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Natural History Museum in Vienna**

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Catalogue front cover: *Henicops caeculus* BROLEMAN, 1889 modified after BERLESE 1892;
Lithobius pusillus LATZEL, 1880 modified after BERLESE 1888;
Lithobius leptopus LATZEL, 1880 modified after BERLESE 1890

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

Verena Stagl¹, Marzio Zapparoli²

Abstract

The present annotated type catalogue lists the type series of the Lithobiomorpha (Chilopoda) collection housed in the Natural History Museum in Vienna (NHMW). Altogether, 110 types belonging to the families Henicopidae and Lithobiidae are registered – 80 species, 17 subspecies and 13 variations. The types were established by Carl Attems (65), Robert Latzel (22), Karl W. Verhoeff (8), Henri W. Brolemann (5), Anton Sseliwanoff (3), two each by Ludek J. Dobroruka and Robert Latzel & Erich Haase, one each by Ludwig Koch, Erich Haase and Filippo Silvestri. The type list in alphabetical order provides information on the current status, the category of types, the sex and number of specimens, the type locality and often includes remarks on the history of acquisition and possible ambiguities in the identification.

Zusammenfassung

Der vorliegenden Typenkatalog listet die in der Myriapoden Sammlung des Naturhistorischen Museums in Wien (NHMW) vorhandenen Typenserien der Lithobiomorpha (Chilopoda) auf. Insgesamt 110 Typenserien werden erfasst; 80 Arten, 17 Unterarten und 13 Varietäten, aus den Familien Henicopidae und Lithobiidae. Die Typen stammen von Carl Attems (65), Robert Latzel (22), Karl W. Verhoeff (8), Henri W. Brolemann (5), Anton Sseliwanoff (3), je zwei von Ludek J. Dobroruka und Robert Latzel & Erich Haase und je einer von Ludwig Koch, Erich Haase und Filippo Silvestri. Die Liste, in alphabetischer Reihenfolge, beinhaltet Informationen über den aktuellen Stand der Nomenklatur, der Typenkategorie, Geschlecht und Anzahl der Individuen, des Locus typicus und gegebenenfalls auch nähere Angaben über die Akquisitionen der einzelnen Serien und Kommentare zu Unklarheiten.

Introduction

Well-organized museum collections are undoubtedly the most important prerequisites for systematic and taxonomic research. The myriapod collection of the Natural History Museum in Vienna (NHMW) is one of the largest and most important worldwide. Especially the high number of deposited type specimens is crucial for taxonomists; available type catalogues are a prerequisite for their work (WIRKNER et al. 2002, STAGL & STOEV 2005).

Carl Attems (1868–1952), one of the very distinguished persons in the history of myriapodology, was active in the Viennese collection for nearly sixty years until his death in 1952 (STROUHAL 1961, STAGL 2001). His scientific work gave the collection its renown. Attems examined collections from all over the world for his taxonomic studies and he exchanged material with other specialists. The myriapod collection in

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the NHMW, however, houses not only Attems' private collection but also contains the museum's original collection. Already in 1869, the whole myriapod collection (362 series) of the so-called k.k. Zoologische Hof-Cabinet – the institution preceding the museum of today – was sent to Alois Humbert und Henri de Saussure to Geneva on loan. The two scientists examined the collection and described some new species (STAGL 2003).

The collection was enlarged enormously upon receiving the Robert Latzel collection (STAGL & MILDNER 2001). In 1884, Robert Latzel (1845–1919) sold 125 series with 1098 specimens; the main part (420 series and 7000 specimens) was sent to the museum by Robert Latzel's wife Hedwig only a few days before his death in late 1919. The museum received not only types from Latzel himself but also from other authors like Erich Haase, Ludwig Koch, Filippo Silvestri, Anton Sseliwanoff and Henri W. Brolemann.³

Karl Wilhelm Verhoeff (1867–1945) sold parts of his collection to the NHMW in 1896, 1897, 1899, 1908, 1909, and 1940. Furthermore, in 1935, the Museum obtained numerous myriapods from him by exchange.

The Lithobiomorpha collection contains about 250 species, subspecies and variations in hundreds of lots. They originated from Attems' private collection and from the original museum collection, but both are merged today. Specimens are stored in glass tubes and preserved in 75 % ethanol; even micro-slides are available.

Altogether, the types of 80 species, 17 subspecies and 13 variations are listed and arranged alphabetically.

The majority are types from Carl Attems (65), followed by those from Robert Latzel (22) and Karl W. Verhoeff (8). Five types came from Henri W. Brolemann, three from Anton Sseliwanoff, two from Ludek J. Dobroruka, two from Robert Latzel & Erich Haase, one each from Ludwig Koch, Erich Haase and Filippo Silvestri. For 11 species, one of us (MZ) designated lecto- and paralectotypes, and Greg Edgecombe designated paralectotypes for one species of Henicopidae.

The earlier specialists typically did not specify the types, so the type status had to be carefully proved. For this purpose, data were obtained from the books of acquisition and inventory, the Attems catalogue, the labels in the vials and the original description.

Difficulties were often encountered in identifying locality specifications. The data are obscure; sometimes only the local name is known and some names are no longer in use today. Several locations are within the territories of other countries than before and have undergone complete name changes. Latzel generally did not specify localities, either in the original descriptions or on his labels in the jars. Rather, he broadly summarized the localities, for example "Österreichische Küstenlande, Kärnten, or Niederösterreich" The book of acquisitions of 1884, however, contains detailed local information, written in red ink by Latzel himself (STAGL 2001, STAGL & MILDNER 2001).

The number of specimens available to the author is often not stated in the original description. This allows us to use the term "holotype" only in those rare cases when the author indicates only one specimen at his disposal; otherwise, we use the term "syntype"

³ We adopt JEEKEL's (2005) proposal in writing the name of Brolemann consequently without diersis.

Every series is annotated with an inventory number of the NHMW. The lots of the original museum collection have another number, the so-called "acquisition date". In the books of acquisition, the stocks are listed in chronological order – indicated by Roman numerals and single series in Arabic numerals. Listed are all series that were included in the collection by donation, purchase or by exchange.

The following information is given in the type-list:

- the species name, arranged alphabetically, with the reference of the description;
- current systematic status with additional references when it has changed recently;
- family to which the species belongs;
- the category of the type (syntype/s, holotype or lectotype and paralectotype/s with the designator (des.) and the year); the number and sex of the specimens (♂/♂♂ = male/males, ♀/♀♀ = female/females, juv. = juveniles, immature/immatures); it is stated when the specimens are dissected or defective, when parts are missing; different series a), b), c)... are separated by a hyphen (-);
- the type locality; locality name in English, sometimes local specification in the native notation; original local specification – very often difficult to identify – in quotation marks; in brackets the name of the person who collected (coll.) and donated (don.) the specimens;
- the inventory number and the number of the acquisition, the latter in parenthesis;
- notes if necessary.

Catalogue of the type specimens

alarichi ATTEMS

Polybothrus praecursor alarichi ATTEMS, 1934: 317

Current status: junior synonym of *Eupolybothrus* (*Eupolybothrus*) *fasciatus* (NEWPORT, 1844) according to ZAPPAROLI (1986: 318)

Family: Lithobiidae

Type material: 1 ♂ (lectotype, des. MARZIO ZAPPAROLI 1986)

Type locality: Italy, by the river Busento near Cosenza [don. Museum Hamburg]

Inventory number: 3927

anodus LATZEL

Lithobius anodus LATZEL, 1880b: 88

Current status: valid species; VERHOEFF (1904: 147) placed *Lithobius anodus* in the new genus *Harpolithobius*, a taxon unanimously recognized also by modern European authors (e.g. MATIC 1966: 78, EASON 1982: 12, KOS 1992: 356, STOEV 1997: 53, FODDAI et al. 1995: 7)

Family: Lithobiidae

Type material: 4 ♂♂, 1 ♀ (syntypes)

Type locality: for Latzel typical imprecise specification: "Ostalpen, österreichische Küstenlande" [coll. don. Robert Latzel]

Inventory number: 3941 [Acquisition 1919.]

Notes: Latzel had only these five specimens at his disposal; another lot (13 ♂♂, 7 ♀♀) was donated by Robert Latzel in 1919, and is labelled as *L. anodus dionyx* (obviously only a manuscript name) with the localities Galizia (now part of Poland), Hungary, Croatia; type species of *Harpolithobius* (JEEKELE 2005).

arcticus ATTEMS

Monotarsobius arcticus ATTEMS, 1909a: 39

Current status: junior synonym of *Lithobius* (*Ezembius*) *stejnegeri* BOLLMAN, 1893 according to CHAMBERLIN (1923: 241, 1946: 177) (see also ZALESSKAJA 1978: 122, EASON 1996: 118)

Family: Lithobiidae

Type material: 5 ♂♂, 3 ♀♀ (syntypes)

Type locality: Bering Sea, NE Russia, Komandorskie Islands, Beringa Ostrov "Bering Insel" [coll. Vega Expedition, 14.–19.08.1879, don. Leonhard A. Jägerskiöld, Museum Göteborg]

Inventory number: 3944

Notes: as a historical remark, it may be noted that the syntypes of this species, as well as those of *Monotarsobius tricalcaratus* ATTEMS, 1909 (see below), 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.

argaeensis ATTEMS

Lithobius (*Pleuroolithobius*) *argaeensis* ATTEMS, 1905: 164

Current status: junior synonym of *Lithobius* (*Lithobius*) *parvicornis* (PORAT, 1893) see ZAPPAROLI (1991: 25), now placed into the subgenus *Porobius*, see ZAPPAROLI (1999: 132)

Family: Lithobiidae

Type material: a) 1 ♀; - b) 5 ♀♀; (syntypes)

Type locality: Turkey, Anatolia, Erciyas Dagi, Mt. Lifos, 2000 m [coll. don. Arnold Penther 1902]

Inventory number: a) 1341; - b) 3940

asperatus L. KOCH

Lithobius asperatus L. KOCH, 1878: 788

Current status: junior synonym of *Bothropolys rugosus* (MEINERT, 1872) according to EASON (1974b: 20)

Family: Lithobiidae

Type material: 1 ♂ with only the first genital sternite, 1 ♀, 1 specimen with totally dissected genital area (syntypes)

Type locality: Japan [coll. Albrecht Roretz, don. Robert Latzel and Karl Koelbel]

Inventory number: 1052 (Acquisition 1879.1.3, 1919.)

Notes: in Carl Attems' file, only two individuals are mentioned, collected by Albrecht Roretz and donated in 1919 by Robert Latzel; the curator Karl Kölbl registered in the book of acquisitions two individuals of *Lithobius asperatus* from Japan he obtained in 1879 together with other of Ludwig Koch's specimens from Japan.

***aspersus* ATTEMS**

Lithobius aspersus ATTEMS, 1899: 294

Current status: valid species?; under *Lithobius* (*Lithobius*) LEACH, 1814 according to KOS' check-list of the centipedes of former Yugoslavia (1992: 356) and STOEV's check-list of Balkan centipedes (1997: 99)

Family: Lithobiidae

Type material: 1 ♂, 2 ♀♀ (syntypes)

Type locality: Croatia, Monte Maggiore near Opatija "Stephanie Schutzhaus" [coll. Carl Attems 02.05.1893]

Inventory number: 3943

***aulacopus* LATZEL**

Lithobius aulacopus LATZEL, 1880b: 84

Current status: junior synonym of *Lithobius macilentus* L. KOCH, 1862, according to EASON (1972b: 129)

Family: Lithobiidae

Type material: a) 6 ♂♂, 4 ♀♀, juv. ♀, 1 immature; - b) 5 ♂, 10 ♀♀ (in bad condition); (syntypes)

Type locality: Austria: a) Oberösterreich, Kirchdorf; Salzburg, Untersberg; Steiermark, Graz; - b) "österr. Alpenländer" [coll. don. Robert Latzel]

Inventory number: a) 2083 (Acquisition 1884.I.13); b) 1061 (Acquisition 1919.)

