATTEMS**

Ballophilus granulosus ATTEMS 1938a: 326, figs 285-286

Current status: species whose status has never been revised since its original description

Family: Ballophilidae

Type material: a) 1 ♂ complete; b) 1 slide (♂ posterior body); (syntypes)

Type locality: Vietnam: a) Ba Na mountain W of Hue "Bana Zentral Annam"; b) Cam Lam "Bangoï Südannam"; [coll. C. Dawydoff 1930-35]

Inventory number: a) 4926; b) 4927

***guanophilus* VERHOEFF**

Geophilus guanophilus VERHOEFF, 1939a: 212

Current status: valid species according to MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 4 ♂♂, 1 ♀ complete (syntypes)

Type locality: South Italy [don. K.W. Verhoeff July 1940]

Inventory number: 251

Notes: 9 other syntypes are stored in the ZMB, labelled "S. Italien" (MORITZ & FISCHER 1979: 341).

haemodiontus ATTEMS

Schendylurus haemodiontus ATTEMS, 1952c: 119, figs 187-189

Current status: junior synonym of *Ctenophilus angolae* (CHAMBERLIN, 1951) see PEREIRA & DEMANGE 1991: 84

Family: Schendylidae

Type material: 1 defective individual (syntype)

Type locality: Democratic Republic Congo "Gombe Luozi" [coll. E. Dartevelle April 1918, don. Museum Tervuren, Belgium]

Inventory number: 4921

Notes: Attems' label reads "*Schendylurus haemodiolus* / Gome Luari 5164 Congo 50".

hartmeyeri ATTEMS

Geophilus hartmeyeri ATTEMS, 1911b: 158, figs 11-12

Current status: the taxonomic status is unclear. The species is either identical to *Tuoba laticeps* (POCOCK, 1891), see CRABILL 1968a: 345 and JONES 1998: 337, or to *Tuoba sydneyensis* (POCOCK, 1891), see CRABILL 1968a: 345 and JONES 1998: 334

Family: Geophilidae

Type material: a) 1 ♂, 4 slides (one ind. prepared by Crabill; 3 slides prepared by Attems, defective): head, ♀ body; head, Mx; ♀ anterior & posterior body parts; head, Md; b) 2 slides (♀ body; head, Md, Mx); (syntypes)

Type locality: SW-Australia [coll. W. Michaelsen & R. Hartmeyer 1905, Hamburger SW-austr. Forschungsreise]: a) Denham, Sharks Bay & Ebbestrand; b) Albany

Inventory number: a) 2006; b) 2007

Notes: 3 syntypes from the location Eradu are stored in the ZMH (WEIDNER 1960: 62) and 4 from Denham (Ebbestrand) in the ZMB (MORITZ & FISCHER 1979: 343).

hasei VERHOEFF

Notiphilides (Venezuelides) hasei VERHOEFF, 1938: 362, pl. 6 fig. 28, pl. 7 figs 29-30

Current status: *Titanophilus hasei* (VERHOEFF, 1938), according to CHAMBERLIN 1941: 502

Family: Oryidae

Type material: 1 ♀ (syntype)

Type locality: Venezuela [coll. A. Hase June 1930, don. K.W. Verhoeff April 1940]

Inventory number: 186

Notes: another ♀ is stored at the ZMB (MORITZ & FISCHER 1979: 343).

***hirsutipes* ATTEMS**

Scolioplanes hirsutipes ATTEMS, 1927: 293, figs 1+3

Current status: valid under *Strigamia* GRAY, 1843, see SHINOHARA K. 1981: 43

Family: Linotaeniidae

Type material: a) 4 ♂♂; 9 ♀♀, 3 juv., 1 specimen dissected, 3 slides: 1 prepared Attems, defective (body parts, two heads); 2 prepared Crabill ♂ (body and mouthparts and head); b) 1 ♂, 1 ♀; c) 5 ♂♂, 10 ♀♀, 1 juv.; d) 4 ♂♂, 3 ♀♀; (syntypes)

Type locality: Japan [coll. H. Sauter]: a) Kanagava [15 April 1905]; b) Negishi [25 February 1905]; c) Yamanaka Suruga [22 March 1905]; d) Bukengi [8 November 1905]

Inventory number: a) 401; b) 402; c) 403; d) 404

Notes: Crabill signed the two slides (401) as a ♂ lectotype, but never published this.

***hispanica* ATTEMS**

Brachyschendyla hispanica ATTEMS, 1952a: 332, figs 1-2

Current status: valid as *Schendyla hispanica* (ATTEMS, 1952) see MINELLI & BONATO in prep.

Family: Schendylidae

Type material: a) 6 ♀♀, 3 ♂♂, 1 juv., 1 ♀ without head, 1 ♂ in two pieces, 1 ind. without genitalia; 2 slides (1: forcipulae, body, head; 2a: head, Mx; 2b: Mx, Md) b) 2 ♂♂, 1 ♀; c) 1 juv.; d) 3 ♂♂, 1 juv.; e) 1 ♂, 1 juv., 1 ind. without genitalia; f) 1 ♂, 3 ♀♀, 2 juv.; g) 3 ♂♂; h) 2 ♂♂, 3 ♀♀, 1 juv., 1 ind. without genitalia; i) 5 ♂♂, 2 ♀♀, 2 juv.; (syntypes)

Type locality: Spain [coll. don. H. Franz 1951]: a) Escorial near Madrid; b) Alcalá de Henares near Madrid; c) El Pardo near Madrid; d) Sevilla; e) Sevilla, Cinca de Pino; f) South of Carmona; g) Barranco de Henares; h) Sierra de Cazorla; i) Monte Alzo close to Tolosa

Inventory number: a) 4793; b) 4794; c) 4795; d) 4796; e) 4797; f) 4798; g) 4799; h) 4800; i) 4801

***holotrichus* ATTEMS**

Ballophilus granulatus holotrichus ATTEMS 1938a: 327

Current status: species whose status has never been revised since its original description

Family: Ballophilidae

Type material: a) 1 ♂; b) 2 ♀♀, 1 ♂ dissected; c) 1 ♀; d) 1 ♀; e) 1 ♀; (syntypes)

Type locality: Vietnam "S-Annam" [coll. C. Dawydoff 1930-35]: a) Ba Ngoi; b) Cauda; c) Da Lat; d) Cua Bé; e) Nha Trang; f) Varella

Inventory number: a) 4927; b) 4928; c) 4929; d) 4930; e) 4931

ibericus ATTEMS

Brachygeophilus ibericus ATTEMS, 1952a: 338, figs 13-15

Current status: valid species under *Geophilus* according to MINELLI & BONATO in prep.

Family: Geophilidae

Type material: a) 1 ♂; b) 1 ♂, 1 ♀, 1 individual dissected (no head, no posterior body part), 2 slides (two heads, posterior body part; Mx from two individuals); c) 1 ♀ dissected (body without head, forcipulae), 1 juv.; (syntypes)

Type locality: Spain: a) Valdemoro, South of Madrid; b) Escorial near Madrid; c) Monte Alzo near Tolosa; [coll. don. H. Franz 1951]

Inventory number: a) 4860; b) 4861; c) 4862

idomenei ATTEMS

Henia idomenei ATTEMS, 1902: 575

Current status: junior synonym of *Henia athenarum* POCOCK, 1891 according to MINELLI 1982: 257

Family: Dignathodontidae

Type material: 1 ♀ complete (holotype)

Type locality: Greece, Crete, Omalos "Homalos" [coll. C. Attems 8 May 1900]

Inventory number: 4850

imbricatum ATTEMS

Pachymerium imbricatum ATTEMS, 1934b: 501, pl. XXVII figs 103-107

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: 1 ♀ dissected; 2 slides (head; 4 body segments, defective) (syntype)

Type locality: South Africa, Natal [don. Natal Museum 1933]

Inventory number: 424

***imparata* ATTEMS**

Polygonarea imparata ATTEMS, 1911b: 161, fig. 16

Current status: valid as *Ribautia imparata* (ATTEMS, 1911)

Family: Geophilidae

Type material: a) 1 ♂ complete; b) 1 ♀, 2 slides (Md; head, Mx); c) 1 ♂ complete; d) 1 defective (no head, no posterior body); (syntypes); 1 slide prepared by Crabill, no location labelled, signed as syntype (head, Mx, Md, ♂ anterior & posterior parts of the body)

Type locality: Australia [coll. W. Michaelsen]: a) East Freemantle "Lion Mill" b) & d) State of Western Australia, Subiaco; c) State of Western Australia, Boyanup

Inventory number: a) 7008; b) 7009; c) 7010; d) 7011

Notes: ♂♂ and ♀♀ syntypes from Mundaring Weir, Collie, Boyanup and Pickering Brook are stored at the ZMB (MORITZ & FISCHER 1979: 344), others from "Lion Mill", East Freemantle, are stored at the ZMH (WEIDNER 1960: 63).

***incisunguis* ATTEMS**

Eurytion (Steneurytion) incisunguis ATTEMS, 1911b: 160, figs 13-15

Current status: valid as *Steneurytion incisunguis* ATTEMS, 1911

Family: Geophilidae

Type material: 1 ♀, head missing, 1 slide (Mx, prepared by Crabill) (? syntype)

Type locality: Australia, Harvey [coll. W. Michaelsen]

Inventory number: 7056

Notes: ATTEMS 1911b pictured only male features, not indicating how many individuals of which sex were available for the description. Accordingly, WEIDNER 1960: 62 claimed the holotype for the ZMH.

