



An annotated world catalogue of the millipede order Callipodida (Arthropoda: Diplopoda)*

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*Dedicated to Dr. Richard Hoffman, an eminent millipede specialist, on the occasion of his 80th birthday

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Abstract

The paper presents the first world catalogue of the millipede order Callipodida (Diplopoda: Helminthomorpha). The order is currently known to comprise 3 suborders, 7 families, 35 valid (sub-)genera and 133 (sub-)species. Furthermore, 10 nominal species, whose taxonomic status has not been considered in any publications other than the first descriptions, are listed as *species inquirenda*. The synonymy of *Paracortina wangi* Stoev, 2004 under *Angulifemur unidigitis* Zhang, 1997 is formalized here. Given for each (sub-)species are the original description with author, year, pages and figures; complete chronological list of subsequent faunistic or taxonomic references; type material and, if known, current repository; type locality; species range; and sometimes additional remarks on its status or distribution. The relevant taxonomic and faunistic literature on Diplopoda was consulted to complete the data presented here. The species list is based on a species index card catalogue housed in the Museum National d'Histoire Naturelle in Paris ("Fichier iconographique

Brolemann et successeurs”), with additions from the Zoological Record and various on-line resources. A bibliography containing 286 taxonomic references relevant to the Callipodida is included.

Key words: Myriapoda, Nematophora, catalogue, synonymy, new records, bibliography

Introduction

While we are facing rapidly declining biodiversity and disappearing habitats on a world-wide scale, mega-diverse organism groups remain poorly known and even less studied. Accelerating taxonomic and systematic discovery of our organismal diversity is a declared goal of recent initiatives such as the National Science Foundation’s Planetary Biodiversity Inventory Program, and various Biodiversity conferences (e.g., see Soltis 2005). New technologies, such as digital imaging and on-line electronic data exchange support advances in biodiversity research. However, crucial components of the scientific research infrastructure are still missing and crippling rapid taxonomic discovery and description. Access to the primary literature still requires time-consuming library searches, and reliable road maps for such searches are needed. Taxonomic catalogues, containing all relevant references for each taxon, its status and status change over time form the very foundation of all subsequent taxonomic and ecological research. Attractively, such catalogues can now be served on-line, continually reviewed, improved and updated by the scientific community, making such a tool universally available.

Out of the 16 extant millipede orders hitherto known, only two, Siphonophorida and Glomeridesmida, have been an object of contemporary review at a species level (cf. Jeekel 2001, 2003). Here we present the third millipede species catalogue, focusing on the order Callipodida. Petra Sierwald’s millipede program at Field Museum is completing a global millipede species catalogue, which is destined to be served on-line within the near future.

Order Callipodida

The Callipodida are a moderately diverse millipede order, currently comprising 3 suborders, 7 families, 35 valid (sub-)genera and 133 valid (sub-)species. In addition, 10 nominal species, almost all of them described in the 19th century, have not been considered in the recent taxonomic literature, and their status presently remains uncertain. Two of the suborders, Sinocallipodidea and Callipodidea, are known from only 2 and 6 species respectively; the third suborder, Schizopetalidea, is more diverse and exceeds 120 species currently considered valid.

Callipodidans are helminthomorphous millipedes with an elongated, cylindrical body composed of 40-75 pleurotergites, moderately long legs and antennae, and a telson bearing a pair of spinnerets (Fig. 1). Their body size varies from about 15 to more than 100 mm (Hoffman 1982). Traditionally, the order is placed together with the orders Chordeumatida Pocock, 1894 and Stemmiulida Cook, 1895 in the superorder Nematophora Verhoeff, 1913, although the phylogenetic relationships within the Diplopoda are not resolved yet. Putative apomorphies for Callipodida are the divided hypoproct and anal valves; the extrusable vulvae, and also the specific shape of the male gonopods, which are carried withdrawn deep in a body pouch (Sierwald & Bond 2007).

Members of the order occur in the Northern and Eastern Mediterranean region, central and SE Asia, and central and southern North America (Fig. 2). They are unknown in Africa, South America, Australia and Oceania. The greatest diversity exists in the Balkan Peninsula, Asia Minor and southwestern parts of the USA, although the still unexplored fauna of SE Asia is expected to be even richer (Shear et al. 2003). Most callipodidans inhabit caves or other rocky biotopes such as stony debris and rock crevices. As a whole the group can



FIGURE 1. *Eurygyrus rufolineatus* C.L. Koch, 1847 from Turkey (ZMUC).

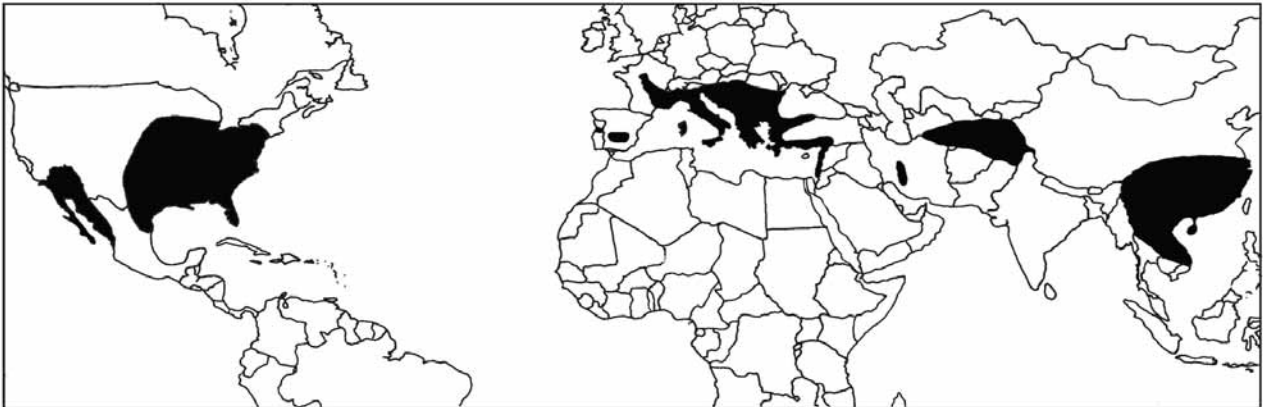


FIGURE 2. World distribution of the Callipodida (redrawn with modifications from Shear et al. 2003).

be considered petrophilic. While most of the Mediterranean species are cave-dwellers, only a few of the Paracortinidae and Sinocallipodidae occurring in China and Vietnam, and only a single genus (*Tetracion*) in North America are reported from caves. Although completely blind species have not been discovered yet, species like *Bollmania beroni* and *Sinocallipus simplipodicus*, show certain traits of troglomorphy. Another example of cave adaptation, i.e. guanophily, was observed in *Balkanopetalum rhodopinum*, which was found buried inside a heap of fresh bat guano in the Yubileina Cave, Bulgaria (P. Stoev observ.). Callipodidans also inhabit relatively dry habitats like the semi-deserts in Iran and Afghanistan. In respect to altitude, they usually

occur in lowlands up to 1500–1700 m in the mountains. There are, however, some exceptions, e.g. tentatively new species of *Bollmania* have been reported from 3030 m in Sabz Tchachmeh, Afghanistan (cf. Stoev & Enghoff 2005).

Millipedes are traditionally considered subsisting on decomposing plant tissue, although there are also several examples of carnivory. A significant share of documented cases of carnivory refer to species of the Callipodida. Verhoeff (1900d), Strasser (1935), Manton (1958) and Hoffman & Payne (1969) documented carnivory and even cannibalism in *Apfelbeckia lindenfeldii*, *Callipus foetidissimus*, and *Abacion magnum*, etc. They were observed feeding on worms, flies, spiders, and juvenile millipedes.

Historical review

Iulus foetidissimus (now *Callipus foetidissimus*) was the first callipodid millipede described from Piza by the Italian Paolo Savi as early as 1819. Only one year later the American naturalist Constantine Rafinesque Schmalz described *Abacion tessellatum* from an unspecified locality in North America, foresightfully attributing it to a new genus. It was George Newport (1844a) who first realized the separate status of callipodidans and erected the family Lysopetalidae to accommodate them. Fifty years later, Reginald Innes Pocock (1894) first proposed the subordinal rank of Callipodida. In the whole nineteenth century (the pre-Verhoeffian epoch) only a few publications reporting new species of Callipodida (e.g. Newport 1844b, C.L. Koch 1847, L. Koch 1867, Latzel 1884, Daday 1889c) were published. The most significant progress on the taxonomy and systematics of the group was made by Karl Verhoeff, who published altogether 47 papers entirely or partly devoted to Callipodida. Among these, the publications “Zur vergleichenden Morphologie, Phylogenie, Gruppen- und Artsystematik der Lysiopetaliden” (Verhoeff 1900a) and “Neues System der Diplopoda-Lysiopetaloida..” (Verhoeff 1909b) are especially important contributions.

The Austrian myriapodologist Carl Attems erected 5 genera (none of which are valid presently) and about a dozen species from Iran, Pakistan, the Balkan Peninsula and Asia Minor (e.g. Attems 1902, 1936, 1951a). In the same period, serious contributions to callipodid taxonomy and systematics were also made by Harold Loomis, especially in his milestone paper “Crested millipedes of the family Lysiopetalidae in North America...” (Loomis 1937), and Ralph Chamberlin, who described several new genera and species from North America (e.g. Chamberlin 1943b, 1946).

In contemporary times, Richard Hoffman began to publish on Callipodida in the 1950s, and owing to his efforts most of the mistakes of Verhoeff and older authors were corrected, several new genera were proposed, and the systematic arrangement of the whole order was re-evaluated (e.g. Hoffman 1973, 1980; Hoffman & Lohmander 1964). In his milestone work “Classification of the Diplopoda” (1980) the author stated that the higher classification of the order remains entirely unsettled and in need of a basic overhaul. In the same period, the Italian myriapodologist Carl Strasser, who worked mainly on the millipede fauna of the Balkan and Apennine peninsulas, described two (sub-)genera and 10 (sub-)species in altogether 27 papers dealing with Callipodida (e.g. Strasser 1966a, 1973b, 1974a,b, 1976). Demange (1967) studied in detail the morphology of callipodid gonopods.