Notes: most of the specimens in vial b) were completely macerated; four further syntypes from Salzburg, Robert Latzel leg., are preserved in the Zoologischen Museum Berlin (ZMB) (MORITZ & FISCHER 1979: 314).

***berkeleyensis* VERHOEFF**

Lithobius (*Paobius*) *berkeleyensis* VERHOEFF, 1937: 242

Current status: valid species, but its status has never been revised since the original description

Family: Lithobiidae

Type material: 2 ♂♂ (syntypes)

Type locality: USA, California, Berkeley [coll. Abraham E. Michelbacher, don. Karl W. Verhoeff 1.7.1940]

Inventory number: 1065

Notes: Karl W. Verhoeff's specimens in the NHMW are labelled only "Californien"; further three syntypes from "Berkeley, Kalifornien" are also preserved in the ZMB (MORITZ & FISCHER 1979: 314).

***bosniensis* LATZEL**

Lithobius grossipes var. *bosniensis* LATZEL, 1888b: 93

Current status: uncertain status, probably the same as *Eupolybothrus* (*Eupolybothrus*) *grossipes* (C. L. KOCH, 1847) but identity with *E. (E.) litoralis* (L. KOCH, 1867) is not excluded

Family: Lithobiidae

Type material: Robert Latzel labelled: "bright (hell) specimens: Dalmatia, dark (dunkel) specimens: Bosnia"; the specimens are easily distinguishable; bright: 6 ♂♂, 7 ♀♀ (no syntypes); - dark: 6 ♂♂, 5 ♀♀, 1 immature (syntypes)

Type locality: Bosnia, detailed localities are only mentioned in Latzel's paper: Celebic, Foca "Rjekathal bei Celebic" [coll. Justyn Karlinski 1887, don Robert Latzel]

Inventory number: 1380 (Acquisition 1919.)

Notes: although Latzel's original identification label is "*L. grossipes* var. *bosniensis*", CARL ATTEMS labelled the NHMW specimens as "*Polybothrus fasciatus bosniensis*"; JEEKELE (1967) mentioned *Eupolybothrus fasciatus* ssp. *bosniensis* (LATZEL, 1888) as well; EASON (1970: 290) listed the specimens from Bosnia and Herzegovina identified as *Lithobius* (*Polybothrus*) *fasciatus bosniensis* by VERHOEFF (1900) under *E. (E.) fasciatus* (NEWPORT, 1844), an endemic species of the Italian Apennines (FODDAI et al. 1995); not included in KOS' (1992) and STOEVS' (1997) check-list of Balkan centipedes.

***bostryx* BROLEMANN**

Lithobius bostryx BROLEMANN, 1897: 29

Current status: valid species, under *Lithobius* LEACH, 1814 according to BROLEMANN (1930: 287)

Family: Lithobiidae

Type material: 1 ♂ (syntype)

Type locality: France, Pyrénées-Atlantiques, "Basses-Pyrénées", Ahusquy [coll. Henri Brolemann 09. 1896, don. Henri Brolemann 05.09.1898]

Inventory number: 3945

***cacodontus* ATTEMS**

Lithobius cacodontus ATTEMS, 1904: 116

Current status: junior synonym of *Lithobius (Ezembius) giganteus* SSELIWANOFF, 1881 according to EASON (1986a)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Kyrgyzstan, Tien Shan, the locality labelled as "Ütsch-kili-Tasch" and in the Attems' paper indicated as "Etschkeli-Tasch", which is located at the upper reaches of the Sary-Dshas, 2980–3100 m [coll. György Almassy & Rudolf Stummer 25.08.1900, don. György Almassy & Rudolf Stummer]

Inventory number: 1933

Notes: ATTEMS (1927a: 243) designated *L. cacodonotus* as the type-species of *Porobius* ATTEMS, 1926, subgenus of *Lithobius* LEACH, 1814 according to ATTEMS (1938: 344); EASON (1986a: 183) borrowed the two specimens for the redescription of the species.

***caeculus* BROLEMANN**

Lithobius caeculus BROLEMANN, 1889: 273, fig. 1

Current status: valid species, under *Lamyctes* MEINERT, 1868 (see EDGECOMBE & GIRIBET 2003: 152)

Family: Henicopidae

Type material: a) 1 ♀; - b) 3 (not in good condition), 1 juv; (syntypes)

Type locality: Italy, Milano [a) coll. Henri Brolemann 02.11.1887, don. Henri Brolemann 12. 1898; - b) coll. Henri Brolemann, don. Robert Latzel]

Inventory number: a) 3899; - b) 4391 [Acquisition 1919.]

Notes: the original name, clearly deriving from the latin word *caecus* (= eye-less), was printed in BROLEMANN's (1889) original paper in the old-fashioned way of writing the latin diphthong "ae", with the two vowels very close together instead of separated, clearly not intending "oe"; BERLESE (1882) transferred *caeculus* in the henicopid genus *Henicops* NEWPORT, 1844, at the time considered a senior synonym of *Lamyctes* (see LATZEL 1880b), a genus later reevaluated by POCKOCK (1901) and including *caeculus* according to ATTEMS (1909b); SILVESTRI (1909: 39), misinterpreting the original and BERLESE and ATTEMS subsequent spelling, used for this species the latin epithet "*coeculus*", a term afterwards adopted by all authors, and erected the new genus *Lamyctinus*, a taxon he distinguished from *Lamyctes* by the absence of ocelli, designating *Lithobius coeculus* [sic] as the type species; BROLEMANN (1930: 337) considered this distinction as insignificant, a fact recently confirmed by EDGECOMBE & GIRIBET (2003: 152) based on molecular sequence data analysis (see also HOLLINGTON & EDGECOMBE 2004: 23).

caesar VERHOEFF

Lithobius (Polybothrus) caesar VERHOEFF, 1899: 455, fig. IV

Current status: valid species, under *Eupolybothrus (Schizopolybothrus)* VERHOEFF, 1934 according to JEEKEL (1967: 170) and ZAPPAROLI (1994: 31)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Greece, Corfu [coll. and don. Karl W. Verhoeff]

Inventory number: 1452

Notes: two more syntypes from Corfu are also preserved in the ZMB (MORITZ & FISCHER 1979: 316); type-species of *Schizopolybothrus* (JEEKEL 1963, 2005).

calcaratus ATTEMS

Anopsobius patagonicus calcaratus ATTEMS, 1928: 74, figs 18-22

Current status: valid subspecies, under *Anopsobius* SILVESTRI, 1899 (see HOLLINGTON & EDGECOMBE 2004: 25)

Family: Henicopidae

Type material: a) 6 microslides (arranged by Carl Attems) with female and male whole bodies, antennae, coxosterna, mouth parts, legs, gonopods (syntypes); b) 2 ♀♀ and 11 microslides (♀), histological preparation (arranged by Carol Prunescu) (syntypes)

Type locality: South Africa, Cape Province a) b) Cape Peninsula, Table Mountain, Platteklip Ravine and "Capeland" [don. Mus. Cape town]

Inventory numbers: a) 4397; - b) 3814

Notes: one female syntype was made available to Carol Prunescu for histological studies in 2002; after paraffin embedding, histological thin sections of 4 µm were prepared and stained with Hemalaun-Eosin (H-E), dehydrated and mounted in Eukitt.

canalensis ATTEMS

Lithobius (Alokobius) canalensis ATTEMS, 1952: 343

Current status: junior synonym of *Lithobius hispanicus* MEINERT, 1872 according to EASON's (1974b: 34) assumption, later confirmed by ZAPPAROLI (1984d: 8)

Family: Lithobiidae

Type material: 1 ♂ (lectotype des. Marzio ZAPPAROLI 1983), 1 ♀ (paralectotype des. Marzio ZAPPAROLI 1983)

Type locality: Spain, Sierra de Guadarrama, Mt. Canal/Villalba [coll. don. Herbert Franz 1951]

Inventory number: 3938

Notes: Ralph E. Crabill, 15.07.1964 (unpublished), reviewed the specimens and signed them as syntypes of *L. canalensis*.

***castanea* ATTEMS**

Lamyctes castanea ATTEMS, 1909b: 10, figs 58-61

Current status: valid species under *Lamyctes* (*Metalamyctes*) VERHOEFF, 1941 (see EDGECOMBE & GIRIBET 2003: 3, HOLLINGTON & EDGECOMBE 2004: 24)

Family: Henicopidae

Type material: 2 ♂♂, 2 ♀♀, 2 microslides (parts) (syntypes)

Type locality: South Africa, Cape, "cape flats" [coll. L. Schultze during the "Forschungsreise im westlichen und zentralen Südafrika" September 1904]

Inventory number: 3905

Notes: syntypes (totally macerated) from "Kapland, Schultze leg. September 1904" are also preserved in the ZMB (MORITZ & FISCHER 1979: 316).

***caucasica* ATTEMS**

Lithobius pusillus var. *caucasica* ATTEMS, 1907a: 7

Current status: uncertain status; although without reference to the var. *caucasica*, ZALESSKAJA (1978: 137) quoted the ATTEMS' (1907a) original record under *Lithobius pusillus* LATZEL, 1880

Family: Lithobiidae

Type material: 1 ♂ (syntype)

Type locality: Georgia, Bat'umi [coll. Anton J. Stuxberg 1897, don. Leonhard A. Jägerskiöld]

Inventory number: 4020

***circula* ATTEMS**

Lithobius peregrinus circula ATTEMS, 1902: 551

Current status: junior synonym of *Lithobius nigripalpis* L. KOCH, 1867 according to EASON (1990: 261), see also ZAPPAROLI (1994: 45)

Family: Lithobiidae

Type material: a) 1 ♀ (lectotype, des. Marzio ZAPPAROLI 1986), 3 ♀♀, 5 ♂♂, 3 juv. (paralectotypes); - b) 1 ♂, 1 ♀ (paralectotypes); - c) 1 ♀ (paralectotype); - d) 1 ♂ (paralectotype); - e) 3 juv. (paralectotypes); - f) 1 ♂, 1 ♀, 2 juv. (paralectotypes)

Type locality: Greece, Crete: a) Askifu; b) Agia Rumeli; c) Galos; d) İmbros-Schlucht; - e) Asomatos; - f) Daphnes [coll. Carl Attems]

Inventory number: a) 3981; - b) 3980; - c) 3982; - d) 3983; - e) 3984; - f) 3985

***cyrtopus* LATZEL**

Lithobius cyrtopus LATZEL, 1880b: 93

Current status: valid species, under *Lithobius* LEACH, 1814 according to EASON (1982: 14)

Family: Lithobiidae

Type material: a) 8 ♂♂, 8 ♀♀, 3 immatures; - b) 64 ♂♂, 46 ♀♀, 17 immatures; (syntypes)

Type locality: a) Czech Republic: "Mähren Tessthal"; Mt. Praded "Schlesien, Altvater"; Mt. Sniezka "Böhmen Schneekoppe"; Mts. Tatry "Oberungarn, Tatra"; - b) "Sudetenländer" [coll. don. Robert Latzel]

Inventory number: a) 1078 (Acquisitions 1884.I.15); - b) 1080 (Acquisition 1919.)