***insculptus* ATTEMS**

Geophilus insculptus ATTEMS, 1895: 163, pl. VII fig. 51

Current status: junior synonym of *Geophilus alpinus* MEINERT, 1870, see SPELDA 1999: 297; CHRISTIAN 1996: 122 first described the characteristically modified accessory spur on the praetarsus of maxilla II, which Attems did not mention in the original description, but in 1929a: 356 in the course of his detailed description of *G. insculptus*

Family: Geophilidae

Type material: a) 1 ♂, 4 ♀♀, 2 juv.; b) 2 ♂♂, 2 ♀♀, 1 ind. with destroyed genital area; 2 slides (head, anterior body; 1 ind. defective); c) 1 ♀; d) 5 ♂♂, 5 ♀♀, 1 juv.; e) 2 ♂♂, 2 ♀♀; f) 1 ♂ juv.; g) 1 ♂; (syntypes)

Type locality: Austria [coll. Attems]: a) Lower Austria, Rax plateau; b) Lower Austria, "Wienerwald"; c) Lower Austria, Leithagebirge close to Mannersdorf; d) Styria, St. Ilgen, Hochschwab mountain, "Bodenbauer"; e) Styria, Schöckl mountain; f) Styria, Untertal close to Schladming; g) Styria, St. Ilgen valley

Inventory number: a) 4814; b) 4815; c) 4816; d) 4817; e) 4818; f) 4819; g) 4820

insularis ATTEMS

Arctogeophilus insularis ATTEMS, 1947: 68, pl. VII fig. 51

Current status: *Arctogeophilus insularis* ATTEMS, 1947; Attems labelled the specimen as *Arctogeophilus americanus insularis*

Family: Geophilidae

Type material: 1 defective specimen in a tube, 1 defective slide (head, Mx, part of the body) (syntype)

Type locality: Canada, Vancouver, Nanaimo [don. Museum Basel]

Inventory number: 6125

Notes: Attems's label clearly reads Nanaimo, although he published "Manaimo". Crabill stated on 12 July 1960 that he has only the slide at his disposal.

japonicus ATTEMS

Escaryus japonicus ATTEMS, 1927: 299, figs 8-10

Current status: valid species, see TITOVA 1972: 117

Family: Schendylidae

Type material: 1 ♂ dissected, 2 slides (2 fragments of the body; head, Mx, Md), 1 juvenile (syntype)

Type locality: Japan, Todohokke, Hokaido? "Todohokhe Hohango" [coll. H. Sauter 1 November 1904]

Inventory number: 155

javanica ATTEMS

Schendyla javanica ATTEMS, 1907a: 94, figs 6-7

Current status: valid under *Mesoschendyla* ATTEMS, 1909 see CRABILL 1968b: 287

Family: Schendylidae

Type material: 2 slides: one prepared by L.A. Pereira 1993 (head, Mx, posterior part of the body ♂, defective), one prepared by Attems (Md, Mx, 10 segments) (syntype parts)

Type locality: Indonesia, Java, Tjompea, sieved guano from a cave [coll. K. Kraepelin 1903, don. K. Kraepelin]

Inventory number: 4883

Notes: WEIDNER (1960: 63) specified the holotype (!) from the ZMH.

***javanicus* ATTEMS**

Tygarrup javanicus ATTEMS, 1929a: 152

Current status: valid species see BONATO et al. 2004: 14

Family: Mecistocephalidae

Type material: a) 1 ♂ complete; b) 1 ♂ complete, 1 ♀, 1 slide (head); c) 1 ♂; (syntypes)

Type locality: Java [coll. don. K. Kraepelin 1903]: a) Tjibodas; b) Buitenzorg; c) Tjompea

Inventory number: a) 4936; b) 4937; c) 4938

Notes: as stated in ATTEMS 1929a: 152 the type previously was described as *Mecistocephalus spissus* WOOD in ATTEMS 1907a: 95, figs 8-9.

***kervillei* ATTEMS**

Geophilus (Khroumiriophilus) kervillei ATTEMS, 1908: 109, figs 1-5

Current status: *Pachymerium ferrugineum* (C.L. KOCH, 1835), Attems himself synonymised the species (ATTEMS 1929a: 245)

Family: Geophilidae

Type material: a) 2 ♂♂, 2 ♀♀, 1 slide (♀ body, forcipulae); b) 1 ♀; (syntypes)

Type locality: Tunisia: a) Region d'Ain-Draham; b) Ile de Tabarka [coll. H. Gadeau de Kerville May and June 1906, don. 1907]

Inventory number: a) 4840; b) 4841

***kobelti* ATTEMS**

Geophilus kobelti ATTEMS, 1903: 238

Current status: obviously a valid species, the last scrutiny is in ATTEMS 1947: 165

Family: Geophilidae

Type material: 2 ♀♀, 1 ♀ dissected on slide (head, forcipulae, half of the body) (syntypes)

Type locality: Brasil, Rio de Janeiro [coll. ?, collection of the "Hofmuseum"]

Inventory number: 239

Notes: only one specimen is recorded in the Attems catalogue.

***kraepelini* ATTEMS**

Ballophius kraepelini ATTEMS, 1907a: 92, figs III-V, pl. I figs 2-3

Current status: species whose status has never been revised since its original description

Family: Ballophilidae

Type material: 1 slide (head, Mx) (syntype)

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

Inventory number: 7070

Notes: 2 individuals in alcohol, labelled by ATTEMS "*Ballophilus kräpelini* / Buitenzorg / Kräpelin", are stored in our collection (NHMW 7065: 1 ♂ without head and another dissected ind. without head). According to ATTEMS 1907a, the relevant three type localities are "Tjibodas, Depok (Detritus), Pangerango". Type material from Depok and Pangerango is housed at the ZMH (see WEIDNER 1960: 61). The body of the individual from Tjibodas (NHMW 7070) seems lost, unless the names Tjibodas and Buitenzorg (NHMW 7065) were somehow mixed up. "Buitenzorg" is the type locality for six other new species from ATTEMS 1907a, but not for *kraepelini*.

laticollis ATTEMS

Geophilus laticollis ATTEMS, 1903: 239

Current status: valid as *Tuoba laticollis* (ATTEMS, 1903) according to FODDAI et al. 2000: 103

Family: Geophilidae

Type material: 2 slides (Mx, Md; last segments of the body) (syntype)

Type locality: Chile, Juan Fernandez [coll. L. Plate]

Inventory number: 7079

Notes: Attems had 4 ♂♂ and 1 ♀ at his disposal. In the type catalogue of the ZMB, MORITZ & FISCHER 1979: 345 listed 2 ♂♂ and 1 ♀ and 1 individual without head and last segments of the body. Probably the missing parts were prepared and stored by Attems in Vienna.

latisternus ATTEMS

Pleurogeophilus latisternus ATTEMS, 1947: 64, pl. VI fig. 43, pl. VII fig. 44

Current status: species whose status has never been revised since the original description

Family: Geophilidae

Type material: 1 ♂ dissected, 1 slide (head, Mx) (holotype)

Type locality: Turkey, Taurus mountains "Cilicischer Taurus" [don. Museum Basel 1943]

Inventory number: 4858

***latzeli* SSELIWANOFF**

Geophilus latzeli SSELIWANOFF, 1881: 7

Current status: *Escaryus latzeli* (SSELIWANOFF, 1881) see TITOVA 1972: 116

Family: Schendylidae

Type material: 3 ♀♀, 1 ♂ dissected, 1 slide (head, Md) (probably syntypes)

Type locality: Kyrgyzstan, Tian Schan [from Latzel's collection]

Inventory number: 154 [Acquisition 1919]

Notes: 1 ♂, 1 ♀ syntypes (?) from Tian-Schan, collected by E. Haase are stored in the ZMB (MORITZ & FISCHER 1979: 345). Haase was in contact with R. Latzel, perhaps explaining why Latzel got the specimens.

***latzeli* VERHOEFF**

Scolioptanes transsilvanicus latzeli VERHOEFF, 1935: 17

Current status: *Strigamia transsilvanica* (VERHOEFF, 1928), according to MATIC 1972: 152; same status in MINELLI & BONATO in prep.