More recently, Rowland Shelley made revisions of the North American subfamily Tynommatinae, and the genera *Abacion*, *Delophon*, *Texophon*, etc. (cf. Shelley 1979, 1984, 1996). Stoev, together with Enghoff and Geoffroy, revised the families Caspiopetalidae and Paracortinidae, the tribe Apfelbeckiini, and the Palearctic genera *Dorypetalum* and *Balkanopetalum* (cf. Stoev & Enghoff 2003, 2005, 2006, 2007; Stoev & Geoffroy 2004).

It is also worth mentioning the work of the Chinese zoologist Chongzhou Zhang who was the first to discover Callipodida in SE Asia, and who described altogether two families and 10 new species from the extremely poorly known southern Chinese provinces of Sichuan, Yunnan and from Tibet (cf. Zhang 1993, 1997; Wang & Zhang 1993).

New taxa in Callipodida have been described also by Henry Brölemann, Hans Lohmander, Nell B. Causey, Michael R. Gardner, John S. Buckett, Jean-Paul Mauriès, William A. Shear, Sergei I. Golovatch, Jörg Spelda, and others.

Material and methods

The initial species list was generated from the “Fichier iconographique Brolemann et successeurs” housed at the Muséum National d’Histoire Naturelle in Paris, the “Zoological Record”, as well as the whole relevant taxonomic and faunistic literature on Diplopoda. On-line resources were screened repeatedly for possible information on type repositories and other faunistic or taxonomic information. Hoffman’s (1999) checklist of the millipedes of North America was the main source for the catalogue of Nearctic species.

The catalogic part has the following structure: 1) valid species/ genus combination with author and year; 2) name after original description, author, year, abbreviated journal title, volume/issue, pages and figures (if any); 3) complete chronological list of subsequent faunistic and taxonomic references; 4) type locality; 5) type material and repository (if known); 6) species range. In some cases remarks on the species status, reliability of certain records or geographic data follow after the main information. Types that have been personally examined by the first author are marked by an asterisk *. For the repositories of American species we rely on the data published in Hoffman’s checklist (1999), in other cases also on information obtained from on-line resources and from curators and collection managers of the respective collections.

All taxa described from 1900 onwards as varieties are not listed separately but included under the respective species or subspecies. In a few cases doubtful subspecies are included in the list of synonyms of the respective taxon and the reasons for this action are presented. The species range usually specifies the country, and sometimes the exact administrative or geographical region is given.

List of acronyms and abbreviations

AMNH	American Museum of Natural History, New York (USA)
UABD	Alabama Museum of Natural History, Tuscaloosa (USA)
BMNH	The Natural History Museum, London (UK)
CAS	California Academy of Sciences, San Francisco (USA)
FMNH	Field Museum of Natural History, Chicago (USA)
GNM	Göteborgs Naturhistoriska Museet, Göteborg (Sweden)
HNHM	Hungarian Natural History Museum, Budapest (Hungary)
IZCAS	Institute of Zoology, Chinese Academy of Sciences, Beijing (China)
LACM	Los Angeles County Museum of Natural History, Los Angeles (USA)
MZUL	Museo di Zoologia dell’ Università di Roma “La Sapienza”, Rome (Italy)
MCZ	Museum of Comparative Zoology, Harvard University, Cambridge (USA)
MHNG	Muséum d’Histoire Naturelle, Genève (Switzerland)
MNHN	Muséum National d’Histoire Naturelle, Paris (France)
MSNM	Museo Civico di Storia Naturale, Milano (Italy)
NCSM	North Carolina State Museum of Natural Sciences, Raleigh (USA)
NHMW	Naturhistorisches Museum Wien, Vienna (Austria)
NHRS	Swedish Museum of Natural History, Stockholm (Sweden)
RMNH	Nationaal Natuurhistorisch Museum, Leiden (The Netherlands)
SOFM	National Museum of Natural History, Sofia (Bulgaria)

SMF	Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt (Germany)
UCDC	R.M. Bohart Museum of Entomology, University of California at Davis (USA)
USNM	National Museum of Natural History (Smithsonian Institution), Washington D.C. (USA)
ZIN	Zoological Institute, St. Petersburg, St. Petersburg (Russia)
ZMAN	Zoological Museum, University of Amsterdam, Amsterdam (The Netherlands)
ZMB	Humboldt Universität zu Berlin, Museum für Naturkunde, Berlin (Germany)
ZMUC	Natural History Museum of Denmark, University of Copenhagen, Copenhagen (Denmark)
ZMUH	Zoologisches Museum Hamburg, Hamburg (Germany)
ZSM	Zoologische Staatssammlung München, Munich (Germany)

HT	holotype
PT	paratype/s
LT	lectotype
PLT	paralectotype/s
ST	syntype/s
M/MM	male/males
F/FF	female/females
Juv.	juvenile/s
*	personally checked types by senior author Pavel Stoev

Acknowledgements

The work on the global millipede species catalogue was began in 1999 when Dr. Sergei Golovatch (Russian Academy of Sciences, Moscow) arranged for the copy of Brölemann's millipede species index card catalogue ('Fichier Iconographie') housed in the Muséum National d'Histoire Naturelle in Paris to be sent to the Field Museum in Chicago. Curator Jean-Paul Mauriès graciously permitted and facilitated the transfer of the copy to Chicago. Field Museum staff members and volunteers sorted and labeled the photocopies of the 'Iconography'; most importantly, volunteer Elizabeth Simmons completed the initial data entry of the taxonomic information on the cards. Pavel Stoev's examinations of the callipodid collections in the NHMW, ZMB, ZMUC, ZMAN and RMNH were supported by grants from the European Commission's (FP 6) Integrated Infrastructure Initiative programme SYNTHESYS (AT-TAF, DK-TAF, NL-TAF) and the Deutsche Forschungsgemeinschaft. The realization of this project was made possible through the financial support of Field Museum's Bass Scholarship to P. Stoev in 2006. The work on the global millipede species catalogue is supported by the two PEET grants (DEB 97-12438 and DEB 05-43766) from the National Science Foundation to P. Sierwald, William A. Shear (Hampden Sydney College) and Jason E. Bond (East Carolina University). The help of the following curators, who checked their collections for callipodid type material, is gratefully acknowledged: Drs. Shuqiang Li (IZCAS), Zoltán Korsós (HNHM), Peter Jäger (SMF), Lisa Levi (Museo Regionale Scienze Naturali, Torino, Italy), Göran Andersson (GNM), Torbjörn Kronstedt (NHRS), Peter Schwendinger (MHNG), Jean-Paul Mauriès (MNHN), Jean-Jacques Geoffroy (MNHN), and Ms Janet Beccaloni (BMNH). We are deeply obliged to Richard Hoffman (Virginia Museum of Natural History, Martinsville, USA) for the useful suggestions on the final draft. William Shear gave permission for reproducing fig. 2 originally published in *Zootaxa*, 365. Mr. Geert Brovad (ZMUC) took the photograph in fig. 1, and Mrs. Fani Bozarova (SOFM) assisted in the preparation of the map.

Catalogue

Order CALLIPODIDA Pocock, 1894

Callipodoidea Pocock, 1894, J. Linn. Soc. Lond., 24: 477.

Suborder SINOCALLIPODIDEA Shear, 2000

Sinocallipodidea Shear, 2000, Myriapodologica, 6 (11): 99.

One family and genus.

Family Sinocallipodidae Zhang, 1993

Sinocallipodidae Zhang, 1993, Proc. XI Int. Congr. Speleol. Beijing, 1993: 129.

Genus *Sinocallipus* Zhang, 1993

Sinocallipus Zhang, 1993, Proc. XI Int. Congr. Speleol. Beijing, 1993: 129. Type species: *Sinocallipus simplipodicus* Zhang, 1993, by original designation. Shear et al., 2003, Zootaxa, 365: 8.

Two species. Southern China, Vietnam, Thailand and Laos.

Sinocallipus simplipodicus Zhang, 1993

Sinocallipus simplipodicus Zhang, 1993, Proc. XI Int. Congr. Speleol. Beijing, 1993: 129, figs 1–16. Male HT (IZCAS) from Xiao Cave, Hekou Yaozu Autonomous County, Yunnan Province, China.

Sinocallipus simplicipodus [sic!]: Wang & Mauriès, 1996, Mém. Mus. Natl. Hist. Nat., 169: 86. Shear, 2000, Myriapodologica, 6 (11): 99.

Sinocallipus cf. *simplipodicus*: Enghoff et al., 2004, Arthr. Sel., 13 (1–2): 36.

Range: South China, North Vietnam?

Sinocallipus thai Stoev, Enghoff, Panha & Fuangarworn, 2007

Sinocallipus thai Stoev, Enghoff, Panha & Fuangarworn, 2007, Zootaxa, 1450: 64, figs 1–7. Male HT* (Institute of Biology, Chulalongkorn University, Bangkok) from Sri Wilai Temple, Saraburi Province, Thailand.

Sinocallipus simplipodicus: Shear et al., 2003, Zootaxa, 365: 9, figs 3–14.

Range: known only from Saraburi Province in Thailand.

Remark: Although being morphologically similar to *S. thai* the Laotian specimens putatively identified by Shear et al. (2003) as *S. simplipodicus* may refer to another, still undescribed species.

Suborder CALLIPODIDEA Pocock, 1894

Callipodoidea Pocock, 1894, J. Linn. Soc. Lond., 24: 477.

One family, two genera. SW Europe (incl. Sardinia and Corsica).

Family Callipodidae Bollman, 1893

Superfamily Callipodoidea Bollman, 1893, Bull. U.S. Natl. Mus., 46: 155, 158; family Callipodidae at p. 159.

Family Lysiopetalinae Newport, 1844, Proc. Linn. Soc. Lond., 1: 195. Synonymy proposed by Hoffman & Lohmander (1964). Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 213.

Lysiopetalidae Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 212.

Lysiopetalini Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 216.