Notes: according to Ivan Tuf (2004, in litteris) it is not possible to decode the old locality name "Tessthal", probably only a local name no longer in use; five syntypes from "Böhmen, Latzel leg." are also preserved in the ZMB (MORITZ & FISCHER 1979: 317).

***czekanowski* SSELIWANOFF**

Lithobius czekanowski SSELIWANOFF, 1881: 130, fig. 7

Current status: probably a junior synonym of *Lithobius princeps* STUXBERG, 1876 according to EASON (1976: 100)

Family: Lithobiidae

Type material: 1 ♂, 2 ♀♀ (syntypes)

Type locality: Russia, W-Siberia [don. Anton W. Sseliwanoff to Robert Latzel, who donated the specimens to the museum in 1919]

Inventory number: 1315 [Acquisition 1919.]

Notes: the type status of the NHMW material is not entirely certain; Latzel received the specimens from Anton Sseliwanoff; the original description is based on specimens collected in the Lower Tunguska, a river in W-Siberia.

***dalmaticus* LATZEL**

Lithobius dalmaticus LATZEL, 1880b: 61

Current status: synonym of *Lithobius peregrinus* LATZEL, 1880 according to ZAPPAROLI (1992: 167)

Family: Lithobiidae

Type material: 1 ♂ (lectotype, des. Marzio ZAPPAROLI 1988)

Type locality: Dalmatia, near Dubrovnik [coll. Rudolf Fischer Benzon, don. Robert Latzel]

Inventory number: 1088 [Acquisition 1919.]

dawydoffi ATTEMS

Pokabius erratus (nom. nov.) *dawydoffi* ATTEMS, 1938: 349

Current status: uncertain status; subspecies of *Lithobius erratus* (ATTEMS, 1938), new name for *Paobius sulcipes* ATTEMS, 1927, secondary homonym of *L. sulcipes* STUXBERG, 1876 (see ATTEMS 1938: 303, EASON 1976: 101); the identity of *Pokabius erratus dawydoffi* has never been revised by modern authors since its original description; originally described under *Pokabius* CHAMBERLIN, 1912, a genus erected to accomodate a number of North American species probably separate from the E. Asiatic forms (*P. e. erratus*, *P. e. dawydoffi*), subgenus of *Lithobius* LEACH, 1814 according to ATTEMS (1953: 136), taxon of uncertain identity according to EASON (1974a); *P. e. dawydoffi* probably belongs to *Lithobius* (*Ezembius*) CHAMBERLIN, 1923, according to EASON (1981: 337)

Family: Lithobiidae

Type material: 1 ♂ (holotype)

Type locality: Vietnam (Tonkin), Mong Cai [coll. Constantin Dawydoff 1930–35]

Inventory number: 3957

dawydoffi ATTEMS

Anopsobius (*Anopsobiella*) *dawydoffi* ATTEMS, 1938: 351, figs 316–320

Current status: valid species under *Anopsobiella* ATTEMS, 1938 (see PRUNESCU & PRUNESCU 2004, HOLLINGTON & EDGEcombe 2004), type species of *Anopsobius* (*Anopsobiella*) ATTEMS, 1938 (see HOLLINGTON & EDGEcombe 2004, JEEKEl 2005)

Family: Henicopidae

Type material: a) 1 ♂, 18 microslides, histological preparation (arranged by Carol Prunescu 2004) (syntype); - b) 1 immature (syntype)

Type locality: Asia, Vietnam, S-Annam; a) Cau Da (Nhattrang); - b) Dai Lanh "Cap Varella" [coll. don. Constantin Dawydoff 1930–35]

Inventory number: a) 3815; - b) 3816

Notes: the syntype male a) was made available to Carol Prunescu for histological studies in 2001; he examined the genital system; after paraffin embedding, histological thin sections of 4 µm were prepared and stained with Hemalaun-Eosin (H-E), dehydrated and mounted in Eukitt.

denticulata ATTEMS

Lamyctes denticulata ATTEMS, 1907c: 423, Textfig. II

Current status: valid species, under *Lamyctopristus* (*Eumyctes*) CHAMBERLIN, 1951, according to CHAMBERLIN (1951: 109) (see also HOLLINGTON & EDGEcombe 2004: 24, as *L. (E.) denticulatus*)

Family: Henicopidae

Type material: 1 defective specimen (syntype)

Type locality: South Africa, Simonstad "Simonstown, Rifle Range unter einem Stein" [coll. during the "Deutschen Südpolar Expedition" by Ernst Vanhöffen, 26.07.1903]

Inventory number: 1473

Notes: EDGECOMBE & GIRIBET (2003: 3) consider the type species of *Lamyctes* (*Eumyctes*), *Henicops sinuatus* PORAT, 1893 to be more closely related to *Lamyctopristus* ATTEMS, 1928 than to *Lamyctes* MEINERT, 1868 and infer that other species such as *L. denticulatus* are not members of the genus *Lamyctes*; another defective syntype from "Simonstown, Kapland" is stored in the ZMB (MORITZ & FISCHER 1979: 318).

***denticulata* ATTEMS**

Lithobius pusillus denticulata ATTEMS, 1904: 179

Current status: uncertain status; probably a subspecies of *Lithobius lapidicola* MEINERT, 1872 according to EASON (1974b: 36), not included in KOS' (1992) check-list of the centipedes of former Yugoslavia; listed under *Lithobius lapidicola* in STOEV's (1997) check-list of Balkan centipedes and ZAPPAROLI's (2002: 28) catalogue of Greek centipedes

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Montenegro, Herceg–Novi, "Dalmatia, Castelnuovo" [coll. don. Karl Holdhaus 1903]

Inventory number: 4019

***dolomiticus* ATTEMS**

Lithobius dolomiticus ATTEMS, 1903: 24

Current status: junior synonym of *Lithobius tricuspis* MEINERT, 1872 according to EASON (1974b: 16)

Family: Lithobiidae

Type material: 1 ♂ (holotype)

Type locality: Austria, Tyrol "Rosengartengruppe, Grasleitenhütte" [coll. probably Carl Attems 05.08.1899]

Inventory number: 4144

Notes: ATTEMS (1927a: 247) considered *dolomiticus* as a subspecies of *L. tricuspis* and labelled the lot: "*L. tricuspis dolomiticus*, type of *L. dolomiticus*"

***dubosqui* BROLEMANN**

Lithobius (Oligobothrus) dubosqui BROLEMANN, 1896: 116

Current status: junior synonym of *Lithobius microps* MEINERT, 1868 according to EASON (1974b: 4, 7), a species currently referred to *Lithobius (Sigibius)* CHAMBERLIN, 1913 (see EASON 1983, 1993)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: France, Manche, Coutances [coll. M.? (probably Octave) Duboscq, don. Henri Brolemann]

Inventory number: 3977

***egens* ATTEMS**

Lithobius nigripalpis egens ATTEMS, 1951a: 400, fig. 13

Current status: uncertain status, probably a junior synonym of *Lithobius viriatus* SSELIWANOFF, 1880 (Marzio Zapparoli unpublished)

Family: Lithobiidae

Type material: 1 ♂ (lectotype, des. Marzio ZAPPAROLI 1986 unpublished)

Type locality: Iran, Sabzawaran, palm grove [coll. don. Heinz Löffler 1949/50]

Inventory number: 4521

***egregius* ATTEMS**

Lithobius (Alokobius) egregius ATTEMS, 1938: 348

Current status: although ATTEMS (1953: 139) confirmed the original generic and subgeneric classification and the status of valid species of this taxon, the identity of *Lithobius egregius* has never been revised by modern authors since its original description; EASON (1974a) considered *Lithobius (Alokobius)* ATTEMS, 1926 to be without any taxonomic significance; as the number of antennal articles exceeds 24, *L. egregius* would be placed in *Lithobius (Lithobius)* LEACH, 1814

Family: Lithobiidae

Type material: 1 ♂ (holotype)

Type locality: Vietnam "Annam", Ba Na [coll. Constantin Dawydoff 21.10.1931]

Inventory number: 3958

***ferraniensis* VERHOEFF**

Lithobius acuminatus ferraniensis VERHOEFF, 1925: 382

Current status: uncertain status, probably no more than a variation of *Lithobius cassinensis* VERHOEFF, 1925 according to EASON (1983: 131)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Liguria [don. Karl W. Verhoeff 01.07.1940]

Inventory number: 1054

***fissuratus* ATTEMS**

Lithobius (Australobius) fissuratus ATTEMS, 1934: 316

Current status: valid species, probably belonging to *Lithobius (Ezembius)* CHAMBERLIN, 1919 according to EASON (1978: 23)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Russia, Vladivostok [don. Museum Hamburg 1934]

Inventory number: 3959

***flavens* ATTEMS**

Dichelobius flavens ATTEMS, 1911: 154, figs 1-10

Current status: valid species according to EDGECOMBE (2004a)

Family: Henicopidae

Type material: a) 1 ♂ and 2 microslides ♂ parts (syntypes); - b) 3 microslides ♀ parts (syntype)

Type locality: SW-Australia a) Freemantle "Kalkhügel"; b) Eradu (Station 80) [coll. Wilhelm Michaelsen, "Hamburger südwest-australische Forschungsreise" 1905]

Inventory number: a) 3912; - b) 4022

Notes: the locality "Freemantle" is not specified as a type-locality in the original description, and very likely represents a mistake by Attems because Freemantle is a locality where Wilhelm Michaelsen collected during the expedition; syntypes from the SW Australian localities Gooseberry Hill and Donnybrook, both Michaelsen and Hartmeyer leg., and Eradu and Jarrahdale, legit not mentioned, are preserved in the ZMB (MORITZ & FISCHER 1979: 319) and in the Zoologischen Museum Hamburg (WEIDNER 1960: 72), respectively.