Family: Linotaeniidae

Type material: 1 slide ♂ (head, anterior and posterior parts) (syntype)

Type locality: Croatia, Istria, Lovran "Laurana" [coll. C. Strasser, don. K.W. Verhoeff]

Inventory number: 7089

Notes: labelled "paratype" and "45 Bp ♂" [45 pair of legs]

***levigata* ATTEMS**

Henia illyrica var. *levigata* ATTEMS, 1905: 164

Current status: *Henia illyrica* MEINERT, 1870 according to MINELLI 1982: 255

Family: Dignathodontidae

Type material: a) 1 ♂, 1 ♀; b) 1 ♂, 1 ♀; (syntypes)

Type locality: Turkey, Kayseri Ili [coll. don. A. Penther 1902]: a) Erciyas Dağı mountain "Kleinasien, Erdschias Dagh"; b) "nördl. Erdschias"

Inventory number: a) 360; b) 359

***litoralis* VERHOEFF**

Polygonarea litoralis VERHOEFF, 1937: 111, fig. 15

Current status: species whose status has never been revised since the original description

Family: Geophilidae

Type material: 1 ♀ complete (syntype)

Type locality: RSA, Natal [don. K.W. Verhoeff April 1940]

Inventory number: 427

Notes: R. Crabill (1964) marked: "other specimens are in Munich". We approve the type status of this specimen, although the locality is labelled only with Natal and not more clearly specified. 1 specimen is stored at ZMB, labelled "Capland" (MORITZ & FISCHER 1979: 346).

macrostigma ATTEMS

Maoriella macrostigma ATTEMS, 1903: 284, pl. 14 figs 26-28

Current status: valid species, see ARCHEY 1936: 60

Family: Geophilidae

Type material: 1 ♀ (lectotype, designated by R.E. CRABILL 1964b: 91); 2 ♀♀ (paralectotypes A and B), 2 slides (head, Mx, Md of paralectotype A)

Type locality: New Zealand [coll. A. Reischek, don. A. Reischek 1891]

Inventory number: 325

Notes: C. Attems erroneously labelled the vial as *M. microstigma*.

magellanicus ATTEMS

Scolioplanes magellanicus ATTEMS, 1897b: 4, figs 1-4

Current status: valid under *Cryotion* CHAMBERLIN, 1962 according to SHELLEY 2006: 9, who confirmed CHAMBERLIN's designation as type species of *Cryotion*, a genus which CRABILL 1964a: 34 stated as an synonym of *Schendyloides* ATTEMS, 1897b. According to SILVESTRI 1899: 151 *Scolioplanes magellanicus* is a synonym of *Schizotaenia alacer* (POCOCK, 1891)

Family: Geophilidae

Type material: a) 2 ♀♀ complete; b) 1 ♂, 1 ♀ (complete); (syntypes)

Type locality: a) Chile, Ile Navarino, Puerto Toro, wood; b) Argentina, Ushuaia [coll. W. Michaelsen a) 19 December 1892; b) 30 October 1892]

Inventory number: a) 7073; b) 7074

Notes: One slide, labelled "Geophilide Magelhaens Michaelsen", contains antennae, labrum, Md, Mx, forcipulae, apparently the ones used to draw the textfigures of the publication. WEIDNER 1960: 64 listed in the type catalogue of the ZMH, syntypes labelled "Magalhaens - StraÙe".

makrodontus ATTEMS

Geophilus makrodontus ATTEMS, 1907b: 8, pl. 1 figs 1-4

Current status: valid as *Clinopodes flavidus* KOCH, 1847, see MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 slide (Md, Mx) (holotype)

Type locality: Ukraine, Krym, Alushta [coll. A. Stuxberg, don. Museum Göteborg]

Inventory number: 7075

***maroccana* ATTEMS**

Schendyla maroccana ATTEMS, 1903: 189, pl. 13 figs 19-20

Current status: valid as *Schendylops maroccanus* (ATTEMS, 1903)

Family: Schendylidae

Type material: 1 ♂ in alcohol with head and mouthparts preserved on a slide (holotype)

Type locality: Morocco, Tetouan

Inventory number: 7055

***mauritanus* VERHOEFF**

Mecistocephalus (Mecistocephalus) mauritanus VERHOEFF, 1939b: 77, figs 4-7

Current status: obviously a valid species, the last scrutiny in ATTEMS 1947: 101

Family: Mecistocephalidae

Type material: 1 ♀ dissected (head without Md, body), 1 ♂ (syntypes)

Type locality: Mauritius [coll. R.F. Lawrence between 1935 and 1939; don. K.W. Verhoeff April 1940]

Inventory number: 217

Notes: R. Crabill (14 August 1964) marked: "most or all of remaining syntypes in Munich collection", but there are others in ZMB as well (MORITZ & FISCHER 1979: 346).

***maximiliani* HUMBERT & SAUSSURE**

Notiphilus maximiliani HUMBERT & SAUSSURE, 1870b: 205; SAUSSURE & HUMBERT 1872: 142

Current status: *Notiphilides maximiliani* (HUMBERT & SAUSSURE, 1870) see KRAUS 1957: 368

Family: Oryidae

Type material: 1 ♀, 1 slide (Mx, Md, parts of the body) (holotype)

Type locality: Mexico, Campeche [coll. don. Karl Heller]

Inventory number: 184 [Acquisition 1866.I.198]

Notes: The type status is clearly verified. The collection was sent in 1866 to Humbert & Saussure in Geneva on loan and returned in 1869. The two scien-

tists examined the samples and described some new species. In the NHMWs volume of the Rev. et Mag. de Zoologie 1870, old pencil marks indicate the origin of the newly described species. In the case of *N. maximiliani* "Campeche, Heller, Mus. Wien", Humbert & Saussure marked, in a list inserted in the book of acquisition, "*Notiphilides maximiliani nov. sp.*, number 198".

megalocyclus ATTEMS

Bothriogaster signata megalocyclus ATTEMS, 1911a: 61, figs 1-5

Current status: a subspecies whose status has not been revised since its original description

Family: Himantariidae

Type material: 3 ♀♀ (syntypes)

Type locality: Syria, Berzé, Anti Lebanon [coll. don. H. Gadeau de Kerville, spring 1908]

Inventory number: 7060

Notes: There are two further samples (NHMW 112, 7061) labelled "*Bothriogaster megalocyclus* Anti Taurus" without any remarks about the origin, therefore their type status is too doubtful to us, although Anti Taurus is another type locality mentioned in the description of this species.

melanostictus ATTEMS

Pectiniunguis melanostictus ATTEMS, 1911c: 109, figs 1-5

Current status: valid as *Nannophilus melanostictus* (ATTEMS, 1911), see ATTEMS 1929a: 70, MINELLI & BONATO in prep.

Family: Schendylidae

Type material: 1 ♂, 1 ♀, 3 slides (Mx, Md; head; body) (syntypes)

Type locality: Spain, Canary islands, Gomera, San Sebastian, Barranco de la Villa "unter Steinen des Talgerölles" [coll. W. May, 13 August 1907]

Inventory number: 4917

Notes: 2 other syntypes are stored in the ZMH (WEIDNER 1960: 63).

melanostigma ATTEMS

Thalphybius melanostigma ATTEMS, 1900b: 140, pl. 15 figs 10-12

Current status: valid under *Ithyphilus melanostigmus* (ATTEMS, 1901) see DEMANGE & PEREIRA (1985)

Family: Ballophilidae

Type material: 1 ♂, 1 ♀, 1 dissected specimen, 1 slide (ant., forcipulae, mid-body) (syntypes)

Type locality: Seychelles, Mahé [coll. A. Brauer 1895]

Inventory number: 5033

***meruinus* ATTEMS**

Orphnaeus meruinus ATTEMS, 1909c: 5, figs 12-13

Current status: ATTEMS 1947: 93 confirmed the validity of the species

Family: Oryidae

Type material: 1 ♂, 2 slides (head; Md, Mx) (syntype)

Type locality: Tanzania, Arusha Region, Arumeru District, Ngarenanyuki Ward NE of mount Meru "Meru Niederung am Fluß Ngare na nyuki" [coll. Y. Sjöstedt 1905/06]

Inventory number: 4923

***metopias* ATTEMS**

Geophilus (Eurytion) metopias ATTEMS, 1903: 246, pl. 14 fig. 41, pl. 15 figs 45-47

Current status: valid as *Plateurytion metopias* (ATTEMS, 1903) – see BONATO et al. 2007: 6

Family: Geophilidae

Type material: 1 ♀ defective, 1 slide (head, remounted from Attems' original slide by Crabill) (syntype)

Type locality: Chile, "Corral" [coll. W. Michaelsen]

Inventory number: 7023

Notes: 1 ♀ syntype from Corral collected by Plate is stored at the ZMB (MORITZ & FISCHER 1979: 346) and 1 ♀ indicated as holotype (sic!) labelled only "Chile, Chorrall" at the ZMH (WEIDNER 1960: 62).

***mexicanus* ATTEMS**

Californiphilus mexicanus ATTEMS, 1947: 51, pl. II figs 6-8

Current status: species whose status has never been revised since its original description

Family: Himantariidae

Type material: 1 ♀, 1 slide (head, mouthparts) (holotype)

Type locality: Mexico [coll. don. D. Bilimek 1884]

Inventory number: 138

***michaelseni* ATTEMS**

Geophilus (Eurytion) michaelseni ATTEMS, 1903: 245, pl. 14 figs 39-40

Current status: valid as *Plateurytion michaelseni* (ATTEMS, 1903), BONATO et al. 2007: 6

Family: Geophilidae

Type material: 1 slide (♀ head, Mx, posterior part; remounted from Attems' original slide by Crabill) (syntype)

Type locality: Chile, Valparaiso, gardens and "Vina del mar" [coll. W. Michaelsen]

Inventory number: 7085

microdon ATTEMS

Scolioplanes acuminatus var. *microdon* ATTEMS, 1904a: 181, pl. IX fig. 1

Current status: *Strigamia acuminata* (LEACH, 1915) see MINELLI & BONATO in prep.