Genus *Callipus* Risso, 1826

Callipus Risso, 1826, Hist. Nat. Princip. Prod. Europe Mérid., 5: 150. Type species: *Callipus rissonius* Leach, 1826, by monotypy. Strasser, 1974, Fragm. Entomol., 10 (3): 259, fig. 44.

Euopus Leach, 1830, Transact. Plymouth Inst.: 159 (paper not seen). Type species: *E. rissonianus* Leach, 1830, by monotypy. Synonymy proposed by Hoffman (1980).

Lysiopetalum Brandt, 1840, Rec. Mém. relat. ord. Ins. Myriapodes: 42. Type species: *Julus foetidissimus* Savi, 1819, by original designation. Synonymy proposed by Cook (1895).

Aulocosoma Attems, 1894, In: Schneider, O. S.B. Abh. Naturw. Ges. Isis, 1893: 57. Type species: *Aulocosoma compactile* Attems, 1894, by monotypy. Synonymy proposed by Stagl & Stoev (2005).

Silvestria Verhoeff, 1895, Zool. Anz., 18: 205, 207. Type species: *Julus foetidissimus* Savi, 1819, by subsequent designation by Cook, 1895. Synonymy proposed by Cook (1895).

Rabduchopetalum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 49 (spelled *Rhabduchopetalum* on p. 69). Type species: *Callipus hamuligerus* Verhoeff, 1900, by monotypy. Synonymy proposed by Hoffman (1980).

Four species, one of which with two subspecies. France, Italy, Monaco, Switzerland?

***Callipus corsicus* Verhoeff, 1943**

Callipus corsicus Verhoeff, 1943, Zool. Anz., 142: 218, fig. 6. ST (possibly ZSM, type status of specimen uncertain) from near Erbalunga and Grotte de Brando, Corsica, France. Mauriès, 1969, Ann. Spél., 24 (3): 506. Demange, 1981, Les mille-pattes, Myriapodes: 64, fig. 26.

Range: known only from Corsica Island.

***Callipus foetidissimus* (Savi, 1819)**

Julus foetidissimus Savi, 1819, Osservazioni sullo *Julus foetidissimus*, 1–12, figs 1–16. ST (whereabouts unknown) from Pisa, Italy.

Callipus longipes Risso, 1826, Hist. Nat. Princip. Prod. Europe Mérid.: 151. Type (whereabouts unknown) from Nice and Alpes Maritimes, France.

Callipus rissonius Leach, in Risso, 1826, Hist. Nat. Princip. Prod. Europe Mérid.: 151. Type (whereabouts unknown) from Nice and Alpes Maritimes, France. Synonymy proposed by Gervais (1847). Gervais, 1847, Hist. Nat. Ins. Apt., 4: 131. Cook, 1895, Am. Natur., 29: 1019. Brolemann, 1930, Bull. Soc. Hist. Natur. Toulouse, 60: 242.

Julus foetidus: Gervais, 1837, Ann. Sci. Nat., Zool., 7: 46.

Lysiopetalum foetidissimum: Brandt, 1840, Rec. Mém. relat. ord. Ins. Myriapodes: 42. Gervais, 1847, Hist. Nat. Ins. Apt., 4: 130. Berlese, 1883, Acari, Myriopoda et Scorpiones hucusque in Italia reperta, fasc. 2: pl. 7, figs 1–7. Daday, 1891, Termész. Füzt., 14 (1–2): 140. Daday, 1891, Termész. Füzt., 14 (3–4): 178. Silvestri, 1898, Ann. Mus. Civ. Stor. Nat. “Giacomo Doria” {2}, 18: 686.

Platops Hardwickei Newport, 1844, Ann. Mag. Nat. Hist., Ser. 1, 13: 267. Type (whereabouts unknown) from unspecified locality. Synonymy proposed by Pocock (1893).

Eurygyrus foetidissimus: C.L. Koch, 1847, System der Myriapoden: 115. C.L. Koch, 1867, Die Myriapoden, 2: 68, Taf. 94, fig. 191.

Callipus Rissonius: C.L. Koch, 1847, System der Myriapoden: 128.

Lysiopetalum Hardwickii: Gervais, 1847, Hist. Nat. Ins. Apt., 4: 134. Pocock, 1893, Ann. Mag. Nat. Hist., Ser. 6, 11: 248.

Aulocosoma compactile Attems, 1894, In: Schneider, O. S.B. Abh. Naturw. Ges. Isis, 1893: 57–58. HT: juvenile* (NHMW) from San Remo, Italy. Synonymy proposed by Stagl & Stoev (2005). Jeekel, 2000, Myriapod Memor., 2: 16.

Callipus foetidissimus var. *spezianus* Verhoeff, 1902, Arch. Naturgesch., 68 (1): 187. ST (ZMB): M, F from Spezia, N. Italy, 1 F from Messa, slides of female specimen from Carrara, Italy.

Callipus foetidissimus var. *ligurinus* Verhoeff, 1902, Arch. Naturgesch., 68 (1): 187. Material (ZMB and NHMW) from Nervi, Italy. Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 218. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 375, 382.

Callipus foetidissimus: Silvestri, 1894, Boll. Soc. Rom. Studi Zool., 3: 200. Pocock, 1895, Ann. Mus. Civ. Stor. Nat. “Giacomo Doria”, {2} 14: 513. Silvestri, 1895, Natur. Sic., 14, 223, fig. 2. Silvestri, 1898, Boll. Soc. Ent. Ital. Genova, 29 (4): 250. Verhoeff, 1902, Arch. Naturgesch., 68 (1): 188, 194. Brölemann, 1910, Arch. Zool. Exp. Gener. (5 Sér.), 5: 364. Brolemann, 1935, Faune de France, 29: 119, fig. 143. Demange, 1946, Bull. Mus. Natl. Hist. Nat., 2 sér., no. 18 (5): 396. Strasser, 1970, Mem. Mus. Civ. Stor. Nat. Verona, 18: 174, fig. 3. Nguyen Duy-Jacquemin, 1976, Bull. Mus. Natl. Hist. Nat., 3 sér., no. 408: 1115. Nguyen Duy-Jacquemin, 1979, Bull. Mus. Natl. Hist. Nat., 4 sér., no. 1: 79. Demange, 1981, Les mille-pattes, Myriapodes: 64, 66. Mauriès, 1984, Redia, 67: 409. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 9, 17, 19, fig. 5.

Callipus sorrentinus Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 217. ST: 1 exempl. (ZMUH) from a site near Sorrent, Italy. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 374, 383, Taf. VIII, figs 151–152. Verhoeff, 1936, Zool. Jahrb. {Syst.}, 68: 421. Verhoeff, 1939, Zool. Jahrb. {Syst.}, 72: 208. Verhoeff, 1941, Z. Morph. Ökol. Tiere, 38 (3–4): 157. Weidner, 1960, Mitt. Hamb. Zool. Mus. Inst., 58: 93. Mauriès, 1969, Ann. Spél., 24 (3): 506. Strasser, 1974, Fragm. Entomol., 10 (3): 253. Demange, 1981, Les mille-pattes, Myriapodes: 64, fig. 25.

Callipus sorrentinus var. *olevanensis* Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 217. Material: 1 F (ZMB), 1 M* (NHMW) from “Albannergebirge” (Marino) und “Sabinergebirge” (Olevano), Italy. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 245, 374, 383, Taf. VIII, fig. 153. Manfredi, 1953, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 92: 97. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 348.

Callipus spezianus: Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 218. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 245, 375, 383, textfig. 33, Taf. VIII, figs 148, 155.

Callipus longobardius Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 218. ST: 1 F, 3 juv. (ZMB), 1 M*, 2 FF*, 1 juv.* (NHMW), 3 exempl. (ZMUH), 2 FF* Cat. No. 420 (RMNH) from “Comersee und Riviera”, Italy. Synonymy proposed by Brolemann (1930). Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 243, 375, 381, Taf. 8, figs 147, 154. Verhoeff, 1921, Arch. Naturgesch., 87 (2): 31, 33. Weidner, 1960, Mitt. Hamb. Zool. Mus. Inst., 58: 93. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 340.

Callipus longobardius var. *annulatus* Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 218. Material from unspecified