***folkmanovae* DOBRORUKA**

Eupolybothrus (Schizopolybothrus) folkmanovae DOBRORUKA, 1965: 396, fig. 3

Current status: junior synonym of *Eupolybothrus (Schizopolybothrus) caesar* (VERHOEFF, 1899) according to ZAPPAROLI (1984a: 200)

Family: Lithobiidae

Type material: 1 ♂ (holotype)

Type locality: Greece, Corfu "Höhle am Nordabhang des Pantokratorgebirges" [coll. Bernd Hauser 18.04.1960, don. Ludek J. Dobroruka]

Inventory number: 1675

franzi ATTEMS

Lithobius franzi ATTEMS, 1949: 5

Current status: uncertain status, although WÜRMLI (1972) included this taxon in the Catalogus Faunae Austriae as a valid species; *Lithobius franzi* has never been revised since its original description

Family: Lithobiidae

Type material: 4 specimens, badly damaged (Attems' file: 2 ♂♂, 2 ♀♀) (syntypes)

Type locality: Austria, Styria, Gleinalpe, Speikkogel, "hochalpin" [coll. don. Herbert Franz 1947]

Inventory number: 1186

Notes: the jar contains a label with "*Lithobius erythrocephalus*" written in the typical Attems handwriting; "the specimens were completely dried up" labelled by the curator Friedrich Kasy on 1 December 1958.

fuscus ATTEMS

Lithobius (Monotarsobius) fuscus ATTEMS, 1953: 150, figs 18, 19

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

Family: Lithobiidae

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

Type locality: Vietnam: a) N- Vietnam "Tonkin" Fan-Si-Pan; - b) S- Vietnam "Cochinchina" Soc Trang, - c) N- Vietnam "Tonkin" Chapa. [coll. Constantin Dawydoff 1938-39]

Inventory number: a) 3933; - b) 3934; - c) 3935

Notes: although a female is included among the syntypes, and in ATTEMS' (1953: 149) key of Indoaustrian species of *Lithobius (Monotarsobius)* the species is keyed among those with 2+2 spurs on the female gonopods, in its original description ATTEMS (1953) stated "Weibchen unbekannt" (female unknown).

gracilitarsis BROLEMANN

Lithobius piceus gracilitarsis BROLEMANN, 1898: 200

Current status: junior synonym of *Lithobius piceus* L. KOCH, 1862 according to EASON (1972b: 124)

Family: Lithobiidae

Type material: 1 ♀ (lectotype, des. Marzio ZAPPAROLI 1986)

Type locality: France, Pyrénées-Atlantiques, "Basses-Pyrénées", Ahusquy [coll. don. Henri Brolemann]

Inventory number: 3994

***helvolus* ATTEMS**

Lithobius (Lith.) helvolus ATTEMS 1951a: 398, figs 9, 10

Current status: valid species, under *Lithobius (Lith.)* LEACH, 1814 according to MATIC (1969: 110)

Family: Lithobiidae

Type material: 1 ♀ (lectotype, des. Marzio ZAPPAROLI 1986 unpublished)

Type locality: Iran, Kuh-räng-mountains, 150 km west of Isfahan, 2400 m [coll. don. Heinz Löffler 1949/50]

Inventory number: 4520

***hexodus* BROLEMANN**

Lithobius hexodus BROLEMANN, 1888: 276, tab. I, figs 2-4

Current status: junior synonym of *Lithobius pilicornis* NEWPORT, 1844, see FODDAI et al. (1995: 7)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (in bad condition, partly damaged) (syntypes)

Type locality: Italy, Lombardy, Brianza [coll. Henri Brolemann, don. Robert Latzel]

Inventory number: 3994 [Acquisition 1919.]

***honestus* ATTEMS**

Lithobius (Monotarsobius) honestus ATTEMS, 1938: 345

Current status: although ATTEMS (1953: 150) confirmed this species as belonging to *Lithobius (Monotarsobius)* VERHOEFF, 1905, its status has never been revised since its original description

Family: Lithobiidae

Type material: 1 ♂ (syntype)

Type locality: Vietnam, "S-Annam", Da Lat, Lang Biang (1500 m) [coll. Constantin Dawydoff 02.1931]

Inventory number: 3960

***hungaricus* LATZEL**

Lithobius mutabilis var. *hungaricus* LATZEL, 1880b: 101

Current status: synonym of *Lithobius mutabilis* L. KOCH, 1862 according to FOLKMANOVÁ (1949: 58); in ORSZÁGH's (2001) checklist of the centipedes of the Slovak Republic this taxon is listed under *L. mutabilis*

Family: Lithobiidae

Type material: 3 ♀♀ (syntypes)

Type locality: Hungary [coll. don. Robert Latzel]

Inventory number: 1234 [Acquisition 1919.]

***illyricus* LATZEL**

Lithobius illyricus LATZEL, 1880b: 115

Current status: valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 in KOS' (1992: 356) and STOEV's (1997: 100) check-list of Balkan centipedes

Family: Lithobiidae

Type material: a) 1 ♂, 1 ♀, 1 immature; - b) 1 ♂, 3 immatures; (syntypes)

Type locality: a) Italy, Gorizia "österr. Küstenlande"; - b) "österr. Küstenlande" [coll. don. Robert Latzel]

Inventory number: a) 2084 (Acquisitions 1884.I.22); - b) 3968 (Acquisition 1919.)

***inaequidens* ATTEMS**

Lithobius inaequidens ATTEMS, 1951a: 404, fig. 17

Current status: under *Lithobius* (*Lithobius*) LEACH, 1814 according to MATIC (1969: 111); the status of this species has never been revised since its original description

Family: Lithobiidae

Type material: 1 ♂ (syntype)

Type locality: Iran [coll. don. Heinz Löffler 1949/50]

Inventory number: 3962

***infossus* SILVESTRI**

Lithobius infossus SILVESTRI, 1894: 44

Current status: valid species; suspected as a senior synonym of *Lithobius dahlui* VERHOEFF, 1925 in FODDAI et al. (1995: 30); ZAPPAROLI (in press) formalized the identity

Family: Lithobiidae

Type material: 1 ♀ (lectotype, des. Marzio ZAPPAROLI 2004), 1 ♂ (paralectotype, des. Marzio ZAPPAROLI)

Type locality: Italy, Roma [coll. Filippo Silvestri, don. Robert Latzel, who obtained the specimens from Filippo Silvestri]

Inventory number: 1190 (Acquisition 1919.)

***inquirendus* ATTEMS**

Lithobius inquirendus ATTEMS, 1951a: 402

Current status: under *Lithobius* (*Lithobius*) LEACH, 1814 according to MATIC (1969: 111), the status of this species has never been revised since its original description

Family: Lithobiidae

Type material: 2 ♀♀ (syntypes)

Type locality: Iran, Sabzevaran [coll. don. Heinz Löffler 1949/50]

Inventory number: 3961

iranicus ATTEMS

Lithobius (Alokobius) iranicus ATTEMS, 1951a: 402, fig. 15

Current status: under *Lithobius (Lithobius)* LEACH, 1814 according to MATIC (1969: 111), the status of this species has never been revised since its original description

Family: Lithobiidae

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

Type locality: Iran a) Iran, Lahijan, "Buchenwald"; - b) Iran [coll. don. Heinz Löffler 1949/50]

Inventory number: a) 3963; - b) 3964

Notes: in the lot there is a label in Attems' handwriting: "*L. lissus* n. sp.", an unpublished name; ATTEMS (1951a), describing this new species, elected the name *iranicus* instead of *lissus*.

jugorum ATTEMS

Lithobius jugorum ATTEMS, 1904: 117

Current status: junior synonym of *Lithobius (Ezembius) giganteus* SSELIWANOFF, 1881 according to EASON (1986a)

Family: Lithobiidae

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

Type locality: a) Kirgisia "Turkestan" (B 1412); b) Kirgisia, Tien Shan, Kubergento-Pass (B 758) (above 4000 m) [coll. György Almassy & Rudolf Stummer b) 26.08.1900; don. György Almassy & Rudolf Stummer]

Inventory number: a) 1934; - b) 1935

Notes: EASON (1986a: 185) redescribed the two specimens.

karamani VERHOEFF

Lithobius karamani VERHOEFF, 1937: 215

Current status: valid species, under *Lithobius (Lithobius)* LEACH, 1814 according to STOEV (2005: 79)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (they are paralectotypes because STOEV (2005: 7) designated a lectotype in the myriapod collection of the "Zoologische Staatssammlung München" and a paralectotype in the collection of the Zoological Museum Berlin

Type locality: Macedonia [coll. Karaman?, don. K. W. Verhoeff 1.7. 1940]

Inventory number: 1192

Notes: the type status of the NHMW material is not entirely certain; although the locality given in the original description is Skopje, the label quotes only Macedonia; Verhoeff sold the specimens in 1940, three years after he had described the new species; syntype from "Skoplje, Südserbien" is stored in the ZMB (MORITZ & FISCHER 1979: 318).

***koenigi* VERHOEFF**

Lithobius koenigi VERHOEFF, 1891: 65

Current status: junior synonym of *Lithobius elongatus* NEWPORT, 1849 according to SILVESTRI (1896), a taxon considered to be the same as *Lithobius nudicornis* GÉRAIS, 1837 by SILVESTRI (1897); the identity of *koenigi* with *nudicornis* was also suspected by JEEKE (1967), who included *nudicornis*, *elongatus*, *koenigi* as well as *Lithobius impressus* C. L. KOCH, 1841, in *Eupolybothrus* (*Allopolybothrus*) VERHOEFF, 1907; JEEKE (1963: 195) designated *Lithobius koenigi* as the type-species of *Allopolybothrus*; EASON (1972a: 108) considered *impressus* as a valid species and *elongatus* as a subspecies of *impressus*; in FODDAI et al. (1995), *Eupolybothrus elongatus* is considered to be the same as *Eupolybothrus nudicornis*; ATTEMS labelled the lot as "*Lithobius impressus*"

Family: Lithobiidae

Type material: 2 ♂♂ (syntypes)

Type locality: Tunis [coll. Alexander König, March 1887, don. Karl W. Verhoeff 1896]

Inventory number: 1450 (Acquisition 1896.I.76)

***laccatus* ATTEMS**

Lithobius laccatus ATTEMS, 1951a: 400, figs 10-12

Current status: under *Lithobius* (*Lithobius*) LEACH, 1814 according to MATIC (1969: 112); species whose status has never been revised since its original description

Family: Lithobiidae

Type material: 8 ♂♂, 1 ♀, 1 ♀ (without gonopods), 1? (dissected), 1 microslide (female gonopods) (syntypes)

Type locality: Iran, Kuh-räng-Gebirge, 2400 m [coll. don. Heinz Löffler 1949/50]

Inventory number: 3970

***latus* ATTEMS**

Lithobius latus ATTEMS, 1903: 114

Current status: junior synonym of *Lithobius walachicus* VERHOEFF, 1901 according to MATIC (1965: 155)

Family: Lithobiidae

Type material: 3 ♀♀, 1 specimen without the genital segment (syntypes)

Type locality: Romania "SE- Siebenbürgen", Băile Tușnad [coll. Carl Attems, 08.1900]

Inventory number: 3971

Notes: ATTEMS (1903) described this species based on one female from "Bad Tusnád, SO. Siebenbürgen", Romania, easy recognisable by the supposed abnormality of its gonopods bearing 2+1 spurs, as stated by its author in the original paper, instead of the usual 2+2; in the Attems' catalogue are however mentioned under this name three females from "Tusnád" whereas in the NHMW collection is stored a vial with four specimens from "Tusnád", three females and one specimen without the genital segment. The three specimens correspond well to Attems' original description without showing the abnormality, and are here considered as syntypes, because Attems himself corrected four females instead of one in that exemplar of the original paper he used in the NHMW; it should therefore be possible that the specimen without the genital segment is the original one with the abnormality, probably dissected for a microslide preparation that has been lost afterwards.

leptopus LATZEL

Lithobius leptopus LATZEL, 1880: 53

Current status: junior synonym of *Eupolybothrus* (*Leptopolybothrus*) *tridentinus* (FANZAGO, 1874) according to EASON & MINELLI (1976: 186)

Family: Lithobiidae

Type material: a) 4 ♂♂, 9 ♀♀, 13 immatures; - b) 5 ♂♂, 5 ♀♀, 3 immatures; - c) 19 ♂♂, 27 ♀♀, 17 immatures; - d) 9 ♂♂, 14 ♀♀; (syntypes)

Type locality: a) Hungary, Croatia, Bosnia; - b) Austria: Carinthia (Millstadt), - Styria (Gesäuse, Hieflau); - c) Austria: "österreichische Alpenländer"; - d) Carniola, Dalmatia "österreichische Küstenländer" [coll. don. Robert Latzel]

Inventory number: a) 1422 (Acquisition 1919.); - b) 1423 (Acquisition 1984. I.5); - c) 1428 (Acquisition 1919.); - d) 3928 (Acquisition 1919.)

longipes ATTEMS

Archilithobius crassipes var. *longipes* ATTEMS, 1907a: 7

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

Family: Lithobiidae

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

Type locality: Ukraine, Krym: a) Alushta; - b) Simferopol [coll. Anton Stuxberg 1897, don. Leonhard A. Jägerskiöld, Museum Göteborg]

Inventory number: a) 3932; - b) 3939

Notes: although described from Russian localities, no comments on this taxon are in the ZALESSKAJA's (1978) fauna of lithobiomorph centipedes of the former USSR.