Family: Linotaeniidae

Type material: 4 ♂♂, 6 ♀♀, 2 slides (1 ♂ complete, 1 ♀; head, Md, body in two pieces) (syntypes)

Type locality: Bosnia & Hercegovina, Sarajevo Canton, Bjelašnica [coll. October 1901]

Inventory number: 4838

microtrichus ATTEMS

Australophilus microtrichus ATTEMS, 1947: 65, pl. VII figs 45-46

Current status: junior synonym of *Zelanophilus provocator* (POCOCK, 1891), see CRABILL 1963: 166

Family: Geophilidae

Type material: 2 ♀♀ (1 ♀ dissected), 1 slide (Md, Mx) (syntypes)

Type locality: New Zealand, South Island, Wairewa "Waireva", Lyttelton "Lyttelton" [don. Museum Basel]

Inventory number: 4859

Notes: Crabill 1966 labelled "compared with types in British Museum".

mikado ATTEMS

Mecistocephalus mikado ATTEMS, 1928a: 117, figs 4-7

Current status: valid species, see ULIANA et al. 2007: 39

Family: Mecistocephalidae

Type material: a) 1 adult; b) 1 adult; c) 14 adult, 8 juvenile, 2 ind. dissected, 3 slides (head, Md, Mx; head, Md, Mx; posterior body together with non type material); (syntypes)

Type locality: Taiwan: a) An-p'ing "Anping" under stones; b) "Yantempo"; c) Kao-hsiung "Takao"; [coll. H. Sauter: a) 19 September 1906; b) 20 July 1905; c) 10 July 1907]

Inventory number: a) 191; b) 192; c) 193

monopora ATTEMS

Schendyla (Mesoschendyla) monopora ATTEMS, 1909a: 19, pl. I figs 8-13

Current status: *Mesoschendyla monopora* (ATTEMS, 1909), see CRABILL 1968b: 287

Family: Schendylidae

Type material: a) 3 ♂♂, 5 ♀♀, 7 slides (4 ♂♂, 3 ♀♀); b) 2 ♂♂; (syntypes)

Type locality: a) Namibia, Possession Island (South Lüderitzbucht); b) South Africa, Kamaggas "kl. Namaland" [coll. L. Schultze 1903-1905]

Inventory number: a) 2089; b) 2090

Notes: syntypes from both localities are stored at the ZMB (MORITZ & FISCHER 1979: 347).

monoporus ATTEMS

Achilophilus monoporus ATTEMS, 1928b: 154, figs 55-57, pl. XX fig. 482

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: a) 1 slide (head, Mx, Md); b) 1 ind. (part), 2 slides (head, Mx; ♀ two body parts); (syntypes)

Type locality: RSA, Cape Province: a) Matjesfontein [don. South African Museum (13483)]; b) Hanover [don. South African Museum (7768)]

Inventory number: a) 7080; b) 7083

monoporus ATTEMS

Thracophilus monoporus ATTEMS, 1947: 78

Current status: junior synonym of *Thracophilus bulgaricus* VERHOEFF, 1926, MINELLI & BONATO in prep.

Family: Himantariidae

Type material: 1 specimen defective, 2 slides (head; defective slide) (holotype)

Type locality: Bosnia-Herzegovina, Trebinje Region, Gacko Municipality, Orien mountain, Vilina Pecina cave [coll. don. K. Absolon]

Inventory number: 137

monospathis ATTEMS

Polygonarea monospathis ATTEMS, 1928b: 175, textfigs 68-69, pl. XIX fig. 470, pl. XX figs 492-494

Current status: valid species, see LAWRENCE 1955: 34

Family: Geophilidae

Type material: 3 specimens defective, 2 slides (head; Md, Mx) (syntypes)

Type locality: South Africa, Cape, Caledon, Venster Ravine

Inventory number: 4857

Notes: A third slide, labelled "Capland" and containing body fragments, could have been the model for Attems' figure of a sternite; however, due to lack of clarity concerning the locality and the slide's bad condition, it received no inventory number.

montana ATTEMS

Schendyla montana ATTEMS, 1895: 170

Current status: valid species, see MINELLI & BONATO in prep.

Family: Schendylidae

Type material: a) 2 ♂♂, 3 ♀♀, 1 juv.; b) 5 ♂♂, 5 ♀♀, 1 juv.; c) 2 ♂♂; d) 3 ♂♂, 1 juv.; e) 1 ♀; f) 1 ♂

Type locality: Austria: Lower Austria: a) Dürre Wand; b) Wienerwald; c) Rax, Reistal; Styria: d) Schöckl; e) Graz, Maria Trost, westl. Stiflingthal. Slovenia: f) Maribor, Gamsergraben; [coll. Carl Attems: c) 13 August 1894; d) 5 August 1893; f) 22 September 1893]

Inventory number: a) 4785; b) 4786; c) 7099; d) 4787; e) 7100; f) 4788

Notes: According to Attems' catalogue one specimen from Lower Austria, "Dürre Wand" (a) was collected in October 1896, so it has no type status. According to the original publication, 5 specimens were collected 2 July 1893; all 6 are stored together in the same vial.

multipes ATTEMS

Polygonarea repanda multipes ATTEMS, 1911b: 164, fig. 18

Current status: *Ribautia repanda* (ATTEMS, 1911), according to RIBAUT 1912: 85

Family: Geophilidae

Type material: a) 1 ♀, 1 defective slide (head, Mx); b) 1 ♀ complete; (syntypes)

Type locality: Australia, State of Western Australia [coll. W. Michaelsen & R. Hartmeyer 1905, Hamburger SW-austr. Forschungsreise]: a) Jarrahdale; b) Serpentine

Inventory number: a) 7019; b) 7021

Notes: ATTEMS 1911b did not specify a subspecies *P. repanda repanda* but only *P. r. multipes* and *P. r. conifera*. See "Notes" at "*repanda*". 1 ♂ syntype from Woorloo and 1 ♀ syntype from Mundaring Weir are stored at ZMB (MORITZ & FISCHER 1979: 347). Syntypes from Jarrahdale are also preserved at ZMH (WEIDNER 1960: 63).

***nanus* ATTEMS**

Geophilus nanus ATTEMS, 1952a: 337, fig. 12

Current status: valid species according to MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♀, a half body (syntype)

Type locality: Spain, Andalusia, South Carmona [coll. don. H. Franz 1951]

Inventory number: 4827

***nesiotes* ATTEMS**

Geophilus nesiotes ATTEMS, 1903: 220

Current status: according to ZAPPAROLI 2002: 102 a junior synonym of *Geophilus insculptus* ATTEMS, 1895, which is a junior synonym of *Geophilus alpinus* MEINERT, 1870 according to SPELDA 1999: 297

Family: Geophilidae

Type material: 2 ♂♂, 2 ♀♀, 1 defective, 2 slides from another specimen, in bad condition (head, body with forcipulae) (syntypes)

Type locality: Greece, Crete, Mournies [coll. Attems 5 May 1900]

Inventory number: 4876

Notes: As stated in ATTEMS 1929a: 165, the species *G. nesiotes* is based on characters of *Geophilus pygmaeus* (non LATZEL, 1880) described in ATTEMS 1902: 572 on 4 specimens. In ATTEMS 1903 the name *G. nesiotes* was made available by inclusion in the key for the subgenus *Geophilus*. A full description was given in ATTEMS 1929a: 165. Attems labelled the vial with *G. nesiotes* but provided no information in his catalogue about this species or on its subspecies *G. nesiotes pellekana* ATTEMS, 1903 from "Korfu, Pelleka" (p. 227), a subspecies missing in our collection.

***nigropictus* ATTEMS**

Orphnaeus brasiliensis var. *nigropictus* ATTEMS, 1903: 203

Current status: *Orphnaeus brasiliensis* (HUMBERT & SAUSSURE, 1870), according to KRAUS 1957: 368

Family: Oryidae

Type material: a) 1 ♀, 1 ♂ dissected; b) 1 ♀ dissected, 2 slides (head, Mx; Md); (syntypes)

Type locality: a) Venezuela [coll. ? 1883]; b) Madagascar [coll. ? 1885, don. F. Steindachner]

Inventory number: a) 168; b) 4925

Notes: Attems mentioned only males in the first description. The material comes from the original museum's collection.