- locality in Italy. Verhoeff, 1910, *Nova Acta, Acad. Caes. Leopold.-Carol.*, 92 (2): 375, 382.
- Callipus sicularum* Verhoeff, 1909, *S.B. Ges. Natf. Freunde Berlin*, 4: 218. Female HT (possibly at ZSM, type status of specimen uncertain) from Castrogiovani, Italy. Synonymy proposed by Strasser & Minelli (1984). Verhoeff, 1910, *Nova Acta, Acad. Caes. Leopold.-Carol.*, 92 (2): 357.
- Callipus longobardius esterelanus* Verhoeff, 1921, *Arch. Naturgesch.*, 87 (2): 35, 38. ST (1 F ZMB; other ST possibly ZSM, type status of specimens uncertain) from Le Trayas, Esterel Mts, France.
- Callipus longobardius litoralis* Verhoeff, 1921, *Arch. Naturgesch.*, 87 (2): 38, figs 28–29. ST (possibly ZSM, type status of specimen uncertain) from St. Raphael, Italy. Synonymy proposed by Strasser & Minelli (1984). Brolemann, 1930, *Bull. Soc. Hist. Natur. Toulouse*, 60: 249. Manfredi, 1953, *Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano*, 92: 90.
- Callipus longobardius* var. *clavatus* Verhoeff, 1921, *Arch. Naturgesch.*, 87 (2): 33, 37, figs 30–31. Material (SMF) from near Grimaldi, St. Jean, San Remo. Brolemann, 1930, *Bull. Soc. Hist. Natur. Toulouse*, 60: 249.
- Callipus rissonius gallicus* Brolemann, 1930, *Bull. Soc. Hist. Natur. Toulouse*, 60: 249, fig. 3. ST (MNHN, see below) from Gard, Basses-Alpes and Melun, France.
- Callipus rissonius gallicus* var. *gallica* Brolemann, 1930, *Bull. Soc. Hist. Natur. Toulouse*, 60: 250. Material (MNHN) from Seine-et-Marne, France.
- Callipus rissonius gallicus* var. *alpestris* Brolemann, 1930, *Bull. Soc. Hist. Natur. Toulouse*, 60: 250, figs 1–2, 6–9. Material (MNHN) from Basses-Alpes (Colmars-les-Alpes), France.
- Callipus rissonius gallicus* var. *Chobauti* Brolemann, 1930, *Bull. Soc. Hist. Natur. Toulouse*, 60: 250, figs 4–5. Material (MNHN) from Gard (Nîmes), France.
- Callipus longobardius* var. *castanearum* Verhoeff, 1930, *Zool. Jahrb. {Syst.}*, 59: 397, figs 17, 21. Material (ZMB, RMNH, BMNH) from S. Dalmazzo di Tenda, near Tenda, near Ormea, near Cuneo, Italy. Moritz & Fischer, 1974, *Mitt. Zool. Mus. Berlin*, 50 (2): 341.
- Callipus longobardius* var. *ormeanus* Verhoeff, 1930, *Zool. Jahrb. {Syst.}*, 59: 398, figs 18, 20. Material from a site near Ormea, Italy.
- Callipus longobardius* var. *miocaeus* Verhoeff, 1930, *Zool. Jahrb. {Syst.}*, 59: 398, figs 16, 19. Material from Burgberge near Ceva, Italy.
- Callipus sorrentinus boettgeri* Verhoeff, 1930, *Mitt. Zool. Mus. Berlin*, 16: 567, fig. 1. Male HT (ZMB) from the Botanical Gardens in Portici, Italy. Verhoeff, 1941, *Z. Morph. Ökol. Tiere*, 38 (3–4): 158, figs? (paper not seen). Manfredi, 1953, *Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano*, 92: 81, 96. Moritz & Fischer, 1974, *Mitt. Zool. Mus. Berlin*, 50 (2): 330.
- Callipus sorrentinus aprutianus* Verhoeff, 1931, *Zool. Jahrb. {Syst.}*, 60: 318. M and 3 FF ST (possibly ZSM, type status of specimens uncertain) from sites near Aquila in Abruzzia and village of Piediluco, Italy. Synonymy proposed by Strasser & Minelli (1984). Verhoeff, 1936, *Zool. Jahrb. {Syst.}*, 68: 420, fig. 96. Verhoeff, 1941, *Z. Morph. Ökol. Tiere*, 38 (3–4): 157. Verhoeff, 1952, *Bonn. Zool. Beitr.*, 3 (1–2): 144, figs 30–31. Manfredi, 1953, *Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano*, 92: 97. Strasser, 1958, *Boll. Soc. Adr. Sci. Nat.*, 49, 147.
- Callipus foetidissimus gallicus*: Brolemann, 1935, *Faune de France*, 29: 125, figs 144–147. Demange, 1946, *Bull. Mus. Natl. Hist. Nat.*, 2 sér., no. 18 (5): 395, fig. 3. Schubart, 1960, *Rev. Suisse Zool.*, 67: 579. Demange, 1981, *Les mille-pattes, Myriapodes*: 66, fig. 24.
- Callipus rissonius gallicus* var. *alpestris*: Brolemann, 1935, *Faune de France*, 29: 125, figs 149–156.
- Callipus foetidissimus gallicus* var. *Chobauti*: Brolemann, 1935, *Faune de France*, 29: 125, figs 157–158.
- Callipus faucium* Verhoeff, 1936, *Zool. Jahrb. {Syst.}*, 68: 422, fig. 95. Male HT (possibly ZSM, type status of specimen uncertain) from Pegazzano, Spezia, Italy.
- Callipus taranus* Verhoeff, 1936, *Zool. Jahrb. {Syst.}*, 68: 423, fig. 94. Male HT (possibly ZSM, type status of specimen uncertain) from Borgotaro, N Italy. Synonymy proposed by Strasser & Minelli (1984). Manfredi, 1953, *Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano*, 92: 90.
- Callipus sorrentinus dentiger* Verhoeff, 1941, *Z. Morph. Ökol. Tiere*, 38 (3–4): 155, figs? (paper not seen). ST: ad. & subad. FF*, fragment of specimen (M?)* (ZMAN) from “Ischia, Nordhang des Mte. Epomeo”, Italy. Manfredi, 1953, *Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano*, 92: 83, 96. Manfredi, 1957, *Annu. Inst. Mus. Zool. Univ. Napoli*, 9 (2): 2.
- Callipus foetidissimus gallicus* var. *denticulatus* Demange, 1946, *Bull. Mus. Natl. Hist. Nat.*, 2 sér., no. 18 (5): 394, figs 1–2. 2 MM ST (MNHN) from the catacombs of the Paris Museum, France.
- Callipus sorrentinus epomeanus* Verhoeff, 1952, *Bonn. Zool. Beitr.*, 3 (1–2): 145, figs 32–34. Male HT (1 identified specimen in ZSM) from Epomea Mts, Italy. Manfredi, 1953, *Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano*, 92: 97.
- Callipus longobardius clavatus* (subspecific rank, sic!): Manfredi, 1953, *Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano*, 92: 90.
- Callipus longobardius ligurinus* (subspecific rank, sic!): Manfredi, 1953, *Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano*, 92: 90.

Callipus sorrentinus sardus Manfredi, 1953, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 92: 98, figs 16–17 (see also pp. 96–97). ST: 1M, 4FF (MSNM) from Su Colori Cave, Laerru, Sardinia, Italy. Synonymy proposed by Strasser & Minelli (1984). Manfredi, 1976, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 117 (3–4): 224.

Callipus sorrentinus remyi Manfredi, 1953, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 92: 97 [nomen nudum]. Manfredi, 1956, Comm. 1er Congr. Int. Spél., Paris, 3: 291, fig. 1 (paper not seen). Male HT (MSNM) from “Grotte de Sabara”, Corsica, France. Mauriès, 1969 Ann. Spél., 24 (3): 506. Manfredi, 1976, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 117 (3–4): 224.

Callipus (sorrentinus?) [sic!]: Strasser, 1970, Mem. Mus. Civ. Stor. Nat. Verona, 17: 172.

Callipus foetidissimus var. *calaber* Strasser, 1971, Mem. Mus. Civ. Stor. Nat. Verona, 19: 9, figs 9–10. Material: 4 MM, 1 juv. from Tiriolo Caves near Catanzaro, Calabria, Italy.

Callipus foetidissimus var. *ligurinus*: Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 335.

Callipus foetidissimus sorrentinus: Strasser, 1974, Fragm. Entomol., 10 (3): 253, figs 48–49. Strasser, 1982, Boll. Mus. Civ. Stor. Nat. Verona, 8: 229. Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204. Minelli, 1985, Mem. Mus. Civ. Stor. Nat. Verona, II Serie, Biologica, 4: 13.

Callipus foetidissimus foetidissimus: Strasser, 1974, Fragm. Entomol., 10 (3): 254. Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204. Minelli, 1985, Mem. Mus. Civ. Stor. Nat. Verona, II Serie, Biologica, 4: 12.

Range: Corsica, French mainland, Italian mainland, Monaco, Sardinia, Sicily (doubtful), Switzerland?

Remarks: According to Strasser (1974b), Strasser & Minelli (1984) and Minelli (1985) there are only two valid subspecies of *C. foetidissimus* – the nominal one occurring in the northern part of Italy and France and *sorrentinus* restricted to southern Italian provinces Umbria, Lazio, Campania, Calabria and Sardinia. However, none of the above mentioned authors formalized the synonymy of *Callipus faucium*, *C. longbobardius esterelanus*, *C. rissonius gallicus*, *C. sorrentinus dentiger*, *C. sorrentinus boettgeri*, *C. sorrentinus epomeanus* and *C. sorrentinus remyi*. Thus, their inclusion in the list of synonyms is provisional. See Minelli (1985) for complete bibliography of Italian cave records.

***Callipus hamuligerus* Verhoeff, 1900**

Callipus (Rabduchopetalum) hamuligerus Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 65, figs 19–26. Male HT (ZMB) from Sardinia. Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 217. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 374. Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1512, fig. 911. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 338. Strasser, 1974, Fragm. Entomol., 10 (3): 257, 37–42. Minelli, 1985, Mem. Mus. Civ. Stor. Nat. Verona, 4: 14.

Callipus hamuliger: Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204.

Range: known only from Sardinia, Italy.

***Callipus piroddai* Strasser, 1974**

Callipus piroddai Strasser, 1974, Fragm. Entomol., 10 (3): 254, figs 32–36. Male HT (MZUL?) from S. Giovanni Cave, M. Acqua, Domusnovas, Sardinia, Italy. Legs and gonopods of single male (preserved dry) in MHNG. Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204. Minelli, 1985, Mem. Mus. Civ. Stor. Nat. Verona, 4: 14.

Range: known only from Sardinia, Italy.

Genus *Sardopus* Strasser, 1974

Sardopus Strasser, 1974, Fragm. Entomol., 10 (3): 259. Type species: *S. malleiger* Strasser, 1974, by original designation.

One species, Italy.

***Sardopus malleiger* Strasser, 1974**

Sardopus malleiger Strasser, 1974, Fragm. Entomol., 10 (3): 261, figs 44–47. Male HT (MZUL?), 1 PT (MHNG), from “diaciasi a N di Punta Corongui”, Sardinia, Italy. Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204. Minelli, 1985, Mem. Mus. Civ. Stor. Nat. Verona, 4: 14.

Range: known only from Sardinia, Italy.

Suborder SCHIZOPETALIDEA Hoffman, 1973

Schizopetalidea Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 83.

Five families, Northern Mediterranean realm, central and southeastern Asia, North America.

Family Abacionidae Shelley, 1979

Abacioninae Shelley, 1979, Proc. Biol. Soc. Wash., 92 (3): 535. Hoffman, 1980, Classification of the Diplopoda: 122.

Two tribes – Abacionini and Delophonini, Eastern USA.

Tribe Abacionini Shelley, 1979

Abacionini Shelley, 1979, Proc. Biol. Soc. Wash., 92 (3): 535.

Two genera – *Abacion* and *Tetracion*, eastern United States.