***macrocentrus* ATTEMS**

Lithobius macrocentrus ATTEMS, 1949a: 9

Current status: uncertain status; the identity of this species has never been revised by the modern authors after the original description; included in the two catalogues of the myriapods of the East Alps published by ATTEMS (1949b: 113, 1954: 300), although the latter posthumous, and in the Catalogus Faunae Austriae (WÜRMLI 1972: 9) as valid species under *Lithobius* LEACH, 1814 s. str.

Family: Lithobiidae

Type material: a) 6 ♂♂ (5 of which defective, missing legs 14 and/or 15), 3 ♀♀ (1 without legs 14 and 15); - b) 1 ♀ (missing antennae); - c) 8 ♂♂, 3 ♀♀, 1 defective, 1 microslide (head, female gonopods); (syntypes)

Type locality: Austria: a) Tyrol "hinteres Martal neben Ochsenalm am Bach beim Lawinenschnee"; - b) Upper Austria, Prieler Alm; - c) Tyrol, Gschnitztal, Schnurz, "Weihergrube" [coll. a) Otto Wettstein 25.08.1941; - b) Herbert Franz 1942; - c) Otto Wettstein]

Inventory number: a) 3972; - b) 3973; - c) 3974

Notes: material recently collected and identified as *L. macrocentrus* by E. H. Eason were published by THALER (1992: 156) from Northern Tyrol (Ötztal Alp, Festkogel, 3030 m), other material from the same high-alpine locality has been identified as *Lithobius schuleri* VERHOEFF, 1925 by Marzio Zapparoli (THALER & KNOFLACH, 2001); after the publication of the original description ATTEMS revised his taxon in *Lithobius borealis* MEINERT, 1868 and corrected his file without publishing the new status, however old records of *L. borealis* from NW Europe and elsewhere do not belong to the true *L. borealis* MEINERT, 1868 but to other species of *Lithobius* including *L. lusitanus valesiacus* VERHOEFF, 1935 or *L. lapidicola* MEINERT, 1872 according to EASON (1982).

***maroneus* ATTEMS**

Lithobius (Australobius) maroneus ATTEMS, 1953: 152, figs 20, 21

Current status: valid species, under *Australobius* CHAMBERLIN, 1920 according to EASON (1978: 22)

Family: Lithobiidae

Type material: a) 4 ♂♂, 7 ♀♀; 1 ♀, 1 ♂; 1 ♂, 4 ♀♀; - b) 10 ♂♂, 3 ♀♀, 5 immatures; 2 ♂♂, 1 ♀; 1 microslide (prosternum, coxae 14th segment); - c) 1 ♀; (syntypes)

Type locality: a) Laos, Xieng Kuang Plateau 1500 m; - b) Vietnam, "S-Annam" Pic de Lang Biang (2300 m); - c) Vietnam, S-Annam, Kon Tum [coll. Constantin Dawydoff 1938-39]

Inventory number: a) 3929; - b) 3930; - c) 3931

***mauritanus* VERHOEFF**

Monotarsobius mauritanus VERHOEFF, 1939: 96, figs 27, 28

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

Family: Lithobiidae

Type material: 1 ♀ (syntype)

Type locality: Mauritius [don. Verhoeff 12.4.1940]

Inventory number: 1329

Notes: another female syntype from Mauritius Is. is stored in the ZMB (MORITZ & FISCHER 1979: 322).

***memorabilis* ATTEMS**

Lithobius (Alokobius) memorabilis ATTEMS, 1951a: 405, fig. 18

Current status: species whose status has never been revised since its original description; under *Lithobius (Lithobius)* LEACH, 1814 according to MATIC (1969: 112); EASON (1974a) considered *Lithobius (Alokobius)* ATTEMS, 1926, without any taxonomic significance

Family: Lithobiidae

Type material: 2 ♂♂, one of them without the prosternum, which was prepared by Attems and mounted on an extra microslide, 2 ♀♀ (syntypes)

Type locality: Iran [coll. don. Heinz Löffler 1949/50]

Inventory number: 3978

***microdon* LATZEL**

Lithobius microdon LATZEL, 1886a: 170

Current status: valid species under *Lithobius* LEACH, 1814 according to ZAPPAROLI (1984b)

Family: Lithobiidae

Type material: 1 ♂ (lectotype, des. Marzio ZAPPAROLI 1982); 12 ♂♂, 9 ♀♀ (paralectotypes, des. Marzio ZAPPAROLI 1982)

Type locality: Algeria, Oran [don. Henri Gadeau de Kerville to Robert Latzel, don. Robert Latzel 1919]

Inventory number: 1343 [Acquisition 1919]

Notes: VERHOEFF (1936: 246) erected for *L. microdon* the new genus *Oranobius*, afterwards synonymized with *Lithobius* in ZAPPAROLI (1984b).

***micropora* ATTEMS**

Lamyctes micropora ATTEMS, 1909b: 11, figs 49-52

Current status: valid species under *Lamyctes (Metalamyctes)* VERHOEFF, 1941 (see EDGECOMBE & GIRIBET 2003: 3, HOLLINGTON & EDGECOMBE 2004: 24)

Family: Henicopidae

Type material: ♂, ♀, 2 microslides (♂ genital segment, legs) (syntypes)

Type locality: South Africa, Little Namaqualand "Klein-Namaland", Steinkopf [coll. Leonhard Schultze during the "Forschungsreise im westlichen und zentralen Südafrika" 1903–1905]

Inventory number: 3906

Notes: Attems confirmed in his original description "die beiden Basalglieder berühren sich fast", opposite to fig. 51 of the same paper, which clearly shows the bipartite first genital sternite; Greg Edgecombe (2005, in litteris) confirmed this when he studied the syntypes from "Steinkopf, Kl. Nama Land, L. Schultze leg." stored at ZMB (see MORITZ & FISCHER 1979: 322) in September 2001; VERHOEFF (1941: 97) erected the subgenus *Metalamyctes* with the type species, *Henicops africana* PORAT, 1871, defined by "Hüftglieder der männlichen Gonopoden in der Mediane breit verwachsen." EDGECOMBE & GIRIBET (2003) include several South African species in addition to the type *Lamyctes africana* (PORAT, 1871) to the subgenus *Metalamyctes*.

***modicus* ATTEMS**

Lithobius (Alokobius) modicus ATTEMS, 1938: 347

Current status: although ATTEMS (1953: 139) confirmed the original generic and subgeneric classification and the status of valid species of this taxon, the identity of *Lithobius modicus* has never been revised by modern authors since its original description; EASON (1974a) considered *Lithobius (Alokobius) ATTEMS*, 1926 without any taxonomic significance; since according to the original description the antennal articles are more than 24, *L. modicus* would be placed in *Lithobius (Lithobius)* LEACH, 1814

Family: Lithobiidae

Type material: 1 ♂, defective (holotype)

Type locality: Vietnam, S-Annam, Da Lat (1500 m) [coll. Constantin Dawydoff 26.01.1931]

Inventory number: 3979

***mongolicus* ATTEMS**

Lithobius aeruginosus var. *mongolicus* ATTEMS, 1901: 280

Current status: valid species, under *Lithobius (Ezembius)* CHAMBERLIN, 1919 according to EASON (1986a: 190), who examined the syntype male specimen from Ulan Bator (Mongolia) (NHMW 3932), and EASON (1986b: 59); closely akin to *Lithobius giganteus* SSELIWANOFF, 1881 and bearing little resemblance to *Lithobius aeruginosus* L. KOCH, 1862 according to EASON (1986a: 190)

Family: Lithobiidae

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

Type locality: Mongolia a) Ulan Bator "Urga"; - b) Burgaltay [coll. don. Eugen Zichy "3. asiatische Forschungsreise des Grafen Eugen Zichy"]

Inventory number: a) 3932; - b) 3939

***mononyx* LATZEL**

Lithobius tricuspidis var. *mononyx* LATZEL, 1888a: LXXXV

Current status: uncertain status according to EASON (1965: 292); valid species according to TOBIAS (1969, 1974) (see also EASON 1974b: 17)

Family: Lithobiidae

Type material: 2 ♂♂ (syntypes)

Type locality: France, Hautes-Pyrénées, Pic du Midi [coll. Jules Chalande, don. Robert Latzel]

Inventory number: 1262 [Acquisition 1919.]

***montanus* ATTEMS**

Lithobius erythrocephalus montanus ATTEMS, 1929:334

Current status: uncertain status according to STOEV (2001); not included in the KOS' (1992) check-list of centipedes of former Yugoslavia as *Lithobius* (*Lithobius*) *erythrocephalus montanus* ATTEMS in STOEV (1997: 100)

Family: Lithobiidae

Type material: a) 5 ♂♂, 4 ♀♀; - b) 3 ♂♂; - c) 4 ♂♂; (syntypes)

Type locality: Macedonia, Šar Planina mountains, Ljuboten: a) alpin; b) upper beech grove; - c) alpin [coll. Carl Attems 1906; a) 01.06.1906]

Inventory number: 1107

***nigrifrons* LATZEL & HAASE**

Lithobius nigrifrons LATZEL & HAASE in LATZEL 1880: 71

Current status: junior synonym of *Lithobius tenebrosus* MEINERT, 1872 according to EASON (1974b: 24)

Family: Lithobiidae

Type material: more than 200 (♂♂, ♀♀) (syntypes)

Type locality: W-Austria "österreichische Alpenländer" [coll. don. Robert Latzel]

Inventory number: 1304 [Acquisitionen 1919.]

***nodulipes* LATZEL**

Lithobius nodulipes LATZEL, 1880b: 68, fig. 30

Current status: valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 according to EASON (1982: 13)

Family: Lithobiidae

Type material: a) 2 ♂♂, 2 ♀♀, 6 "Juvenis", 2 "Immaturus"; b) 46 ♂♂, 46 ♀♀; (syntypes)

Type locality: a) Germany, Riesengebirge, Elbgrund "Böhmen, Elbgrund"; Czech Republic, Adamov "Mähren Adamsthal"; Austria, Lower Austria, Purkersdorf; Styria "Eisenerz"; Italy Trieste "Küstenlande Triest"; b) "Sudeten, österr. Alpenländer" [coll. don. Robert Latzel]

Inventory number: a) 3986; - b) 1303 [Acquisition a) 1884.I.7; - b) 1919.]

Notes: type species of the non valid subgenus *Lithobius* (*Nodobius*) CHAMBERLIN, 1952 (see JEEKELE 2005: 24).

***nodulosus* ATTEMS**

Lithobius latro nodulosus ATTEMS, 1949a: 10

Current status: uncertain status, included in the Catalogus Faunae Austriae as a subspecies of *Lithobius latro* MEINERT, 1872 (WÜRMLI 1972: 8)

Family: Lithobiidae

Type material: 1 ♂ (syntype)

Type locality: Austria, Styria, Wechselgebiet, Pinkatal, Schaueregg, 750 m [coll. Hans Strouhal 05.09.1947, don. Hans Strouhal]

Inventory number: 1199

***numidica* LATZEL**

Henicops numidica LATZEL, 1886a: 171

Current status: valid species, under *Lamycetopristus* (*Eumyctes*) CHAMBERLIN, 1951 according to CHAMBERLIN (1951: 109), see also HOLLINGTON & EDGE-COMBE (2004: 24, as *L. (E.) numidicus*)

Family: Henicopidae

Type material: ♂, ♀, 1 defective (syntypes)

Type locality: N. Africa, Algeria, Oran [don. Henri Gadeau de Kerville, don. Robert Latzel]

Inventory number: 1342 [Acquisition 1919.]