***obscuratus* ATTEMS**

Megalacrus obscuratus ATTEMS, 1953: 142, pl. I figs 5-6

Current status: species whose status has never been revised since its original description, Attems labelled the vial: *Mecistocephalus Megalacrus obscuratus*. ATTEMS 1953: 142 described *Megalacrus* as a new genus. For BONATO et al. 2003: 546 the validity of the genus is uncertain; they stated that no material was available

Family: Mecistocephalidae

Type material: 1 ♀ in three fragments, 4 slides prepared by Crabill (head, Mx; forcipulae; head, Mx; two posterior parts from a male and a female) (syntypes)

Type locality: Vietnam, Tonkin, Chapa (1500m) [coll. C. Dawydoff 1938/39]

Inventory number: 7053

***occidentalis* ATTEMS**

Alloschizotaenia occidentalis ATTEMS, 1937: 323, figs 10-14

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: 1 dissected ♀, 1 slide (head, Mx) (holotype)

Type locality: Democratic Republic Congo, Ituri Province, Medje [coll. Schoutedden June 1925, don. Congo Museum]

Inventory number: 7084

***oligopus* ATTEMS**

Himantarium gabrielis var. *oligopus* ATTEMS, 1908: 105

Current status: *Himantarium gabrielis* (LINNAEUS, 1767)

Family: Himantariidae

Type material: 1 ♂, 7 ♀♀ (syntypes)

Type locality: Tunisia, Region d'Ain-Draham [coll. don. H. Gadeau de Ker-ville 1906]

Inventory number: 4853

***oligopus* ATTEMS**

Escaryus retusidens var. *oligopus* ATTEMS, 1904b: 122

Current status: valid as *Escaryus oligopus* ATTEMS, 1904, see PEREIRA & HOFFMAN 1993: 9

Family: Schendylidae

Type material: 2 ♂♂, 2 ♀♀ complete, 1 slide (head) (syntypes)

Type locality: Kyrgyzstan (labelled "Turkestan", in Attems' catalogue "Centralasien" B 655, original locality: Przewalsk) [coll. G. Almassy & R. Stummer 1900, don. G. Almassy & R. Stummer July 1903]

Inventory number: 7093

***oligopus* ATTEMS**

Orinomus oligopus ATTEMS, 1895: 167

Current status: *Geophilus oligopus* (ATTEMS, 1895). The genus *Orinomus* ATTEMS, 1895 is a synonym of *Geophilus*, see ATTEMS 1903: 293; same status in MINELLI & BONATO in prep. A redescription of the species is given by DÁNYI 2007

Family: Geophilidae

Type material: 2 slides, a) defective: forcipulae, Mx; b) Md (syntype parts)

Type locality: Austria, Styria, Hochschwab, Schiestlhaus - Fölzalpe [coll. C. Attems 11 October 1893]

Inventory number: a) 6098; b) 6099

Notes: According to the Attems catalogue the type series consists of 2 adults and 1 juvenile.

***oligopus* ATTEMS**

Polygonara oligopus ATTEMS, 1909a: 26, pl. I figs 21-23

Current status: last scrutiny Attems 1934b: 503

Family: Geophilidae

Type material: 1 ♂ head on a slide (syntype)

Type locality: RSA, Namaqualand "Klein-Namaland", Kamaggas [coll. L. Schulze 1903-05]

Inventory number: 4855

Notes: another damaged individual is stored at ZMB (MORITZ & FISCHER 1979: 348).

***olivaceus* ATTEMS**

Gonibregmatius olivaceus ATTEMS, 1930a: 170, figs 83-85, 87-89

Current status: obviously a valid species, the last scrutiny in ATTEMS 1959: 308

Family: Gonibregmatidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Indonesia, Lombok Timur, Sewela

Inventory number: 7020

Notes: Attems marked "Typus: Senckenberg - Museum, Nr. 840". 1 ♂ syntype is stored at ZMB (MORITZ & FISCHER 1979: 348).

***oraniensis* LATZEL**

Schendyla eximia var. *oraniensis* LATZEL, 1886: 173

Current status: obviously valid as *Nannophilus eximius* MEINERT, 1870

Family: Schendylidae

Type material: 6 ♂♂, 4 ♀♀, 5 juv., 1 ♀ diss. (syntypes)

Type locality: Algeria, Oran [coll. F. Lemoine, don. R. Latzel 1919]

Inventory number: 149 [Acquisition 1919]

***ormanyensis* ATTEMS**

Geophilus ormanyensis ATTEMS, 1903: 230

Current status: junior synonym of *Stenotaenia linearis* (KOCH, 1835), see BONATO & MINELLI 2008: 269

Family: Geophilidae

Type material: 1 ♀ (lectotype designed by BONATO & MINELLI 2008), 1 ♂, 2 defective slides from a male (body with forcipulae; Mx) (paralectotypes)

Type locality: Romania, Somes Valley near Cluj-Napoca "Ormanyer Wald im Szamosthal bei Klausenburg" [coll. ? November 1900]

Inventory number: 4813

***pacificus* ATTEMS**

Marsikomerus pacificus ATTEMS, 1938b: 372, figs 1-6

Current status: *Marsikomerus bryanus* (CHAMBERLIN, 1926), according to BONATO et al. 2004: 18

Family: Schendylidae

Type material: 1 ♀, 1 slide (head, Mx, Md, part of the body) (holotype)

Type locality: USA, Hawaii, Nanhi Goulch, Mauna Kea

Inventory number: 5034

Notes: Attems stated no location in his original paper.

***pallidus* ATTEMS**

Ballophilus pallidus ATTEMS 1938a: 323, figs 279-281

Current status: species whose status has never been revised since its original description

Family: Ballophilidae

Type material: a) 1 complete ♀; b) 6 ♂♂, one completely on slide, another one on slide but forcipulae in alcohol (syntypes)

Type locality: Vietnam [coll. C. Dawydoff 1930-35]: a) Tây Ninh; b) Cap Varella

Inventory number: a) 4934; b) 4935

***palpiger* ATTEMS**

Geophilus palpiger ATTEMS, 1903: 231

Current status: valid under *Stenotaenia* according to BONATO & MINELLI 2008: 272, but treated as a distinct species only provisionally, because further investigations are necessary. According to ATTEMS 1929a: 187 under *Nesogeophilus*

Family: Geophilidae

Type material: 1 ♂ (holotype)

Type locality: Slovenia, Podgorje [coll. C. Attems 27 April 1895]

Inventory number: 4843

***paucidens* ATTEMS**

Schendylurus paucidens ATTEMS, 1939: 303, figs 1-5

Current status: valid under *Schendylops* COOK, 1899, see PEREIRA & MINELLI 2001: 22

Family: Schendylidae

Type material: 1 ♂, 1 ♀, 2 slides (♀: head, Mx; body) (syntypes)

Type locality: Uganda, Mount Elgon, Camp 1 de l' Elgon, 2210m [coll. Dr. Jeannel, Mission scientifique de l'Omo 1937]

Inventory number: 151

***paucipes* ATTEMS**

Leptoschendyla paucipes ATTEMS, 1953: 139, pl. I figs 1-3

Current status: species whose status has never been revised since its original description

Family: Schendylidae

Type material: 1 ♂, 1 ♀, 1 ind. defected, 1 slide with head, Mx, Md (syntypes)

Type locality: Vietnam, Lang Bian "Annam, Lang Biang" [coll. C. Dawydoff 1938/39]

Inventory number: 4884

***paucipes* ATTEMS**

Ribautia paucipes ATTEMS, 1952c: 124, figs 201-204

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: 1 ♂, 4 ♀♀, 2 slides (2 ?♀♀ dissected in 2 parts; heads and mouthparts) (syntypes)

Type locality: Congo, Kivu, Kavare, Nyakasiba [coll. N. Leleup Januar 1951, don. königliches Museum des Belgischen Kongo 1950]

Inventory number: 7018

***pauperum* ATTEMS**

Philacroterium pauperum ATTEMS, 1928: 186, figs 76-81

Current status: according to VERHOEFF 1937: 95 identical with *Aphilodon weberi* SILVESTRI, 1909; Attems had only females at his disposal

Family: Geophilidae

Type material: a) 1 ♀; b) 1 slide (head, Md, Mx); (syntype)

Type locality: RSA, Cape Province, a) Knysna b) Table Mt., Newlands Slope [don. South African Museum a) (1579); b) (7642)]

Inventory number: a) 7045; b) 7076

***pauropus* ATTEMS**

Geophilus pauropus ATTEMS, 1927: 291

Current status: valid species, see MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♀ (syntype)

Type locality: Croatia, Velebit mountains, Dundovic Padez (near Stirovaca) [coll. 29 September 1907]

Inventory number: 4871

***pectinata* ATTEMS**

Brachyschendyla pectinata ATTEMS, 1934a: 311, figs 1-2

Current status: valid species, redescribed by PEREIRA 1984

Family: Schendylidae

Type material: 1 slide (head, Mx, Md) (lectotype designed by PEREIRA 1984)

Type locality: Brasil, Petropolis [don. Museum Hamburg]

Inventory number: 5096

***perforatus* HAASE**

Geophilus concolor var. *perforatus* HAASE, 1887: 109

Current status: valid species under *Sepedonophilus* according to ATTEMS 1929a: 269

Family: Geophilidae

Type material: 1 ♂ complete but in pieces (syntype)

Type locality: Australia, Queensland, Gayndah [coll. A. Dietrich, don. Museum Godeffroy (Nr. 14457)]

Inventory number: 417 [Acquisition 1882.I.]

Notes: In July 1964 Crabill prepared the slides of *Attems* containing parts of the syntype and preserved the mouthpart and head parts extra in small vials with alcohol.

***persimilis* ATTEMS**

Nyctunguis persimilis ATTEMS, 1932: 12, figs 10-15

Current status: valid species (no revision of *Nyctunguis* available, according to CHRISTIAN 1996)

Family: Schendylidae

Type material: 1 ♂, 2 ♀♀, 1 exuvia, 1 slide (head, Mx, Md) (syntypes)

Type locality: Turkey, region of Ankara, in old *Salix* sp. [coll. H. Gadeau de Kerville April 1912]

Inventory number: 7097

Notes: CHRISTIAN 1996 confirms the validity of the species and reports specimens from four localities in Europe (Austria, Vienna).