Genus *Abacion* Rafinesque, 1820

Abacion Rafinesque, 1820, Annals of Nature, 1: 9. Type species: *A. tessellatum* Rafinesque, 1820, by monotypy. Hoffman & Crabill, 1953, Florida Entomol., 36: 81. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 108. Shelley, 1984, Can. J. Zool., 62: 981 (revision).

Spirostrephon Brandt, 1840, Rec. Mém. relat. ord. Ins. Myriapodes: 90. Type species: *Julus lactarius* Say, 1821, by monotypy. Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 105. Synonymy proposed by Hoffman & Crabill (1953).

Reasia Gray, 1843, in: Jones, T. (R. Todd ed.): Cycl. Anat. Phys., 3: 546. Type species: *R. spinosa* Sager, 1856, by monotypy. Synonymy proposed by Wood (1865).

Platops Newport, 1844, Ann. Mag. Nat. Hist., Ser. 1, 13: 267. Type species: *P. rugulosa* Newport, 1844, by subsequent designation by Cook, 1895. Synonymized with *Spirostrephon* by Cook (1895).

Platyops Agassiz, 1846, Nomenclatoris zoologici Index universalis: 294, 296. Type species: *Platops rugulosa* Newport, 1844, by direct substitution.

Five species, United States east of the 100th Meridian; northern Mexico.

Abacion lactarium (Say, 1821)

Julus lactarius Say, 1821, J. Acad. Nat. Sci. Philadelphia, 2: 104. Type material, from an unspecified locality, not known to be extant. Chamberlin & Hoffman (1958: 109) suggested Philadelphia, Pennsylvania, as restricted type locality, but without designating a neotype.

Cambala lactarius: Gray, 1832, In: Griffith and Pidgeon, The class Insecta arranged by Baron Cuvier, pl. 135, fig. 2. Gervais, 1837, Ann. Sci. Nat., Zool., 7: 48. Gervais, 1847, Hist. Nat. Ins. Apt., 4: 134.

Spirostrephon lactarius: Brandt, 1840, Rec. Mém. relat. ord. Ins. Myriapodes: 90. Wood, 1865, Trans. Am. Phil. Soc., 13: 192. Ryder, 1881, Proc. U.S. Natl. Mus. Wash., 3: 526. Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 108, figs 16, 1-m. Chamberlin, 1943, Proc. Biol. Soc. Wash., 56: 145. Causey, 1953, Am. Midl. Nat., 50: 155.

Cambala lactaria: Newport, 1844, Ann. Mag. Nat. Hist., Ser. 1, 13: 266.

Platops lineata Newport, 1844, Ann. Mag. Nat. Hist., Ser. 1, 13: 267. HT (BMNH) from North America. Synonymy proposed by Pocock (1893).

Lysiopetalum lineatum: Gervais, 1847, Hist. Nat. Ins. Apt., 4: 133.

Lysiopetalum lactarium: McNeill, 1888, Bull. Brookville Soc. Nat. Hist., 3: 9. Pocock, 1893, Ann. Mag. Nat. Hist., Ser. 6, 11: 248. Chamberlin, 1931, Entomol. News, 42 (4): 98.

Callipus lactarius: Williams & Hefner, 1928, Ohio State Univ. Bull., 33 (7): 118–119, fig. 15.

Spirostrephon lactarium: Loomis, 1944, Psyche, 51 (3–4): 168 (in part).

Abacion lactarium: Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 109. Shelley, 1984, Can. J. Zool., 62: 983, figs 4–6. Hoffman, 1999, Checklist Millip. North & Middle Am.: 197.

Range: New Jersey to central Florida, west and north to Ohio and Indiana, with an apparent hiatus in the range between Virginia and northern Florida. Although the species is statewide in Florida, there are no Coastal Plain records for the northern population (cf. Hoffman 1999).

Abacion magnum (Loomis, 1943)

Spirostrephon magnum Loomis, 1943, Bull. Mus. Comp. Zoöl. Harvard Coll., 92 (7): 388, figs 8 a–b. Male HT (MCZ) from Monte Sano State Park, east of Huntsville, Madison County, Alabama, USA.

Spirostrephon lactarium: Chamberlin, 1946, Entomol. News, 57 (6): 149. Chamberlin, 1947, Proc. Acad. Nat. Sci. Phila., 99: 21. Chamberlin, 1951, Great Basin Natur., 11 (1–2): 30.

Spirostrephon highlandensis Hoffman, 1950, J. Elisha Mitchell Sci. Soc., 66: 17, figs 5–6. Male HT (USNM) from Highlands, Macon County, North Carolina. Synonymized by Shelley (1984).

Abacion magnum: Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 109. Shelley, 1984, Can. J. Zool., 62: 984, figs 7–9. Hoffman, 1999, Checklist Millip. North & Middle Am.: 197.

Abacion magnum highlandense: Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 109.

Range: Appalachian mountain system and adjacent lowlands: central Alabama to central western New York; Piedmont of North and South Carolina, and Coastal Plain of the latter (cf. Hoffman 1999).

Abacion tessellatum Rafinesque, 1820

Abacion tessellatum Rafinesque, 1820, Annals of Nature, 1: 9. Type material not extant, from *Platops rugulosa* Newport, 1844, Ann. Mag. Nat. Hist., Ser. 1, 13: 267. Male HT (BMNH) from an unspecified locality. Synonymized with *tessellatum* by Chamberlin & Hoffman (1958). Hoffman & Crabill, 1953, Florida Entomol., 36 (2): 81. Chamberlin &

Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 110. Shelley, 1984, Can. J. Zool., 62: 982, figs 1–3. Hoffman, 1999, Checklist Millip. North & Middle Am.: 197. McAllister & Shelley, 2003, Proc. Oklahoma Acad. Sci., 83: 84.

Lysiopetalum rugulosum: Gervais, 1847, Hist. Nat. Ins. Apt., 4: 132. Pocock, 1893, Ann. Mag. Nat. Hist., Ser. 6, 11: 248.

Reasia spinosa Sager, 1856, Proc. Acad. Nat. Sci. Phila., 8: 109. Type material not known to exist, from an unspecified locality, vicinity of Detroit, Michigan suggested as type locality by Chamberlin & Hoffman, 1958. Synonymy proposed by Wood (1865).

Lysiopetalum lactarium: Packard, 1883, Proc. Am. Phil. Soc., 21: 183. Packard, 1883, Am. Natur., 17: 555.

Lysiopetalum eudasym McNeill, 1887, Proc. U.S. Natl. Mus. Wash., 10: 330. HT (USNM) from Bloomington, Monroe County, Indiana. Synonymized with *lactarium* by Williams & Hefner (1928); with *tesselatum* by Chamberlin & Hoffman (1958).

Lysiopetalum [sic!] *eudasum* [sic!] McNeill, 1887, Proc. U.S. Natl. Mus. Wash., 10: 324.

Lysiopetalum endasum: McNeill, 1888, Bull. Brookville Soc. Nat. Hist., 3: 9.

Spirostrephon creolum Chamberlin, 1942, Bull. Univ. Utah, Biol. Ser., 6, 32 (8): 9, figs 24–25. Male HT (USNM) from Covington, St. Tammany Parish, Louisiana, USA. Synonymized by Shelley (1984). Chamberlin, 1947, Proc. Acad. Nat. Sci. Phila., 99, 21. Causey, 1953, Am. Midl. Nat., 50: 155.

Abacion tesselatum creolum: Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 110. Loomis, 1959, J. Wash. Acad. Sci., 49 (5): 161. Loomis, 1969, Florida Entomol., 52 (4): 245, fig. 1.

Range: Southcentral United States, western Pennsylvania to Michigan, Wisconsin, Kansas, southward to the Florida panhandle and Louisiana, also central Appalachians eastward to Virginia (cf. Hoffman 1999).

***Abacion texensis* (Loomis, 1937)**

Spirostrephon texensis Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 109, fig. 16n. Male HT (USNM) from Pierce, Wharton County, Texas. Loomis, 1944, Psyche, 51 (3–4): 168.

Spirostrephon jonesi Chamberlin, 1942, Can. Entomol., 74: 17, fig. 1. Male HT (USNM) from Ames, Story County, Iowa. Synonymized by Chamberlin & Hoffman (1958).

Tynomma messicanum Chamberlin, 1943, Bull. Univ. Utah, Biol. Ser., 34 (7): 33. Female HT (USNM) from Chipinque [Mesa], Monterey, Nuevo León, Mexico. Synonymized by Loomis (1968).

Spirostrephon texensis: Causey, 1953, Am. Midl. Nat., 50: 155.

Abacion texense: Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 110. Loomis, 1959, J. Wash. Acad. Sci., 49 (5): 161. Loomis, 1966, J. Kansas Entomol. Soc., 39 (3): 520, fig. 6. Loomis, 1968, J. Kansas Entomol. Soc., 41 (3): 388. Shelley, 1984, Can. J. Zool., 62: 986, figs 10–11.

Abacion texensis: Hoffman, 1999, Checklist Millip. North & Middle Am.: 198. Bueno-Villegas et al., 2004, Biodiv., Taxonom. Biogeogr. Artróp. México, 4: 589.

Range: Great Plains from Minnesota and eastern Nebraska south to northern Nuevo León, eastward as far as southern Mississippi, doubtless also in Alabama and Tennessee (cf. Hoffman 1999).

***Abacion wilhelminae* Shelley, McAllister & Hollis, 2003**

Abacion wilhelminae Shelley, McAllister & Hollis, 2003, Zootaxa, 170: 3, figs 1–4. Male HT (NCSM) from Pioneer Cemetery Historical Site along Arkansas highway 88 on Rich Mountain, ca. 1.5 mi (2.4 km) W Queen Wilhelmina State Park, Polk County, Arkansas.

Range: Rich Mountain, Polk County, Arkansas, USA.

Genus *Tetracion* Hoffman, 1956

Tetracion Hoffman, 1956, Geol. Survey Alabama, Mus. Pap., 35: 5. Type species: *T. jonesi*, by original designation. Three species, caves in the states of Tennessee, Alabama, Georgia, USA.