Notes: EDGE-COMBE & GIRIBET (2003: 3) considering the type species of *Lamycetes* (*Eumyctes*), *Henicops sinuatus* PORAT, 1893, more closely related to *Lamycetopristus* ATTEMS, 1928 than to *Lamycetes* MEINERT, 1868, infer that other species like *L. numidicus* are not members of the genus *Lamycetes*.

***oligotarsus* ATTEMS**

Henicops oligotarsus ATTEMS, 1911: 150

Current status: junior synonym of *Henicops dentatus* POCK, 1901 according to HOLLINGTON & EDGE-COMBE (2004: 6)

Family: Henicopidae

Type material: a) 1 ♀; - b) 2 ♂♂, 1 ♀; - c) 1 ♀; - d) 1 microslide with legs (♀ 4., ♂ 10., ♀ 12., ♂ 14., ♂ 14., ♂ 15.); (paralectotypes, des. Greg EDGECOMBE 2003)

Type locality: SW-Australia; a) Boyanup (station 146); - b) Brunswick Junction (station 139); - c) Albany (station 165); - d) SW-Australia [coll. Wilhelm Michaelsen "Hamburger südwest-australische Forschungsreise 1905"]

Inventory numbers: a) 3907; - b) 3908; - c) 3909; - d) 4369

orientalis ATTEMS

Lithobius (Alokobius) orientalis ATTEMS, 1953: 152

Current status: species whose status has never been revised since its original description, EASON (1974a) considered *Lithobius (Alokobius)* ATTEMS, 1926, without any taxonomic significance

Family: Lithobiidae

Type material: a) 1 ♂; - b) 1 ♂, 3 ♀♀, 1 defective specimen (with some eggs in both samples); (syntypes)

Type locality: N- Vietnam "Tonkin": a) Fan-Si-Pan; - b) Chapa [coll. Constantin Dawydoff 1938-39]

Inventory number: a) 3936; - b) 3937

pachymerus ATTEMS

Lithobius (Monotarsobius) pachymerus ATTEMS, 1938: 346, figs 311, 312

Current status: although ATTEMS (1953: 139) confirmed the original generic and subgeneric classification and the status of valid species of this taxon on new material collected (p. 151), the identity of *Lithobius pachymerus* has never been revised by modern authors since its original description

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ immature (syntypes)

Type locality: Vietnam, S-Annam, Cau Da [coll. Constantin Dawydoff 01. 1933]

Inventory number: 3989

pachyskeles ATTEMS

Monotarsobius tricalcaratus pachyskeles ATTEMS, 1927b: 304

Current status: species whose status has never been revised since its original description, listed in MURAKAMI (1965: 72)

Family: Lithobiidae

Type material: a) 20 ♂♂, 20 ♀♀, 2 juv.; - b) 5 ♂♂, 5 ♀♀; - c) 1 ♂, 1 ♀; (syntypes)

Type locality: Japan, since Sauter's original labels got lost, one locality is dubious: a) Kanagawa (surrounding of a pond "Teichrand") - b) Bukenji (?); - c) Yokohama (Haus); [coll. Hans Sauter a) 24.04.1905, b)c) 1905, don. H. Sauter]

Inventory number: a) 1330; - b) 1331; - c) 4149

***palustris* SSELIWANOFF**

Lithobius palustris SSELIWANOFF, 1880: 12, tab. 1, fig. 4

Current status: junior synonym of *Lithobius lucifugus* L. KOCH, 1862 according to ZALESSKAJA (1978: 101)

Family: Lithobiidae

Type material: 3 ♂♂, 3 ♀♀ (syntypes)

Type locality: Russia: Woronesch and Ryazan [don. Anton Sseliwanoff to Robert Latzel, Robert Latzel don.]

Inventory number: 4228

Notes: the type status of the NHMW material is not entirely certain; the localities on the label are Ryazan – a type locality according to the original description – and Woronesch – not a type locality; three further syntypes from "Rjatan" (obviously a different spell of Ryazan) are stored in the ZMB (MORITZ & FISCHER 1979: 323).

***papuanus* ATTEMS**

Bothropolys papuanus ATTEMS, 1914: 99

Current status: not included in the CHAMBERLIN's (1920) catalogue of myriapods of the Australasian Region; the status of this species has never been revised since its original description

Family: Lithobiidae

Type material: 1 microslide (2 tarsi) (part of the holotype)

Type locality: Oceania, Papua New Guinea, New Britain "Neu Pommern", Gazelle Peninsula, Ralum [coll. Dahl 04.08.1896, don. Museum Berlin]

Inventory number: 4161

Notes: the female holotype, labelled "Ralum Loroön, Neu Pommern, F. Dahl leg. 4. Aug. 1896", is housed in the ZMB (MORITZ & FISCHER 1979: 323).

***parietum* VERHOEFF**

Lithobius forficatus var. *parietum* VERHOEFF, 1899: 7

Current status: valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 according to EASON (1983: 124, 141)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

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

Inventory number: 1182

Notes: the male lectotype, formally designated by EASON (1983), is preserved in the British Museum (Natural History) (Coll. N. 1906.9.4.172).

***patens* ATTEMS**

Polybothrus leostygis patens ATTEMS, 1935: 144, figs 1, 2

Current status: junior synonym of *Eupolybothrus* (*Schizopolybothrus*) *caesar* (VERHOEFF, 1899) according to ZAPPAROLI (1984a: 200)

Family: Lithobiidae

Type material: 1 ♂, 1 specimen dissected (syntypes)

Type locality: Greece, Epirus, Rodavgi (Nisista) by a fount [coll. M. Beier 1.5.1933, don. M. Beier]

Inventory number: 1453

Notes: after the publication of the original description, ATTEMS revised the type specimens of his taxon identifying it as *Polybothrus caesar* VERHOEFF, 1899, correcting the label and his file but without publishing the new status.

***paucispinosus* ATTEMS**

Lithobius paucispinosus ATTEMS, 1952: 341

Current status: junior synonym of *Lithobius rubriceps* NEWPORT, 1845 according to SERRA (1980) and ZAPPAROLI (1984d: 4)

Family: Lithobiidae

Type material: 1 ♂ (lectotype, des. Marzio ZAPPAROLI 1984)

Type locality: Spain, North of Algeciras, "Cerro de Mirador" [coll. don. Herbert Franz 1951]

Inventory number: 3988

***pelidnus* HAASE**

Lithobius pelidnus HAASE, 1880: 33

Current status: valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 according to STOEVE (2002: 36), see also EASON (1982)

Family: Lithobiidae

Type material: 1 ♂ (syntype)

Type locality: Poland, Olawa "Preussisch Schlesien, Ohlau" [coll. E. Haase, don. Robert Latzel]

Inventory number: 3987 [Acquisition 1919.]

Notes: Latzel got the specimen from Haase; ten other syntypes from "Schlesien oder Steiermark" are stored in the ZMB (MORITZ & FISCHER 1979: 324).

***peregrinus* LATZEL**

Lithobius peregrinus LATZEL, 1880b: 63

Current status: valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 according to ZAPPAROLI (1992: 162)

Family: Lithobiidae

Type material: a) 1 ♀ (lectotype, des. Marzio ZAPPAROLI 1988); - b) 1 ♂, 2 ♀♀

Type locality: Dalmatia "Küstenland" [a) coll. E. Schreiber, don Robert Latzel; b) coll. ?, don. Robert Latzel]

Inventory number: 1979 [Acquisition 1919.]

Notes: ZAPPAROLI (1992) designated the lectotype according to LATZEL's (1880) original description, based on a single female; the origin of the other three specimens remains unclear, anyway Latzel must add them later.

pleodonta ATTEMS

Lithobius magnus var. *pleodonta* ATTEMS, 1904: 118

Current status: junior synonym of *Australobius magnus* (TROZINA, 1894) according to ZALESSKAJA (1978: 142), see also EASON (1997: 120)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Kyrgyzstan "Turkestan", Przheval'sk [collected probably by Kuzulenko, spring 1901, don. György Almásy & Rudolf Stummer]

Inventory number: 3976

podokes ATTEMS

Lithobius podokes ATTEMS, 1903: 114

Current status: MATIC (1966: 252) designated this species as a "*nomen nudum*" because of Attems' not sufficient description

Family: Lithobiidae

Type material: 1 ♂ (holotype)

Type locality: Romania "Siebenbürgen", Válaszut near Cluj-Napoca "Klausenburg"

Inventory number: 3947

polyodontus ATTEMS

Lithobius corcyraeus polyodontus ATTEMS, 1951a: 401, fig. 14

Current status: uncertain status, probably a junior synonym of *Lithobius viriatus* SSELIWANOFF, 1880 (Marzio Zapparoli unpublished)

Family: Lithobiidae

Type material: 1 ♂ (lectotype, des. Marzio ZAPPAROLI 1986, unpublished)

Type locality: Iran, Sabzawaran [coll. don. Heinz Löffler 1949/50]

Inventory number: 4522

***pontica* ATTEMS**

Lithobius corcyraeus var. *pontica* ATTEMS, 1907a: 5

Current status: uncertain status; although MURALEVITCH (1907, 1926) did not include this taxon in his first two contributions on the centipede fauna of Caucasus, probably because he was not updated of the ATTEMS' (1907a) original paper, in his subsequent more extensive catalogue of the lithobiomorph centipedes of the same area (MURALEVITCH 1929: 56) *Lithobius corcyraeus pontica* is considered as a junior synonym of *Lithobius kessleri* SSELIWANOFF, 1880; this interpretation is also followed by ZALESSKAJA (1978: 114); in 1986 Marzio Zapparoli (unpublished) identified the NHWM specimen as probably belonging to *L. viriatus-nigripalpis* group of species.