***pharyngealis* VERHOEFF**

Chaetechelyne vesuviana pharyngealis VERHOEFF 1928: 282

Current status: synonym of *Henia (Chaetechelyne) montana* (MEINERT, 1870), according to MINELLI & BONATO in prep.

Family: Dignathodontidae

Type material: 1 ♂ complete (possibly syntype)

Type locality: Italy "Bergamasker Voralpen" [coll. K.W. Verhoeff, don. K.W. Verhoeff July 1940]

Inventory number: 376

Notes: Possibly the ♂ Verhoeff found (29 April. ?) near Laveno at the Lago Maggiore, but this location is not specified on the label (see Introduction).

***pluripes* ATTEMS**

Pleurogeophilus pluripes ATTEMS, 1947: 63, pl. VI figs 40-42

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: 1 ♀, 1 slide (head, Mx, Md) (holotype)

Type locality: Kenia, Kibwezi, at a small brook in the shrubland "Buschsteppe an einem kleinen Bach" [don. V. Gotsch 1906]

Inventory number: 323

plusiodontus ATTEMS

Pectiniunguis plusiodontus ATTEMS, 1903: 193, pl. 13 fig. 18

Current status: valid species, last taxonomic scrutiny FODDAI et al. 2000: 131

Family: Schendylidae

Type material: 1 ♀ (body with forcipulae and no last segments), 2 slides (mouthparts, head, last 5 segments, prepared by Attems); another 4 ♀♀, 2 ♂♂ and 3 slides (parts, prepared by Pereira 1988); (syntypes)

Type locality: Brazil, Santa Catharina State, Blumenau [coll. L. Hetschko, don A. Hetschko]

Inventory number: 150 [Acquisition 1889.II.6]

Notes: Originally the museum received 3 specimens according to the acquisition book. Now, however, the series comprises altogether 7 individuals. L.A. Pereira examined the specimens in November 1988, preparing the three additional slides from the type series. He recognises only the 1 ♀, mentioned above, to be conspecific. The remaining 6 specimens he labelled "*Schendylurus* sp.". A revision of the genus *Pectiniunguis* with further information on this species is in preparation by L.A. Pereira.

plusioporus ATTEMS

Mesogeophilus plusioporus ATTEMS, 1947: 62, pl. VI figs 36-39

Current status: valid under the genus *Telocricus* CHAMBERLIN, 1915

Family: Geophilidae

Type material: 1 ♀, 1 juv., 1 ♀ cut in two, head on a slide (syntypes)

Type locality: Costa Rica, La Caja [coll. E. Reimoser 1930 during the Austrian Costa Rica Expedition 1930]

Inventory number: 319

pluvia ATTEMS

Schizotaenia pluvia ATTEMS, 1909c: 8, pl. 3 fig. 55, pl. 4 figs 81-84

Current status: synonym of *Alloschizotaenia minuta* (SILVESTRI, 1907) according to RIBAUT 1914: 25; see also ATTEMS 1929a: 312

Family: Geophilidae

Type material: 1 ♂, 1 ♀, 5 slides (1 ♂ in two parts, no head; ♂ head, Mx; ♂ head, labrum; ♂ Mx, Md; ♂ head) (syntypes)

Type locality: Tanzania, Meru rainforest (1500m) [coll. Y. Sjösted 1905-06]

Inventory number: 7043

Notes: 1 ♂ syntype stored at ZMB (MORITZ & FISCHER 1979: 348)

***polypus* ATTEMS**

Schendylurus polypus ATTEMS, 1928b: 134, figs 39-45, pl. XIX figs 468-469

Current status: valid as *Schendylops polypus* (ATTEMS, 1928)

Family: Schendylidae

Type material: 1 slide (head, Mx, Md) (syntype)

Type locality: RSA, "Triangle, Worcester, Cape" [don. South African Museum (7442)]

Inventory number: 7078

***porosa* ATTEMS**

Cyclorya porosa ATTEMS, 1947: 55, pl. IV figs 20-23

Current status: valid as *Diplethmus porosus* (ATTEMS, 1947) see CRABILL 1969: 242. He synonymized *Cyclorya* ATTEMS, 1947 with *Diplethmus* COOK 1899

Family: Ballophilidae

Type material: 1 ♂ dissected, 1 slide (Mx, Md, head, posterior body fragments) (syntype)

Type locality: Peru [from Latzel's collection]

Inventory number: 190 [Acquisition 1919]

***porteri* SILVESTRI**

Mecistocephalus porteri SILVESTRI, 1899: 149

Current status: SILVESTRI 1905: 759 assigned the species to the genus *Pachymerinus*, which ATTEMS 1929a: 273 confirmed, see FODDAI et al. 2000

Family: Geophilidae

Type material: 1 ind. in alcohol, head, Mx, Md on a slide prepared by Attems (syntype)

Locality: Chile, labelled Coronel in the vial and labelled Coipué (type locality) on the slide [don. Museum Hamburg 1934]

Inventory number: 7087

Notes: 4 "Paratypoides" are listed in the catalogue of the ZMH (WEIDNER 1960: 63), with the location "Chile". Attems labelled the slide: "Hamburg 1934, Coipué, Chile", which is the location in Silvestri's original description, and he labelled the vial: "Hamburg 1934, Coronel, Chile". The head with Mx and Md is certainly prepared from the individual in the vial, but their location marks do not match.

***procerus* L. KOCH**

Geophilus procerus L. KOCH, 1878: 793

Current status: obviously a valid species; listed by LIGNAU 1929: 165, but according to his opinion with an uncertain status

Family: Geophilidae

Type material: a) 1 ♀; b) 2 ♀♀ complete (syntypes)

Type locality: Japan [coll. A. Roretz, don. a) K. Koelbel; b) R. Latzel 1919]

Inventory number: a) 320 [Acquisition 1879.1.8]; b) 322 [Acquisition 1919.]

Notes: ad b) the two specimens were given to Latzel by Koch himself and then donated to the NHMW by Latzel in 1919.

***pusillus* SSELIWANOFF**

Scolioptanes pusillus SSELIWANOFF, 1881: 18 (nomen nudum); 1884: 92

Current status: *Strigamia pusilla* (SSELIWANOFF, 1884) see ZALESSKAJA et al. 1982: 189; same status in MINELLI & BONATO in prep.

Family: Linotaeniidae

Type material: 4 ♂♂, 2 ♀ (some are syntypes)

Type locality: Russia: Ryazan "Rjazan" [don. A. Sseliwanoff to R. Latzel, who donated the specimens to the museum in 1919]

Inventory number: 6095 [Acquisition 1919.]

Notes: Latzel received the specimens from A. Sseliwanoff. The original description is based on specimens collected in "Rjazan", but in this lot specimens from two localities are mixed together: from Ryazan and from Voronezh, which is not a type locality. Another ♀ and ♂ syntype from "Rjazan" are stored in the ZMB (MORITZ & FISCHER 1979: 349).

***pygmaeus* ATTEMS**

Ballophilus pygmaeus ATTEMS, 1953: 140, pl. 1 fig. 4

Current status: species whose status has never been revised since its original description

Family: Ballophilidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Vietnam "Annam", Lang Bian [coll. C. Dawydoff 1938/39]

Inventory number: 4869

***pygmaeus* LATZEL**

Geophilus pygmaeus LATZEL, 1880: 182

Current status: valid species, see ATTEMS 1929a: 174; valid species according to MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♂?, 1 ♀ (syntypes)

Type locality: Slovenia, Trnovski Gozd "Tarnowaner Wald" [coll. don. R. Latzel]

Inventory number: 262 [Acquisition 1884.I.38]

Notes: The acquisition of 1884 consisted of 4 type specimens, from Slovenia, "österr. Küstenlande (Tarnowaner Wald)" and from Austria, "Kärnten (Loiblthal)". The latter are missing.

repanda ATTEMS

Polygonarea repanda ATTEMS, 1911b: 163

Current status: *Ribautia repanda* (ATTEMS, 1911) see RIBAUT 1912: 85, ATTEMS 1929b: 290

Family: Geophilidae

Type material: see "Notes", and *multipes* and *conifera*

Type locality: see *multipes* and *conifera*

Inventory number: see *multipes* and *conifera*

Notes: ATTEMS 1911b described *P. repanda* and at the same time established two subspecies, *P. repanda multipes* and *P. repanda conifera*. Specimens are only differentiated for the two subspecies and not for *P. repanda*. RIBAUT 1912: 85 raised ssp. *conifera* to species level and moved it to the genus *Ribautia* BRÖLEMANN, whereas characters of ssp. *multipes* are cited to account for "*Ribautia repandum* (ATT.)" (RIBAUT 1912: 86). ATTEMS 1929a listed *P. r. multipes* ATTEMS, 1911 as a synonym of *Ribautia repanda* (ATTEMS, 1911) and relabelled a slide accordingly (NHMW 7019 – see *multipes*).

retusidens ATTEMS

Escaryus retusidens ATTEMS, 1904b: 121, pl. 8 figs 4-6

Current status: valid species, see MINELLI & BONATO in prep.