***Tetracion antraeum* Hoffman, 1956**

Tetracion jonesi antraeum Hoffman, 1956, Geol. Survey Alabama, Mus. Pap., 35: 8, figs 6–8. Male HT (UABD) from Barclay Cave, Madison County, Alabama, USA. Causey, 1959, J. Tenn. Acad. Sci., 34 (4): 236.

Tetracion antraeum: Shelley, 1996, Ent. Scand., 27 (1): 63. Hoffman, 1999, Checklist Millip. North & Middle Am.: 198.

Range: caves in Jackson and Madison counties, Alabama, USA (cf. Hoffman 1999).

***Tetracion jonesi* Hoffman, 1956**

Tetracion jonesi jonesi Hoffman, 1956, Geol. Survey Alabama, Mus. Pap., 35: 6, figs 1–5. Male HT (UABD) from Bat Cave, near Grant, Marshall County, Alabama, USA.

Tetracion jonesi: Shelley, 1996, Ent. Scand., 27 (1): 63. Hoffman, 1999, Checklist Millip. North & Middle Am.: 199.

Range: caves in Jackson and Marshall counties, Alabama, USA (cf. Hoffman 1999).

***Tetracion tennesseensis* Causey, 1959**

Tetracion tennesseensis Causey, 1959, J. Tenn. Acad. Sci., 34 (4): 236, fig. 6. Male HT (AMNH) from Cumberland Caverns, Warren County, Tennessee, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 199.

Range: caves in Warren and Grundy countries, Tennessee, USA (cf. Hoffman 1999).

Tribe Delophonini Shelley, 1979

Tribe Delophonini Shelley, 1979, Proc. Biol. Soc. Wash., 92 (3): 535.

One genus, southeastern United States.

Genus *Delophon* Chamberlin, 1943

Delophon Chamberlin, 1943, Bull. Univ. Utah, Biol. Ser., 34 (6): 13. Type species: *D. georgianum* Chamberlin, 1943, by original designation. Shelley, 1979, Proc. Biol. Soc. Wash., 92 (3): 535 (revision).

Four species, southeastern USA.

***Delophon georgianum* Chamberlin, 1943**

Delophon georgianum Chamberlin, 1943, Bull. Univ. Utah, Biol. Ser., 34 (6): 14, figs 28–30. Male HT (USNM) from Gainesville, Hall County, Georgia, USA. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 112. Shelley, 1979, Proc. Biol. Soc. Wash., 92 (3): 537, figs 1–3. Hoffman, 1999, Checklist Millip. North & Middle Am.: 199.

Delophon carolinum Hoffman, 1950, J. Elisha Mitchell Sci. Soc., 66: 18, plate 5, fig. 4. Male HT (USNM) from Highlands, Macon County, North Carolina. Synonymized by Shelley (1979). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 112.

Range: Southern Blue Ridge in northeastern Georgia, western North Carolina, and eastern Tennessee, an isolated population in the western Piedmont in North Carolina (cf. Hoffman 1999).

***Delophon holti* Shelley, 1979**

Delophon holti Shelley, 1979, Proc. Biol. Soc. Wash., 92 (3): 544, figs 7–9. Male HT (VMNH) from a sinkhole about one mile southeast of Russellville, Hamblin County, Tennessee, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 199.

Range: known only from the type collection, but almost surely occurs in similar habitats in eastern Tennessee and adjacent southwest Virginia (cf. Hoffman 1999).

***Delophon mississippiianum* Shelley, 1983**

Delophon mississippiianum Shelley, 1983, Entomol. News, 94: 11, figs 1–3. Male HT (USNM) from deciduous woods one mile southeast of Ecu, Pontotoc County, Mississippi, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 200.

Range: known only from the type locality.

***Delophon serrulatum* Causey, 1954**

Delophon serrulatum Causey, 1954, Tulane Stud. Zool. Bot., 2 (4): 64, figs 1–3. Male HT (AMNH) from vicinity of Loxley, Baldwin County, Alabama, USA. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 112. Shelley, 1979, Proc. Biol. Soc. Wash., 92 (3): 543, figs 4–6. Hoffman, 1999, Checklist Millip. North & Middle Am.: 200.

Range: Northcentral Tennessee (Fentress County) and northwest Georgia south through Alabama to vicinity of Mobile Bay; probably occurs also in southern Kentucky, northeast Mississippi, and the Florida panhandle (cf. Hoffman 1999).

Family Caspiopetalidae Lohmander, 1931

Caspiopetalidae Lohmander, 1931, Arkiv Zool., 22B (1): 5.

One genus, Central and East Asia.

Genus *Bollmania* Silvestri, 1896

Bollmania Silvestri, 1896, Ann. Mus. Civ. Stor. Nat. "Giacomo Doria", 16 (36): 150. Type species: *Callipus orientalis* Silvestri, 1895, by original designation.

Trypostrephon Cook, 1896, Brandtia, 2: 5. Type species: *Callipus orientalis* Silvestri, 1895, by original designation. A junior objective synonym (cf. Jeekel, 1955).

Caspiopetalum Lohmander, 1931, Arkiv Zool., 22B (1): 1. Type species: *C. schestoperovi*, by original designation. Synonymy proposed by Lohmander (1933).

Apatidea Attems, 1936, Mem. Ind. Mus., 11 (4): 249. Type species: *A. kohalana* Attems, 1936, by original designation. Preoccupied by *Apatidea* McLachlan, 1874 (Trichoptera) Synonymy proposed by Jeekel (1955).

Iranopetalum Attems, 1951, S.B. Kaiser. Akad. Wiss. Wien, 160, I: 416. Type species: *I. nematogonum*, by original designation. Synonymy proposed by Hoffman and Lohmander (1964: p. 118).

Eight species, from Iran in the East to southern China in the West.

***Bollmania beroni* Stoev & Enghoff, 2005**

Bollmania beroni Stoev & Enghoff, 2005, J. Nat. Hist., 39: 1877, figs 1–11, 19. Male HT* (SOFM) from China, Yunnan, Jianshui County, Yan Dong Cave.

Range: known only from the type locality.

***Bollmania gracilis* Golovatch, 1983**

Bollmania gracilis Golovatch, 1983, Ann. Naturhist. Mus. Wien, 85/B: 158, figs 1–2. Male HT* (NHMW) from river valley 50 km W of Shiraz, Iran. Stoev & Enghoff, 2005, J. Nat. Hist., 39: 1886 (key). Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 13. Enghoff & Moravvej, 2005, Zool. Middle East, 35: 63.

Range: known only from the type locality.

***Bollmania kohalana* (Attems, 1936)**

Apatidea kohalana Attems, 1936, Mem. Ind. Mus., 11 (4): 249, figs 54–56. ST*: 1 specimen broken into pieces; two slides of female 2nd leg-pair, antenna, midbody legs and male gonopods (NHMW) from Kohala, Punjab, India.

Bollmania kohalana: Jeekel, 1955, Entomol. Ber., 15: 417. Golovatch, 1983, Ann. Naturhist. Mus. Wien, 85/B: 160 (key). Stoev & Enghoff, 2005, J. Nat. Hist., 39: 1886 (key). Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 15.

Range: known only from Kohala, Pakistan.

***Bollmania nematogona* (Attems, 1951)**

Iranopetalum nematogonum Attems, 1951, S.B. Kaiser. Akad. Wiss. Wien, 160, I: 417, 34–38. ST*: 51 specimens of both sexes; four slides of male gonopods and leg-pairs 1–9 (NHMW) from Kuh-räng Mts, 2500 m (W of Isfahan), Iran.

Bollmania nematogona: Golovatch, 1983, Ann. Naturhist. Mus. Wien, 85/B: 160 (key). Stoev & Enghoff, 2005, J. Nat. Hist., 39: 1886 (key). Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 19, fig. 2. Enghoff & Moravvej, 2005, Zool. Middle East, 35: 63.

Range: known only from the type locality.

***Bollmania nodifrons* Lohmander, 1933**

Caspiopetalum nodifrons Lohmander, 1931, Arkiv Zool., 22B (1): 5, fig. 2 [nomen nudum].

Bollmania nodifrons Lohmander, 1933, Arkiv Zool., 25A (6): 49, figs 45–47. Male HT (3 slides, GNM) from “Buchara, Baba-tau”, Tajikistan. Golovatch, 1983, Ann. Naturhist. Mus. Wien, 85/B: 160 (key). Stoev & Enghoff, 2005, J. Nat. Hist., 39: 1881, 1886 (key), fig. 14.

Range: known from Babatag Mt. and Hodzha-Moston Ridge, SW Tajikistan.

***Bollmania oblonga* Golovatch, 1979**

Bollmania oblonga Golovatch, 1979, Zool. Zh., 58 (7): 990, figs 13–15. Male HT (ZIN) from near Kondary Gorge, Varzobskiy District, Tajikistan. Golovatch, 1983, Ann. Naturhist. Mus. Wien, 85/B: 160 (key). Stoev & Enghoff, 2005, J. Nat. Hist., 39: 1883, 1886 (key), fig. 15.

Range: except the type locality situated N of Dushanbe, this species has been reported also from Isambai in Gazi-Malek Mt., Tajikistan.

***Bollmania orientalis* (Silvestri, 1895)**

Callipus orientalis Silvestri, 1895, Zool. Anz., 18 (474): 180. ST (whereabouts unknown) from Ashhabat, Turkmenistan.

Trypostrephon orientalis: Cook, 1896, Brandtia, 2: 5.

Bollmania orientalis: Silvestri, 1896, Ann. Mus. Civ. Stor. Nat. Genova, 16 (36): 150. Lohmander, 1933, Arkiv Zool., 25 (6): 33, figs 18–21, 23–27, 31–41. Golovatch, 1983, Ann. Naturhist. Mus. Wien, 85/B: 160 (key). Stoev & Enghoff, 2005, J. Nat. Hist., 39: 1883, 1886 (key).

Caspiopetalum schestoperovi Lohmander, 1931, Arkiv Zool., 22 (1): 5, fig. 1. Types: (12 slides, GNM) from “südwestlichen Turkestan”. Synonymy proposed by Lohmander (1933).