Family: Lithobiidae

Type material: 1 ♂ (syntype)

Type locality: Georgia, Bat'umi [coll. Anton J. Stuxberg 1897, don. Leonhard A. Jägerskiöld]

Inventory number: 4146

***praecursor* ATTEMS**

Lithobius praecursor ATTEMS, 1902: 549

Current status: junior synonym of *Eupolybothrus* (*Eupolybothrus*) *litoralis* (L. KOCH, 1847) according to ZAPPAROLI (1991: 22)

Family: Lithobiidae

Type material: 2 vials: 1 ♂; - 2 ♀♀, 2 ♂♂, 1 immature; (syntypes)

Type locality: Lebanon, Beirut [don. Adolf Plason 1872]

Inventory number: 1461

***psacadonotus* ATTEMS**

Lithobius psacadonotus ATTEMS, 1952: 343, fig. 16

Current status: junior synonym of *Lithobius* (*Lithobius*) *inermis* L. KOCH, 1856 according to EASON (1974b: 3, 40)

Family: Lithobiidae

Type material: a) 1 ♀, 1 microslide (prosternum); - b) 3 ♂♂, 1 ♀; - c) 1 ♂, 1 ♀; (syntypes)

Type locality: Spain: a) Serrania de Ronda; - b) Pantano de Alarcón; - c) Lin-ares [coll. don. Herbert Franz, 1951]

Inventory number: a) 3965; - b) 3966; - c) 3967

***pseudagilis* DOBRORUKA**

Lithobius pseudagilis DOBRORUKA, 1965: 394, fig. 2

Current status: junior synonym of *Lithobius viriatus* SSELIWANOFF, 1879 according to ZAPPAROLI (1994: 54)

Family: Lithobiidae

Type material: 1 ♂ (holotype)

Type locality: Greece, Corfu, Kassiope (under stones in an olive grove). [coll. Bernd Hauser 19.04.1960, don. Ludel J. Dobroruka]

Inventory number: 4145

pulcher ATTEMS

Paobius sulcipes var. *pulcher* ATTEMS, 1927b: 68

Current status: uncertain status, subspecies of *Lithobius erratus* (ATTEMS, 1938), new name for *Paobius sulcipes* ATTEMS, 1927, secondary homonym of *L. sulcipes* STUXBERG, 1876 (see ATTEMS 1938: 303, EASON 1976: 101); the identity of *P. s. pulcher* has never been revised by modern authors since its original description; originally described under *Paobius* CHAMBERLIN, 1916, a genus erected for a number of well-defined North American species (EASON 1976: 124), valid genus or subgenus of *Lithobius* LEACH, 1814 including also Asiatic species according to ATTEMS (1927) and VERHOEFF (1937: 242, 1942: 42, 1943: 125), all probably distinct from the Nearctic ones (EASON 1976: 124) and some of these moved to other genera/subgenera (see e. g. ZAPPAROLI 1999), synonym of *Lithobius* (*Monotarsobius*) VERHOEFF, 1905 according to ATTEMS (1938: 344); *P. s. pulcher* probably belongs to *Lithobius* (*Ezembius*) CHAMBERLIN, 1923

Family: Lithobiidae

Type material: 2 ♂♂, 4 ♀♀ (syntypes)

Type locality: Japan, Okayama [coll. don. Hans Sauter]

Inventory number: 1313

pusillus LATZEL

Lithobius pusillus LATZEL, 1880b: 108

Current status: junior synonym of *Lithobius lapidicola* MEINERT, 1872 according to EASON (1982: 23); valid species in Kos' (1992: 357) check-list of the centipedes of former Yugoslavia

Family: Lithobiidae

Type material: 4 ♂♂, 5 ♀♀, 5 juveniles, 3 immatures (syntypes)

Type locality: "Ostalpen, österr. Küstenlande" [coll. don. Robert Latzel]

Inventory number: 4021 [Acquisition 1919.]

Notes: originally designated as the type species of *Lithonannus* ATTEMS 1926, a subgenus of *Lithobius* LEACH, 1814 according to ATTEMS (1938: 344), synonym of *Lithobius* s. str. according to BROLEMANN (1930) (see also JEEKEL 2005: 21).

pygmaeus* LATZELLithobius pygmaeus* LATZEL, 1880b: 86**Current status:** valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 according to EASON (1982: 14)**Family:** Lithobiidae**Type material:** a) 3 ♂♂, 2 ♀♀; - b) 6 ♂♂, 10 ♀♀; (syntypes)**Type locality:** a) Austria, Carinthia "Loiblthal"; b) "Ostalpen, Küstenlande" [coll. don. Robert Latzel]**Inventory number:** a) 2082; - b) 4037 [Acquisition a) 1884.I.14; - b) 1919.]***rectifrons* ATTEMS***Lithobius rectifrons* ATTEMS, 1907b: 90**Current status:** valid species, under *Australobius* CHAMBERLIN, 1920 according to EASON (1978: 22)**Family:** Lithobiidae**Type material:** 1 ♂ (syntype)**Type locality:** W-Java, Tjibodas [coll. Karl Kraepelin 28.03.1904]**Inventory number:** 4140***rhiknus* ATTEMS***Lithobius rhiknus* ATTEMS, 1951a: 403, fig. 16**Current status:** valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 according to MATIC (1969: 110)**Family:** Lithobiidae**Type material:** a) 1 ♀; - b) 1 ♂ dissected, without the prosternum; (syntypes)**Type locality:** Iran, Province Mazandaran [coll. don. Heinz Löffler 1949/50]**Inventory number:** a) 3942; - b) 4044***rhysus* ATTEMS***Lithobius* (*Monotarsobius*) *rhysus* ATTEMS, 1934: 315**Current status:** valid species according to WANG & MAURIÈS' (1996: 90), although under *Monotarsobius* VERHOEFF, 1905 treated at genus rank; in the same way was considered a previous record from Formosa by CHAMBERLIN & WANG (1952: 183); ATTEMS (1953: 150) confirmed *rhysus* in *Lithobius* (*Monotarsobius*); the status of this species has however never been revised since its original description**Family:** Lithobiidae**Type material:** 2 ♂♂, 1 ♀, 1 microslide (claws of female gonopods) (syntypes)

Type locality: China, Province Fujian "Prov. Fukien" [don. Museum Hamburg 1934]

Inventory number: 4048

sicula ATTEMS

Lithobius intrepidus sicula ATTEMS, 1903: 115

Current status: uncertain status, on the basis of the original description this taxon has been probably established on an immature specimen of a *Lithobius* s. l. species not related with *L. intrepidus* MEINERT, 1868, a junior synonym of *L. macilentus* L. KOCH, 1862 according to EASON (1972b: 130, 1974b: 5), a species not present in S. Italy and Sicily (FODDAI et al. 1995)

Family: Lithobiidae

Type material: 1 ♂ (holotype)

Type locality: Italy, Sicily, Taormina [coll. Carl Attems 08.05.1898]

Inventory number: 3969

spiniger LATZEL

Lithobius spiniger LATZEL, 1888b: 93

Current status: valid species, under *Eupolybothrus* (*Schizopolybothrus*) VERHOEFF, 1934 according to JEEKEL (1967: 170)

Family: Lithobiidae

Type material: 2 ♂♂ (syntypes)

Type locality: Bosnia [coll. Justyn Karlinski 1887, don. Robert Latzel]

Inventory number: 1463 (Acquisition 1919.)

Notes: although in LATZEL's (1888b) original paper Foča is mentioned as the detailed locality of Bosnia from where the syntypes came from, this name is not on the label accompanying the syntypes.

steindachneri ATTEMS

Lithobius steindachneri Attems, 1927: 245

Current status: this species seems never to be fully described but ATTEMS (1927) mentioned it as having 4+4 prosternal teeth and conspicuous modification of the male 15th tibia; after the publication of the original name, ATTEMS reviewed the specimens and labelled them as "*Lithobius castaneopsis* BROLEMANN, 1932", without publishing the new status; *L. castaneopsis* is presently considered a junior synonym of *L. (L.) inermis* according to EASON (1975: 445) and the same author considered *L. steindachneri* as a probably junior synonym of *L. inermis* L. KOCH, 1856 (EASON 1975: 445, 448)

Family: Lithobiidae

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

Type locality: Morocco, Tétouan [coll. Franz Steindachner, don. Franz Steindachner 1899]

Inventory number: a) 1068; - b) 3946

straminae ATTEMS

Remylamyctes straminae ATTEMS, 1951b: 184, figs 24-32

Current status: junior synonym of *Lamyctes caeculus* (BROLEMANN 1889) according to EDGECOMBE (2004b)

Family: Henicopidae

Type material: 15 ♂♂ in 10 series (a-j) (tubes with alcohol), 3 slide mounted specimens, 3 SEM stubs (EDGECOMBE 2004b): G295 (figs 8-11, leg 14), G 296 dissected head (figs. 27, 28), G297 (figs 12-22, 24-28); (syntypes)

Type locality: Madagascar [all coll. and don. P. Remy]: a) Tananarive, 1 specimen, head and posterior end on slide [coll. 17.08.1947]; - b) Tananarive, 1 specimen [coll. 18.08.1947] legs in tubes (EDGECOMBE 2004b: figs 4-7), SEM stub G296; - c) Nossi Bé, Lac Djabalabe, 100m [coll. 09.09.1947]; - d) Fort-Dauphin, 2 specimens [coll. 29.10.1947], 1 slide; - e) Tananarive, parc de l'Institut Pasteur [coll. 22. 11. 1947]; - f) Tuléar; - Reunion: g) Saint-Denis, rue Monthyon, 50m [coll. 06.- 08.10.1947], dissected head (EDGECOMBE 2004b: figs 12-22, 24-28) SEM stub G297; - h) Saint-Denis, 3 specimens; - i) Saint Gilles, 2 specimens. - j) Brulé St. Denis 5.10. 1947, 3 specimens; - k) Reunion 1 slide

Inventory number: 3919

Notes: EDGECOMBE (2004b: figs. 1-31) had examined the complete syntype material of the NHMW with SEM research.

stramineus ATTEMS

Lithobius stramineus ATTEMS, 1927a: 245, figs 1-3

Current status: junior synonym of *Lithobius lusitanus* VERHOEFF, 1925 according to EASON (1982: 19)

Family: Lithobiidae

Type material: 2 ♂♂, 1 ♀ (syntypes)

Type locality: Spain, Prov. Tarragona, Flix [coll. F. Haas 1914-18, don. Museum Senckenberg 12. 1925]

Inventory number: 3975

stygius LATZEL

Lithobius stygius LATZEL, 1880b: 113

Current status: valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 according to KOS' (1992: 357) check-list of the centipedes of former Yugoslavia and STOEV's (1997: 99) check-list of Balkan centipedes

Family: Lithobiidae

Type material: a) 3 vials: 1 ♂, 1 defective specimen, 1 juv. ♀; - 1 ♂, 1 ♀; - 1 ♂, 5 ♀♀, 1 immature; - b) 1 ♂ (defective without legs); (syntypes)

Type locality: Slovenia, Carniola: a) Postojna Jama "Adelsberger Grotte" [coll. don. Robert Latzel; - coll. Latzel who gave the specimens to F. Feiller, who donated them to the "Hofmuseum"; - coll. don. Robert Latzel]; - b) Planinska Jama "Kleinhäusler Grotte" [coll. don. Ferdinand J. Schmidt]

Inventory number: a) 2085 [Acquisitions: 1884.I. 21; 1890.III.24, 1919.]; - b) 4049

Notes: concerning NHMW 4049, Latzel specified this specimen in the 1880 book as belonging to the "Viennese Hofmuseum"; the specimen was donated by Ferdinand J. Schmidt (1791–1878), a famous "old Austrian" speleologist; another female syntype from Postojna Jama is stored in the ZMB (MORITZ & FISCHER 1979: 326).

styriaca ATTEMS

Lithobius pygmaeus var. *styriaca* ATTEMS, 1895: 132

Current status: uncertain status; not included in Kos' (1992) check-list of the centipedes of former Yugoslavia

Family: Lithobiidae

Type material: 1 ♂ (syntype)

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

Inventory number: 4038

subtilis LATZEL

Lithobius subtilis LATZEL, 1880b: 91

Current status: valid species, under *Lithobius* (*Lithobius*) LEACH, 1814 according to EASON (1980)

Family: Lithobiidae

Type material: 3 ♂♂, 1 defective specimen (syntypes)

Type locality: Austria, Tyrol [coll. don. Robert Latzel]

Inventory number: 1308 [Acquisition 1919.]

sudeticus LATZEL & HAASE

Lithobius mutabilis sudeticus LATZEL & HAASE 1880 in HAASE (1880: 31)

Current status: uncertain status; many of the subspecific taxa described under *L. mutabilis* L. KOCH, 1872 are without taxonomic significance since they are based on unstable characters (see FOLKMANOVÁ 1949, EASON 1972b: 135); TAJOVSKÝ (2001) and ORSZÁGH (2001) listed this taxon under *L. mutabilis* in their checklist of centipedes of Czech and Slovak republics respectively

Family: Lithobiidae

Type material: more than 100 (♂♂, ♀♀) (syntypes)

Type locality: "Sudetenland"

Inventory number: 1229 [Acquisition 1919.]