Family: Schendylidae

Type material: 2 ♂♂, 2 ♀♀ complete (syntypes)

Type locality: Kyrgyzstan (sample labelled "Turkestan", in Attems' catalogue "Centralasien", B 1412, original locality according to literature: "Przheval'sk" Karakol in Kyrgyzstan) [coll. G. Almassy & R. Stummer 1900, don. G. Almassy & R. Stummer July 1903]

Inventory number: 7092

Notes: 2 slides are available, labelled by Attems "*Escaryus retusidens* B655 Almassy", containing head, Md, Mx; anterior & posterior body.

robusta ATTEMS

Stigmatogaster gracilis robusta ATTEMS, 1929a: 38

Current status: *Stigmatogaster gracilis* (MEINERT, 1870), see MINELLI & BONATO in prep.

Family: Himantariidae

Type material: 2 ♂♂, 2 ♀♀ (syntypes)

Type locality: Tunisia [coll. don. H. Gadeau de Kerville 1906]

Inventory number: 4854

robustior ATTEMS

Orphnaeus meruinus robustior ATTEMS, 1937: 321

Current status: valid subspecies according to the last taxonomic scrutiny in ATTEMS 1947: 93

Family: Oryidae

Type material: 1 ♀ (syntype)

Type locality: Democratic Republic Congo, Haut Katange Province, Lukafu [coll. de Witte 22 December 1930, don. Museum Tervuren, Belgium]

Inventory number: 4922

robustus ATTEMS

Brachygeophilus robustus ATTEMS, 1953: 143, pl. I fig. 10, pl. II fig. 11

Current status: species whose status has never been revised since the original description; the genus *Brachygeophilus* BRÖLEMANN, 1909 is a synonym of *Geophilus* LEACH, 1814, according to FODDAI et al. 1995: 9

Family: Geophilidae

Type material: 1 ♀ (body), 1 slide (head, labrum, Mx) (holotype)

Type locality: Laos, Xieng Kuang [coll. C. Dawydoff November 1949]

Inventory number: 4866

robustus ATTEMS

Purcellinus robustus ATTEMS, 1928b: 149, fig. 52, pl. XIX fig. 480, pl. XX figs 483-486

Current status: obviously a valid species, the last scrutiny in ATTEMS 1929a: 194

Family: Geophilidae

Type material: a) 1 ♀, complete; b) 1 slide (head, Md, Mx); (syntypes)

Type locality: RSA: a) Cape Town, Table Mountain above Kirstenbosch b) Retreat [don. South African Museum (7646)]

Inventory number: a) 7057; b) 7072

***rodnaensis* VERHOEFF**

Geophilus (Clinopodes) rodnaensis VERHOEFF, 1938: 342

Current status: *Clinopodes rodnaensis* (VERHOEFF, 1938), see MATIC 1972: 88; same status in MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♀ (syntype)

Type locality: "Siebenbürgen" [coll. don. K.W. Verhoeff]

Inventory number: 4873

Notes: 1 ♀ syntype labelled "Karpathen" is stored at ZMB (MORITZ & FISCHER 1979: 349).

***sabulosus* ATTEMS**

Eurytion sabulosus ATTEMS, 1909a: 33, pl. II figs 32-37

Current status: valid as *Plateurytion sabulosus* (ATTEMS, 1909) see BONATO et al. 2007

Family: Geophilidae

Type material: 2 ♂♂, 4 slides, prepared by Attems (Mx; Md; heads), 1 ♀ dissected, 1 defective slide, prepared by R.E. Crabill 21 December 1967 (head, Mx, Md) (syntypes)

Type locality: RSA, Namaqualand, Kamaggas [coll. L. Schultze 1903-05]

Inventory number: 7037

Notes: 3 ♂♂ and 4 ♀♀ syntypes are stored at ZMB (MORITZ & FISCHER 1979: 350)

***schauinslandi* ATTEMS**

Geophilus (Pachymerium) schauinslandi ATTEMS, 1903: 251, pl. 14 figs 29-30

Current status: junior synonym of *Geophilus antipodum* POCKOCK, 1891 now valid as *Steneurytion antipodum* (Pocock, 1891), see BONATO et al. 2007: 9

Family: Geophilidae

Type material: 1 ♀ (lectotype designed by BONATO et al. 2007)

Type locality: New Zealand, Chatham islands [coll. don. H. Schauinsland]

Inventory number: 4844

***scheerpeltzi* ATTEMS**

Chalanda scheerpeltzi ATTEMS, 1952b: 50, figs 1-4

Current status: junior synonym of *Eurogeophilus pinguis* (BROLEMANN, 1898), see BONATO et al. 2006

Family: Geophilidae

Type material: 1 ♀ complete, 1 ind. defected (two parts, without head), 1 slide (head, Md, Mx) (syntypes)

Type locality: Austria, Carinthia, Hochobir "am Fuße des Jovanberges" [coll. O. Scheerpeltz 16 August 1948, don. O. Scheerpeltz]

Inventory number: 313

serangodes ATTEMS

Geophagus serangodes ATTEMS, 1897a: 476, pl. 21 figs 1-4

Current status: valid as *Sogophagus serangodes* (ATTEMS, 1897)

Family: Gonibregmatidae

Type material: 1 ♀, head and mouthparts missing (syntype)

Type locality: Indonesia, Halmahera, Soakonora [coll. W. Kükenthal]

Inventory number: 7054

Notes: Crabill designated the holotype with the remark that "the prehensors, head and mouthparts are on a microscopic slide prepared by Dr. Attems".

sibiricus COOK

Escaryus sibiricus COOK, 1899: 304

Current status: valid species, see TITOVA 1972: 116

Family: Schendylidae

Type material: 1 ♀, 1 ♂ complete, 1 slide (head, Mx) (syntypes)

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

Inventory number: 7059

Notes: COOK 1899: 304 wrote "*Escaryus sibiricus* is represented by numerous specimens collected by Graeser at Vladivostok, Siberia, now preserved in the Hamburg Museum". The sample at NHMW has a label in Attems' handwriting "*Escaryus sibiricus*·Wladiwostok Hamb. M". In his catalogue Attems specified the samples as "*Escaryus sibiricus* / Wladiwostok, ♂ ♀, acquired 1903, donated by Hamb. Mus.". In ATTEMS 1904b: 122 he states "Subsequently to this new species [referring to *Escaryus retusidens* var. *oligopus*] I present an extended diagnosis of *Escaryus sibiricus* Ck., as Cook's description is not sufficient and the reader might be tempted to judge both species as identical; director Mr. Kräpelin kindly lent Cook's originals, which are in possession of Hamburg Museum".

sitocola ATTEMS

Geophilus (Pachymerium) sitocola ATTEMS, 1903: 256

Current status: valid as *Steneurytion antipodum* (POCOCK, 1891) according to ARCHEY 1936: 55

Family: Geophilidae

Type material: 1 ♀ dissected, 1 slide (head, Mx, defective) (holotype)

Type locality: New Zealand [coll. A. Reischek, don. A. Reischek 1903]

Inventory number: 416

***sjoestedti* ATTEMS**

Ctenorya sjoestedti ATTEMS, 1909c: 7

Current status: ATTEMS verified the validity of the species in 1929a: 117

Family: Oryidae

Material: 1 ♀ complete (type status: see "Notes")

Locality: Namibia, Keetmanshoop [coll. L. Schultze 1903-1905]

Inventory number: 7066

Notes: This sample is not listed in ATTEMS 1909a (on Schultze's collection 1903-1905), although two attached labels refer to Schultze. In contrast, ATTEMS 1909c described the type species from Meru / Tanzania (from Sjöstedt's collection 1905-1906). Therefore we only publish a "Locality" for this specimen. Both collections, Schultze's and Sjöstedt's, were possibly mixed, completed almost at the same time and published in the same year. No individual from the type locality Meru is available, but in ATTEMS 1929a: 117 only one ♀ from Meru is listed, indicating a holotype.

***sorrentinus* ATTEMS**

Geophilus sorrentinus ATTEMS, 1903: 228

Current status: valid as *Stenotaenia sorrentina* (ATTEMS, 1903), see BONATO & MINELLI 2008: 273

Family: Geophilidae

Type material: 1 ♀, 1 slide (last 6 body segments) (holotype)

Type locality: Italy, Sorrento, Monte Faito [coll. C. Attems 20 January 1898]

Inventory number: 6101

Notes: The original description is too incomplete, so LEWIS 1994: 39 redescribed the holotype. He assigned the specimen to *G. linearis* C.L. KOCH 1835.