Bollmania orientalis ajderensis Lohmander, 1933, Arkiv Zool., 25A (6): 39, fig. 30. Male HT (NHRS?! GNM?) from Kopet-dag, Aj-dere, Turkmenistan.

Range: known only from Kopetdagh Mts., Turkmenistan.

Remark: The taxonomic status of the subspecies *ajderensis* is uncertain, most likely it is synonym of the nominal subspecies.

***Bollmania serrata* Lohmander, 1933**

Caspiopetalum serratum Lohmander, 1931, Arkiv Zool., 22B (1): 5, fig. 3. [nomen nudum].

Bollmania serrata Lohmander, 1933, Arkiv Zool., 25A (6): 47, figs 42–44. ST: 2 MM (2 slides, GNM) from village of Schach-dary, Buchara, Tajikistan. Golovatch, 1983, Ann. Naturhist. Mus. Wien, 85/B: 160 (key). Stoev & Enghoff, 2005, J. Nat. Hist., 39: 1886 (key).

Range: known only from the type locality.

Family Dorypetalidae Verhoeff, 1900

Dorypetalini Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 50.

Dorypetalidae: Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 210. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 395.

Two subfamilies – Dorypetalinae and Cyphocallipodinae, Balkan and Iberian peninsulas, Aegean coast of Turkey, southern Romania, introduced in Hungary.

Subfamily Dorypetalinae Verhoeff, 1900

Dorypetalini Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 50.

One genus.

Genus *Dorypetalum* Verhoeff, 1900

Dorypetalum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 50. Type species: *Lysiopetalum degenerans* Latzel, 1884, by monotypy. Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 118. Stoev & Enghoff, 2006, Zootaxa, 1254: 29–43 (revision).

Seven species, Balkan Peninsula and neighbouring parts of Romania and Turkey. One species introduced in Budapest.

***Dorypetalum bosniense* (Verhoeff, 1897)**

Lysiopetalum degenerans bosniense Verhoeff, 1897, Arch. Naturgesch., 63 (1): 152, fig. 8. Male HT* (ZMB) from Bosna-Quelle (Vrelo Bosne), Bosnia and Herzegovina. Verhoeff, 1899, Wiss. Mitt. Bosnien Hercegovina, 6: 761. Attems, 1929, Zool. Jahrb. {Syst.}, 56: 323. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 330.

Dorypetalum degenerans bosniense: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 32. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289.

Dorypetalum bosniense: Strasser, 1974, Rev. Suisse Zool., 81 (1): 259 (key). Stoev & Enghoff, 2006, Zootaxa, 1254: 34, figs 15–16 (revision).

Range: Bosnia and Herzegovina.

***Dorypetalum bosporanum* Hoffman & Lohmander, 1964**

Dorypetalum bosporanum Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 121, figs 6 & 7. Male HT (ZMUH) from Bebek near Istanbul, Turkey. Strasser, 1974, Rev. Suisse Zool., 81 (1): 260 (key). Rack, 1974, Mitt. Hamb. Zool. Mus. Inst., 70: 112. Strasser, 1975, Rev. Suisse Zool., 82 (3): 590, figs 9–10. Stoev & Enghoff, 2006, Zootaxa, 1254: 36, figs 17–22 (revision). Enghoff, 2006, Steenstrupia, 29 (2): 186.

Range: European Turkey.

***Dorypetalum bulgaricum* Strasser, 1966**

Dorypetalum bulgaricum Strasser, 1966, Ann. Zool., 23 (12): 349, figs 21–22. Male HT (whereabouts unknown) from Ivaylovgrad, Bulgaria. Strasser, 1969, Ann. Zool., 27 (7): 146. Strasser, 1973, Ann. Zool., 30 (15): 429. Strasser, 1974, Rev. Suisse Zool., 81 (1): 260 (key). Stoev, 2004, Biodiversity of Bulgaria, 2: 215. Stoev & Enghoff, 2006, Zootaxa, 1254: 36, figs 23–24 (revision).

Range: known only from Eastern Rhodopes, Bulgaria.

***Dorypetalum degenerans* (Latzel, 1884)**

Lysiopetalum degenerans Latzel, 1884, Myriopoden Österr.-Ungar. Mon., 2: 218, Taf. IX, fig. 111, Taf. X, fig. 112. ST: 2 MM*, 3 FF*, 2 fragm.* (NHMW), 5 FF, 1 larva (ZMB) from Serbia. Latzel, 1888, Verh. k.k. Zool. Bot. Ges. Wien, 38: 92. Daday, 1889, Termész. Füz., 12: 131. Daday, 1889, Myriopoda Regni Hungariae: 61, Tab. 1, figs 24–25. Karlinski, 1894, Sep. Wiss. Mitt. Bosnien Hercegovina, 2: 691. Verhoeff, 1899, Arch. Naturgesch., 65 (1): 229. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 334. Stagl, 2006, Norw. J. Ent., 53: 227, 233.

Dorypetalum degenerans: Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 50, Taf. 8, figs 15–18. Verhoeff, 1900, Arch. Naturgesch., 66 (1): 223. Attems, 1929, Zool. Jahrb. {Syst.}, 56: 323. Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 122, figs 8–9. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 32. Strasser, 1974, Rev. Suisse Zool., 81 (1): 260 (key). Korsós, 1992, Ber. Nat.-Med. Verein Innsbruck, Suppl., 10: 237. Mršić, 1993, Razpr. IV.

Razr. SAZU, 34 (2): 26. Korsós, 1994, Misc. Zool. Hung., 9: 36. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Korsós et al., 2002, Ann. Hist. Nat. Mus. Nat. Hung., 94: 203. Makarov et al., 2004, Inst. Zool. Monogr., 9: 244. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 10. Stoev & Enghoff, 2006, Zootaxa, 1254: 36, figs 25–26 (revision).

Dorypetalum degenerans subsp.: Jawlowski, 1938, Ann. Mus. Zool. Polonici, 13 (14): 169.

Range: Romania, Serbia (incl. Kosovo), Bosnia and Herzegovina, Republic of Macedonia, Greece? (Morea: Kumani, Demiobas; cf. Daday 1889c). Introduced in Budapest, Hungary.

***Dorypetalum helenae* Stoev & Enghoff, 2006**

Dorypetalum helenae Stoev & Enghoff, 2006, Zootaxa, 1254: 31, figs 2–14. Male HT* (ZMUC) from Keşan, Edirne Province, Turkey. Enghoff, 2006, Steenstrupia, 29 (2): 186.

Range: known only from the type locality.

***Dorypetalum marmaratum* Hoffman & Lohmander, 1964**

Dorypetalum marmaratum Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 119, figs 2–5. Male HT (ZMUH) from Yalova, Asiatic Turkey. Strasser, 1974, Rev. Suisse Zool., 81 (1): 260 (key). Rack, 1974, Mitt. Hamb. Zool. Mus. Inst., 70: 112. Stoev & Enghoff, 2006, Zootaxa, 1254: 38, figs 27–28 (revision). Enghoff, 2006, Steenstrupia, 29 (2): 186.

Range: known only from the type locality.

***Dorypetalum trispiculigerum* Verhoeff, 1900**

Dorypetalum degenerans trispiculigerum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 64, fig. 27. ST (possibly ZSM, type status of specimens uncertain) from Corfu, Greece. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 190. Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1514, fig. 914.

Dorypetalum trispiculigerum: Strasser, 1974, Rev. Suisse Zool., 81 (1): 258, 260 (key), figs 47–53. Strasser, 1976, Rev. Suisse Zool., 83 (3): 602, fig. 31. Mauriès et al., 1997, Zoosystema, 19 (2–3): 261.

Range: known from Greece (Epirus Province and Corfu Island) and South Albania.

Subfamily Cyphocallipodinae Verhoeff, 1909

Cyphocallipodinae Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 211. Three monotypic genera, Iberian Peninsula.

Genus *Cyphocallipus* Verhoeff, 1909

Cyphocallipus Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 211. Type species: *C. excavatus* Verhoeff, 1909, by monotypy.

***Cyphocallipus excavatus* Verhoeff, 1909**

Cyphocallipus excavatus Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 211. Type (4 specimens, ST, ZSM) from Algeciras, South Spain. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 396. Mauriès, 1978, Ann. Naturhist. Mus. Wien, 81: 582, figs 19–24.

Range: known only from two localities in Cadiz Province, Spain.

Genus *Dorycallipus* Verhoeff, 1909

Dorycallipus Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 211. Type species: *D. arcuum*, by monotypy.

***Dorycallipus arcuum* Verhoeff, 1909**

Dorycallipus arcuum Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 211. HT (ZSM) from unspecified site in southern Spain. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 396. Mauriès, 1978, Ann. Naturhist. Mus. Wien, 81: 585.

Range: known only from the type locality.

Genus *Lusitanipus* Mauriès, 1978

Lusitanipus Mauriès, 1978, Ann. Naturhist. Mus. Wien, 81: 582. Type species: *Lysioptalum alternans* Verhoeff, 1893, by monotypy.

***Lusitanipus alternans* (Verhoeff, 1893)**

Lysioptalum alternans Verhoeff, 1893, Zool. Anz., 16 (419): 167. ST: 2 FF* (NHMW), 1 F (ZMUH), 1F (SMF) from Portugal. Verhoeff, 1895, Zool. Anz., 18: 206. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 66. Weidner, 1960, Mitt. Hamb. Zool. Mus. Inst., 58: 94.

Silvestria alternans: Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 212.

Lusitanipus alternans: Mauriès, 1978, Ann. Naturhist. Mus. Wien, 81: 582. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 7.

Range: known only from unspecified locality in Portugal.

Family Paracortinidae Wang & Zhang, 1993

Paracortinidae Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 375 (Chinese), 386 (English). Wang, 1996, Mém. Mus. Natl. Hist. Nat., 169: 307. Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 94 (revision).

Two genera – *Angulifemur* and *Paracortina*, southern China and Vietnam.

Genus *Angulifemur* Zhang, 1997

Angulifemur Zhang, 1997, Thesis Compilation of Tianjin Natur. Hist. Mus., 14: 1. Type species: *Angulifemur tridigitis* Zhang, 1997, by original designation.

