

# **Kataloge** **Band 22**

**der wissenschaftlichen Sammlungen  
des**

**Naturhistorischen Museums in Wien**

**Myriapoda**

**Heft 4**

**Victoria ILIE, Edmund SCHILLER,  
Verena STAGL**

**Type specimens of the  
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Natural History Museum in Vienna**

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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 Ilie<sup>1</sup>, Edmund Schiller<sup>2</sup>, Verena Stagl<sup>3</sup>

## 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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<sup>1</sup> Garda Nationala de Mediu Comisariatul, Judetean Caras-Severin, str. Caminelor 5, 320176 Resita, Romania. E-mail: [victoria\\_boitan@yahoo.com](mailto:victoria_boitan@yahoo.com)

<sup>2</sup> Naturhistorisches Museum Wien, 3. Zoologische Abteilung, Burgring 7, 1010 Wien, Austria. E-mail: [edmund.schiller@nhm-wien.ac.at](mailto:edmund.schiller@nhm-wien.ac.at)

<sup>3</sup> Naturhistorisches Museum Wien, 3. Zoologische Abteilung, Burgring 7, 1010 Wien, Austria. E-mail: [verena.stagl@nhm-wien.ac.at](mailto:verena.stagl@nhm-wien.ac.at)

*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. Sseliwanoff (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* ATTEMMS, 1903 in CRABILL 1964a), so the others are not valid. L.A. PEREIRA (1984) designated a lectotype for *Brachyschendyla pectinata* ATTEMMS, 1934 and BONATO et al. 2007 for *Geophilus (Pachymerium) schauinslandi* ATTEMMS, 1903. Another lectotype was designated for *Geophilus ormanyensis* ATTEMMS, 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 Stiellers 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 FÖDDAI 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**

*Tygarrup 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**

*Eurytionaporopus* ATTEMS, 1922: 99, fig. 1

**Current status:** valid as *Hapleurytionaporopus* (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. 1 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* POCKOCK, 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 ♀.

### *causicus* ATTEMS

*Geophilus (Pachymerium) causicus* 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

### *causicus* SSELIWANOFF

*Geophilus causicus* 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 "Gudauri", [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 & Gudauri) 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 *Polyricus* 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

*Scolioplanes 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. Stiegelmaier 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 (Echinoschendyla) 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.]

***dampfi* 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* POCK, 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 "Batoo 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 Biang", 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

*Scolioplanes 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 Lai, 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* LATTZEL, 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 "Tarnowaner 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**

*Diplothmus 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 es Museum Wien, download unter www.biologiezentrum.at

**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* POCKOCK, 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 Fremantle "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 Fremantle, 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**

*Scolioplanes 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 - Straße"

### *makrodonatus* ATTEMS

*Geophilus makrodonatus* 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 Wooroloo 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 brasilianus* var. *nigropictus* ATTEMS, 1903: 203

**Current status:** *Orphnaeus brasilianus* (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. Schouteden 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 "Paratypoide" 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.I.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**

*Scolioplanes 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. I 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**

*Ophnaeus 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* POCK, 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 "Pinguente" ("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 "Pinguente", 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. *tenu* 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* ATTEMES, 1929 and *Tygarrup singaporiensis* VERHOEFF, 1937.

***tristanicum* ATTEMES**

*Pachymerium tristanicum* ATTEMES, 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

***tunetanium* VERHOEFF**

*Polyporogaster tunetanium* 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* ATTEMES**

*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 brevilibiatus* 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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