***strictus* LATZEL**

Geophilus strictus LATZEL, 1880: 174

Current status: valid species see MINELLI & BONATO in prep.; ATTEMS 1934: 314 placed the species under *Brachygeophilus*, a genus synonymous to *Geophilus*, see FODDAI et al. 1995

Family: Geophilidae

Type material: 1 ♂ (holotype)

Type locality: Croatia, Buzet "Pinguenta" ("Österreichische Küstenlande") [coll. don. Robert Latzel]

Inventory number: 265 [Acquisition 1884.I.35]

Notes: Latzel stated in the original description only "Österreichische Küstenlande". In the museum's acquisition book, Latzel's handwriting specified the locality exactly with "Pinguenta", the Italian name for the Croatian city Buzet.

sturanyi ATTEMS

Insigniporus sturanyi ATTEMS, 1903: 270, pl. 13 figs 21-22

Current status: valid under *Stenotaenia*, according to BONATO & MINELLI 2008: 276

Family: Geophilidae

Type material: 1 ♀ without head, 2 slides (head; Mx) (holotype)

Type locality: Macedonia, Gevgelija "Gjevgelii" [coll. don. R. Sturany 1897]

Inventory number: 327

styriaca ATTEMS

Geophilus flavidus var. *styriaca* ATTEMS, 1895: 163

Current status: *Clinopodes flavidus* (KOCH, 1847), see MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 2 ♂♂ (syntypes)

Type locality: Slovenia, Maribor, Pohorje mountains "Bachern bei Marburg" [coll. don. C. Attems]

Inventory number: 7191

syriacus ATTEMS

Geophilus (Pachymerium) syriacus ATTEMS, 1903: 257

Current status: valid as *Gnathoribautia syriaca* (ATTEMS, 1903) see MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 ♀ (body and forcipulae), 3 slides (posterior body, fragment of the midbody; head; Mx, Md) (holotype)

Type locality: Syria, Beirut [coll. ?1872, don. Plason]

Inventory number: 415 [aquisition number 1879.IV.]

tenue LATZEL

Himantarium mediterraneum var. *tenue* LATZEL, 1886: 174

Current status: *Himantarium tenue* LATZEL, 1886, according to MINELLI & BONATO in prep.

Family: Himantariidae

Type material: 3 ♀♀ (syntypes)

Type locality: Tunisia; France, surrounding area of Paris

Inventory number: 4851

tenuiculus ATTEMS

Geophilus tenuiculus L. KOCH, 1878: 794

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: 1 ♀ (syntype)

Type locality: Japan [coll. A. Roretz, don. K. Koelbel]

Inventory number: 3677 [Acquisition 1879.I.9]

thesei ATTEMS

Bothriogaster thesei ATTEMS, 1902: 579, pl. I figs 7-12

Current status: junior synonym of *Bothriogaster signata* (KESSLER, 1874), see MINELLI & BONATO in prep.

Family: Himantariidae

Type material: a) 2 ♂♂, 2 ♀♀; b) 1 ♂, 1 ♀, 1 defective ind.; c) 2 ♂♂; d) 1 ♀; e) 3 ♂♂, 1 defective ind.; f) 1 ♂, 3 ♀♀, 3 juv., 3 slides (♂ genital somite, ♀ genital somite defective; Mx defective; penis); (syntypes)

Type locality: Greece, Crete: a) Imbros Ravine "Limbro Schlucht"; b) Murnies; c) Lakki; d) Nerokuri; e) Galos; f) Askiphu (Attems labelled "Aselakia Wald", obviously only a local name) [coll. C. Attems 1900: a) 12 May; b) 5 May; c) 7 May; d) 4 May; e) 20 May; f) 14 May]

Inventory number: a) 4514; b); 4515; c) 4516; d) 4517; e) 4518; f) 4519

trichopus ATTEMS

Eurytion trichopus ATTEMS, 1928b: 165, figs 66-67, pl. XIX figs 477-478, pl. XX figs 487-488

Current status: valid as *Plateurytion trichopus* (ATTEMS, 1928), see BONATO et al. 2007

Family: Geophilidae

Type material: a) 1 ♂, 2 ♀♀; b) 1 slide (head, Mx, Md); (syntypes)

Type locality: RSA: a) Table Mt., Newlands Slope [don. South African Muse-

um (7688)]; b) Cape Peninsula [don. South African Museum]

Inventory number: a)7032; b) 7068

***triporus* TITOVA**

Tygarrup triporus TITOVA, 1983: 149, figs 1-4

Current status: valid species

Family: Mecistocephalidae

Type material: a) 1 ♀ mid-body, 1 slide (head, somites 1-9, posterior body) (holotype); b) 1 ♂ (paratype)

Type locality: Cambodia, Bokor, 1080 m [coll. C. Dawydoff March 1939]

Inventory number: a) 1656; b) 1657

Notes: samples were part of an original series which Attems determined completely as *Mecistocephalus insularis* (LUCAS, 1863); Titova revised it and designated two new species, *Tygarrup triporus* TITOVA, 1983 and *Tygarrup crassignathus* TITOVA, 1983, which were present together with specimens of *T. javanicus* ATTEMS, 1929 and *Tygarrup singaporiensis* VERHOEFF, 1937.

***tristanicum* ATTEMS**

Pachymerium tristanicum ATTEMS, 1928b: 157, textfigs 58-62, pl. XX figs 489-490

Current status: junior synonym of *Geophilus flavus* (DE GEER 1778), see MINELLI & BONATO in prep.

Family: Geophilidae

Type material: 1 slide with only the head and Md (holotype)

Type locality: British Overseas Territories, Saint Helena, Island Tristan da Cunha [don. South African Museum]

Inventory number: 4846

***tunetanum* VERHOEFF**

Polyporogaster tunetanum VERHOEFF, 1899: 364

Current status: valid as *Polyporogaster tunetana*, approved by LEWIS 1986: 22

Family: Himantariidae

Type material: 1 ♀ complete (syntype)

Type locality: Tunisia, "Tunis" [coll. J. Vosseler, don. K.W. Verhoeff]

Inventory number: 139

Notes: syntypes (mostly slides) are stored at ZMB (MORITZ & FISCHER 1979: 347) as well.

***varians* ATTEMS**

Luangana varians ATTEMS, 1953: 143, pl. I figs 7-9

Current status: species whose status has never been revised since its original description; Crabill, who examined the specimens, labelled in October 1963 "mouth part of this Ex. used in the original description; it is *Orphnaeus brevila-biatus* Newport"; the other specimen in an extra vial is labelled only by Attems as *Luangana varians*

Family: Geophilidae

Type material: 1 specimen dissected, head and posterior part prepared on a slide by Attems; 1 ♂, 1 ♀, 1 slide prepared by Crabill 1963 (♂ head, Mx) (syntypes)

Type locality: Laos, Luang Prabang [coll. C. Dawydoff 1938-1939]

Inventory number: 6217

viridicans ATTEMS

Brachygonarea viridicans ATTEMS, 1927: 296, figs 5-7

Current status: *Queenslandophilus viridicans* (ATTEMS, 1927), see TAKAKUWA 1940: 143

Family: Geophilidae

Type material: a) 26 adult ind., 1 slide (2 heads, 2 Mx, 2 Md, parts of the body); b) 1 ♀; c) 3 ♀♀; d) 6 adults; e) 3 tubes: 2 ♂ complete, 3 ♀♀ complete, 1 ♀ dissected with all parts in the tube; (syntypes)

Type locality: Japan: a) Suruga, Yamanaka, 1100', under maple tree bark; b) Yamanbutoge, 0 - 4000'; c) Ooyama; d) Negishi (sieved); e) Takakiyama; [coll. H. Sauter: a) 22 March 1905; b) 26 August 1905; c) 26 May 1905; e) 30 March 1905]

Inventory number: a) 423; b) 430; c) 431; d) 432; e) 433

winnetui ATTEMS

Geophilus winnetui ATTEMS, 1947: 57, pl. IV fig. 27, pl. V figs 28-29

Current status: *Arenophilus bipuncticeps* (WOOD, 1862), according to CRABILL 20 July 1960

Family: Geophilidae

Type material: a) 1 ♀, 2 defective specimens; b) 2 defective specimens, 1 slide (2 heads, 2 Mx); (syntypes)

Type locality: USA: a) Providence; b) Iowa [coll. Pack jun.]

Inventory number: a) 260; b) 4865

***xylophagus* ATTEMS**

Geophilus xylophagus ATTEMS, 1903: 237

Current status: obviously a valid species, but according to ATTEMS (1929a: 185) under *Nesogeophilus* VERHOEFF, 1926, which is a synonym of *Tuoba* CHAMBERLIN, 1926 (CRABILL 1968a: 345)

Family: Geophilidae

Type material: 1 ♂ without head, 2 slides (head; mouthparts) (holotype)

Type locality: New Zealand "unter morschem Holz" [coll. don. A. Reischek]

Inventory number: 318

***zelandicum* ATTEMS**

Pachymerium zelandicum ATTEMS, 1947: 67, pl. VII figs 49-50

Current status: species whose status has never been revised since its original description

Family: Geophilidae

Type material: 1 ♀, two parts of the body, 1 slide (head, Mx, fragment of the body) (holotype)

Type locality: New Zealand [don. Museum Basel]

Inventory number: 4845

***zonalis* BROLEMANN & RIBAUT**

Schendyla zonalis BROLEMANN & RIBAUT, 1911: 221

Current status: junior synonym of *Schendyla carniolensis* VERHOEFF, 1902, MINELLI & BONATO in prep. ATTEMS 1929a: 62 placed the species under the subgenus *Schendyla* (*Echinoschendyla*)

Family: Schendylidae

Type material: 2 ♂♂, 1 juv. (syntypes)

Type locality: Basses-Pyrénées probably Aspe valley "Aspeigt." [don. H. Brölemann 18 July 1913]

Inventory number: 7091

Notes: we assume, with high probability, the type status for the specimens, which Attems received from Brolemann two years after the description. Brolemann's original label is not preserved, Attems wrote on a label and in his catalogue "Aspeigt.", very likely "Aspeigtal" – "valley of the river Aspe". The original local specification was published generally as "Pyrénées".

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