Notes: the specimens are not syntypes in the strict sense; HAASE (1880) include the description of *L. mutabilis sudeticus* in his "Inaugural-Dissertation" and specified Latzel and Haase as authors of this subspecies; the NHMW got the specimens in 1919; it is not improvable whether those specimens were available for the first description, but anyway they are *L. mutabilis sudeticus* in the sense of LATZEL and HAASE (1880).

sulcipes ATTEMS

Paobius sulcipes ATTEMS, 1927b: 303

Current status: nomen praeoccupatum, ATTEMS (1938: 349) proposed *Lithobius erratus* (ATTEMS, 1938) as a new name for *Paobius sulcipes* ATTEMS, 1927, recognizing it as a secondary homonym of *L. sulcipes* STUXBERG, 1876 (see EASON 1976: 105); MURAKAMI (1963: 195), probably unaware of the nomenclatural change, placed *P. sulcipes* in the outmoded subgenus *Lithobius* (*Archilithobius*) STUXBERG, 1875

Family: Lithobiidae

Type material: a) 1 ♂, 3 ♀♀; - b) 5 ♂♂, 10 ♀♀; - c) 5 ♂♂, 17 ♀♀; (syntypes)

Type locality: Japan, since Sauter's original labels got lost, two localities are dubious: a) Bukenji (?); - b) Yamanaka (Suruga) (?); - c) Kanagawa [coll. H. Sauter a) & b) 1905, don. H. Sauter]

Inventory number: a) 1312; - b) 4150; - c) 4151

Notes: Attems had not quoted the later change of the name *Paobius sulcipes* in *Lithobius erratus*, neither in the vials nor in the catalogue.

taurica ATTEMS

Lithobius mutabilis var. *taurica* ATTEMS, 1907a: 6

Current status: uncertain status; according to ZALESSKAJA (1978: 101) this taxon is included, together with *Lithobius tauricus* SSELIWANOFF, 1878, among the synonyms of *L. mutabilis tauricus* SSELIWANOFF, 1878; as stated above, many of the subspecific taxa described under *L. mutabilis* L. KOCH, 1872 are without taxonomic significance since they are based on unstable characters (see FOLKMANOVÁ 1949, EASON 1972b: 135)

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Ukraine, Krym, Simferopol [coll. Anton J. Stuxberg 1897, don. Leonhard A. Jägerskiöld]

Inventory number: 4227

Lithobius dieuzeidei tiziensis VERHOEFF, 1938: 302

Current status: junior synonym of *Lithobius alluaudi* BROLEMANN, 1924 according to ZAPPAROLI (1984c: 74)

Family: Lithobiidae

Type material: 1 ♀ (syntype)

Type locality: Morocco, "Atlas" [don. Karl W. Verhoeff 01.07.1940]

Inventory number: 1089

Notes: although the label accompanying the female NHMW syntype quote the generic locality "Atlas", the type localities mentioned in VERHOEFF's (1938) original paper clearly refer to Atlas mountains, Morocco; seven other syntypes are stored in the coll. Verhoeff, in Zoologisches Museum, Humboldt Universität, Berlin (ZAPPAROLI 1984).

***transalpinus* LATZEL**

Lithobius mutabilis var. *transalpinus* LATZEL, 1880a: 101

Current status: uncertain status, many of the subspecific taxa described under *Lithobius mutabilis* L. KOCH, 1872 are without any taxonomic significance since they are based on unstable characters (see FOLKMANOVÁ 1949, EASON 1972b: 135); included in the Catalogus Faunae Austriae (WÜRMLI 1972: 9) as *L. mutabilis transalpinus* LATZEL, 1880; VERHOEFF (1935: 475) considered Latzel's variation as a subspecies of *L. latro* MEINERT, 1872

Family: Lithobiidae

Type material: 11 ♂♂, 18 ♀♀ (syntypes)

Type locality: "Küstenland, österr. S-Alpen" [coll. don. Robert Latzel]

Inventory number: 1233 [Acquisition 1919.]

***transsylvanicus* LATZEL**

Lithobius (Eulithobius) transsylvanicus LATZEL, 1882: 332

Current status: valid species, under *Eupolybothrus (Mesobothrus)* VERHOEFF, 1937 according to JEEKEL (1967: 173)

Family: Lithobiidae

Type material: a) 1 ♂, 1 ♀, 1 immature; b) 5 ♂♂, 6 ♀♀, 2 immatures; (syntypes)

Type locality: a) Romania, Orsova (Ungarn, Banat); - b) "Südungarn" (type locality!), Dalmatia [coll. don. Robert Latzel]

Inventory number: a) 2008 (Acquisition 1884.I.3); b) 4209 (Acquisition 1919)

Notes: according to LATZEL's (1882) paper only specimens from "Südungarn" are syntypes, they are stored together in the same vial with *Eu. transsylvanicus*

from Dalmatia, collected by Latzel as well; two other female syntypes from "Banat" and "Hungary" are stored in the ZMB (MORITZ & FISCHER 1979: 327); type species of *Mesobothrus* VERHOEFF, 1937 (JEEKELE 2005).

***tricalcaratus* ATTEMS**

Monotarsobius tricalcaratus ATTEMS, 1909a: 20, tab. 1, fig. 5

Current status: although this species was repeatedly quoted in checklists and papers on N. American and E. Asian fauna (e. g., CHAMBERLIN 1946: 177, MURAKAMI 1965: 72, KEVAN 1983: 2949), its status has never been revised since the original description

Family: Lithobiidae

Type material: a) 1 ♂, 1 ♀; - b) 2 ♂♂, 2 ♀♀; - c) 1 microslide: 3 individuals in bad condition 1 ♂, 1 ♀, 1 juv.; (syntypes)

Type locality: a) Alaska, Port Clarence (South Cap Prince of Wales); - b) Russia, Chukotskiy Poluostrov, Nunyamo; - c) Alaska, Port Clarence (South Cap Prince of Wales) [coll. Vega Expedition a) & c) 22. 07.–26. 07. 1879; - b) 07. 1879, don. Leonhard A. Jägerskiöld, Museum Göteborg]

Inventory number: a) 4147; - b) 4148; - c) 4160

Notes: as historical remark, it may be noted that the syntypes of this species, as well as those of *Monotarsobius arcticus* ATTEMS, 1909 (see above), 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.

***tricholophus* ATTEMS**

Bothropolys tricholophus ATTEMS, 1938: 349, figs 314, 315

Current status: although ATTEMS (1953: 139) confirmed the original generic classification and the status of valid species of this taxon, its status has never been revised by modern authors since the original description; not included in the MATIC's (1974) key to the East Asiatic species of the genus *Bothropolys* WOOD, 1862

Family: Lithobiidae

Type material: a) 4 ♂♂; b) 2 ♂♂, 1 dissected; - c) 4 ♂♂, 3 ♀♀, 1 immature; (syntypes)

Type locality: Vietnam, S-Annam: a) Pic de Lang Biang (2300 m); - b) Djiring (1000 m); - c) Da Lat (1500 m) [coll. Constantin Dawydoff] b) 01.1933; - c) 26.01.1931]

Inventory number: 3925

***triops* ATTEMS**

Lamyctes triops ATTEMS, 1908: 186, fig. 1

Current status: uncertain status; ATTEMS (1909b: 12) established the monotypic genus *Marcianella* for the single species *Marcianella triops* (ATTEMS,

1908); later (ATTEMS 1928: 64) he maintained *Marcianella* in Henicopidae opposite to VERHOEFF (1931: 307) who regarded *M. triops* as described on an immature specimen of *Lithobius microps* MEINERT, 1868, clearly belonging to the Lithobiidae; see also EDGECOMBE et al. (2002: 32)

Family: presumably Lithobiidae

Type material: 1 individual (syntype)

Type locality: Europe, Elba [coll. don. Karl Holdhaus]

Inventory number: 3911

trogodytes LATZEL

Lithobius trogodytes LATZEL, 1886b: 104

Current status: valid species, under *Lithobius* LEACH, 1814

Family: Lithobiidae

Type material: 2 ♀♀ (syntypes)

Type locality: S-France, Ariège, Grotte du Mas-d'Azil, Grotte de Peyronnard [coll. Jules Chalande, don. Latzel]

Inventory number: 1265 [Acquisition 1919.]

Notes: in the original description only the Grotte du Mas-d'Azil is mentioned as collecting site; Latzel wrote "S-France, Grotte" on the label in the jar; Attems specified "Grotte de Peyronnard" on another label, but it is unclear from where he got this information.

turkestanicus ATTEMS

Lithobius curtipes turkestanicus ATTEMS, 1904: 119, tab. 8, fig. 2

Current status: junior synonym of *Lithobius* (*Monotarsobius*) *ferganensis* TROTZINA, 1880 according to EASON (1997: 120) and ZAPPAROLI (1999: 131); see also EASON (1972b: 115)

Family: Lithobiidae

Type material: a) 2 ♂♂, 2 ♀♀; - b) 1 ♂, 3 ♀♀; - c) 2 ♂♂, 1 ♀; (syntypes)

Type locality: Kyrgyzstan, Tien Shan: a) "Turkestan" (B1412); - b) Ara-Bel 4000 m (B714); - c) "Kok-dschajak" (B 927) [coll. György Almassy & Rudolf Stummer: b) 20.08.1900; c) 10.09.1900, don. György Almassy & Rudolf Stummer]

Inventory number: a) 3950; - b) 3951; - c) 3952

typhlus LATZEL

Lithobius typhlus LATZEL, 1886a: 169

Current status: valid species whose status has never been revised since its original description, the only redescription known is in BROLEMAN (1930: 300); according to DEMANGE & SERRA (1978: 44) and SERRA (1983: 78) *L.*

typhlus belongs to a group of cave adapted Pyrenean Lithobiidae needing of revision including *Lithobius cavernicola* FANZAGO, 1877, *L. allotyphlus* SILVESTRI, 1908, *L. racovitza* MATIC, 1958 and *L. ambulotentus* DEMANGE & SERRA, 1978

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: France, Pyrénées-Orientales, Grotte de Villefranche [don. Henri Gadeau de Kerville to Robert Latzel, Robert Latzel don.]

Inventory number: 1250 [Acquisition 1919.]

*viriatu*s SSELIWANOFF

*Lithobius viriatu*s SSELIWANOFF, 1880: 11, tab. I, fig. 3

Current status: valid species, under *Lithobius* LEACH, 1814 according to MATIC & DARABANTU (1968: 113), but see below

Family: Lithobiidae

Type material: 1 ♂, 1 ♀ (syntypes)

Type locality: Ukraine, Sevastopol [don. Robert Latzel 1919, Latzel got the specimens from Anton Sseliwanoff]

Inventory number: 1267 (Acquisition 1919)

Notes: Marzio Zapparoli identified the two specimens in the NHMW collections as *L. forficatus* in 1986; in SSELIWANOFF's (1880) original description 15 specimens are listed; possibly some of them did not really belong to *L. viriatu*s, as the two Latzel obtained.

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