Two species, Yunnan Province, China.

Remark: Genus *Angulifemur* was erected in an obscure paper by Zhang (1997) published in the Thesis Compilation of Tianjin Natural History Museum. The publication remained unknown to the international myriapodological society until recently, and due to the regional character of the journal and its poor circulation to the “western” libraries, it was missed in the second edition of the “Nomenclator generum et familiarum Diplopodorum II” (Shelley et al. 2000). The genus is weakly diagnosed showing no significant differences from *Paracortina* (cf. Stoev & Geoffroy 2004) and will most likely fall into the synonymy of latter when types are re-examined and further material becomes available for study.

***Angulifemur tridigitis* Zhang, 1997**

Angulifemur tridigitis Zhang, 1997, Thesis Compilation of Tianjin Natur. Hist. Mus., 14: 2, figs 2–11. Male HT (IZCAS) from Yang-fen Cave, Mengzi County, Yunnan, China.

Range: caves in Mengzi County, southern Yunnan, China.

***Angulifemur unidigitis* Zhang, 1997**

Angulifemur unidigitis Zhang, 1997, Thesis Compilation of Tianjin Natur. Hist. Mus., 14: 2, figs 2–15. Male HT (IZCAS) from Longbaopo Cave, Mengzi County, Yunnan, China.

Paracortina (Altum) wangi Stoev, 2004, Zootaxa, 441: 2, figs 1–11. Male HT* (SOFM), Male PT (MNHN) from Wulichong Sinkhole Cave, Mengzi County, Yunnan, China. New synonym.

Range: caves in Mengzi County, southern Yunnan, China.

Remark: There is no doubt that *A. unidigitis* Zhang, 1997 and *Paracortina wangi* Stoev, 2004 are conspecific. Both species were reported from the same cave system Long Bao Pao Dong – Wulichong Sinkhole situated in the karst plateau south of Mengzi. This obvious synonymy could have been avoided if the first author were aware of the paper of Zhang in the time of the description of *P. wangi*.

Genus *Paracortina* Wang & Zhang, 1993

Paracortina Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 375 (Chinese), 387 (English). Type species: *P. leptoclada* Wang & Zhang, 1993, by original designation.

Altum Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 381 (Chinese), 388 (English). Type species: *A. viriosum* Wang & Zhang, 1993, by original designation. Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 94. Synonymized with *Paracortina* by Stoev & Geoffroy (2004).

Relictus Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 378 (Chinese), 387 (English). Type species: *R. stimulus* Wang & Zhang, 1993, by original designation. Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 94. Synonymized with *Paracortina* by Stoev & Geoffroy (2004).

Scotopetalum Shear, 2000, Myriapodologica, 6 (11): 96. Type species: *S. warreni* Shear, 2000, by original designation. Synonymized with *Paracortina* by Stoev & Geoffroy (2004).

Ten species, southern China and northcentral Vietnam.

***Paracortina carinata* (Wang & Zhang, 1993)**

Altum carinatum Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 385 (Chinese), 389 (English), figs 29–32. Male HT (not located at IZCAS) from Zhong Dian County, Yunnan, China. Wang, 1996, Mém. Mus. Natl. Hist. Nat., 169: 308.

Paracortina (Altum) carinata: Wang & Mauriès, 1996, Mém. Mus. Natl. Hist. Nat., 169: 86. Shear et al., 2003, Zootaxa, 365: 6.

Paracortina carinata: Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 103, fig. 18.

Range: Zhong Dian County, NW Yunnan, China.

***Paracortina chinensis* Stoev & Geoffroy, 2004**

Paracortina chinensis Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 94, figs 1–8. Male HT*, subadult MM and juvenile PT (MNHN) from Ke Ma Dong Cave (Grotte du Brouillard Matinal), Zheng Xiong County, Yunnan, China.

Range: caves in Zheng Xiong County, NE Yunnan, China.

***Paracortina leptoclada* Wang & Zhang, 1993**

Paracortina leptoclada Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 376 (Chinese), 387 (English), figs 1–5.

Male HT (not located at IZCAS) from Zhong Dian County, China. Wang & Mauriès, 1996, Mém. Mus. Natl. Hist.

Nat., 169: 86. Wang, 1996, Mém. Mus. Natl. Hist. Nat., 169: 308. Shear et al., 2003, Zootaxa, 365: 6. Stoev &

Geoffroy, 2004, Acta Arachnol., 53 (2): 103, fig. 19.

Range: Zhong Dian County, NW Yunnan, China.

***Paracortina multisegmentata* Stoev & Geoffroy, 2004**

Paracortina multisegmentata Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 97, figs 9–17. Male HT* 3 MM PT (MNHN), Male PT (SOFM) from Moc-Trach Cave near Ngoc-Lac, Thanh Hoa Province, Vietnam.

Range: caves in Thanh Hoa Province, Vietnam.

***Paracortina serrata* (Wang & Zhang, 1993)**

Altum serratum Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 383 (Chinese), 389 (English), figs 24–28. Male

HT (not located at IZCAS) from De Qin County, Tibet, China. Wang, 1996, Mém. Mus. Natl. Hist. Nat., 169: 308.

Paracortina (*Altum*) *serrata*: Wang & Mauriès, 1996, Mém. Mus. Natl. Hist. Nat., 169: 86. Shear et al., 2003, Zootaxa, 365: 6.

Paracortina serrata: Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 102, fig. 20.

Range: De Qin County, Tibet, China.

***Paracortina stimula* (Wang & Zhang, 1993)**

Relictus stimulus Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 379 (Chinese), 388 (English), figs 10–13.

Male HT (not located at IZCAS) from Zhong Dian County, Yunnan, China. Wang, 1996, Mém. Mus. Natl. Hist. Nat., 169: 308.

Paracortina (*Relictus*) *stimula*: Wang & Mauriès, 1996, Mém. Mus. Natl. Hist. Nat., 169: 86. Shear et al., 2003, Zootaxa, 365: 6.

Paracortina stimula: Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 102, fig. 21.

Range: Zhong Dian County, NW Yunnan, China.

***Paracortina thallina* (Wang & Zhang, 1993)**

Relictus thallinus Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 380 (Chinese), 388 (English), figs 14–18.

Male HT (not located at IZCAS) from Ba Tang County, Sichuan and Zhong Dian County, Yunnan, China. Wang, 1996, Mém. Mus. Natl. Hist. Nat., 169: 308.

Paracortina (*Relictus*) *thallina*: Wang & Mauriès, 1996, Mém. Mus. Natl. Hist. Nat., 169: 86. Shear et al., 2003, Zootaxa, 365: 6.

Paracortina thallina: Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 103, fig. 22.

Range: Ba Tang County, Sichuan and Zhong Dian County, NW Yunnan, China.

***Paracortina viriosa* (Wang & Zhang, 1993)**

Altum viriosum Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 381 (Chinese), 388 (English) figs 19–23. Male

HT (not located at IZCAS) from Zhong Dian County, Yunnan and Mang Kang County, Tibet, China. Wang, 1996, Mém. Mus. Natl. Hist. Nat., 169: 308.

Paracortina (*Altum*) *viriosa*: Wang & Mauriès, 1996, Mém. Mus. Natl. Hist. Nat., 169: 86. Shear et al., 2003, Zootaxa, 365: 6.

Paracortina viriosa: Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 103, fig. 23 (key).

Range: Zhong Dian County, NW Yunnan and Mang Kang County, Tibet, China.

***Paracortina voluta* Wang & Zhang, 1993**

Paracortina voluta Wang & Zhang, 1993, Peking Nat. Hist. Mus., Mem., 53: 377 (Chinese), 387 (English), figs 6–9.

Male HT (not located at IZCAS) from Ya Zhang County, Sichuan, China. Wang & Mauriès, 1996, Mém. Mus. Natl.

Hist. Nat., 169: 86. Wang, 1996, Mém. Mus. Natl. Hist. Nat., 169: 308. Shear et al., 2003, Zootaxa, 365: 6. Stoev &

Geoffroy, 2004, Acta Arachnol., 53 (2): 103, fig. 24.

Range: Ya Zhang County, Sichuan, China.

***Paracortina warreni* (Shear, 2000)**

Scotopetalum warreni Shear, 2000, Myriapodologica, 6 (11): 96, fig. 1. Male HT (Western Australian Museum) from unnamed cave at Hong Mat, Vietnam. Shear et al., 2003, Zootaxa, 365: 6. Enghoff et al., 2004, Arthr. Sel., 13 (1–2): 36.

Paracortina warreni: Stoev & Geoffroy, 2004, Acta Arachnol., 53 (2): 102, fig. 25.

Range: known only from two caves in Hoabinh Province, Vietnam.

Family Schizopetalidae Verhoeff, 1909

Schizopetalinae Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 212.

Schizopetalidae: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 112, 123.

Four subfamilies, Western North America, Northeastern Mediterranean realm.

Subfamily Acanthopetalinae Hoffman & Lohmander, 1964

Acanthopetalinae Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 112.

Three tribes – Acanthopetalini, Apflebeckiini and Prolysipetalini. Apennine and Balkan peninsulas, and Asia Minor.

Tribe Acanthopetalini Hoffman, 1980

Acanthopetalini Hoffman, 1980, Classification of the Diplopoda: 121.

Three genera – *Acanthopetalum* (with the subgenus *Petalysium*), *Balkanopetalum* and *Eurygyrus*. Apennine and Balkan peninsulas, and Asia Minor.

Genus *Acanthopetalum* Verhoeff, 1900

Acanthopetalum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 52. Type species: *Lysiopetalum sicanum* Berlese, 1883, by subsequent designation by Hoffman & Lohmander (1964).

Rhopalopetalum Verhoeff, 1929, Mitt. Höhlen- und Karstforsch., 114. Type species: *R. calyciferum* Verhoeff, 1929, by subsequent designation by Jeekel (1971). Synonymy proposed by Hoffman (1980).

Anoplopetalum Brolemann, 1932, Bull. Soc. Zool. France, 57: 53. Type species: *Rhopalopetalum (Anoplopetalum) Blanci* Brolemann, 1932, by monotypy. Synonymy proposed by Hoffman (1980).

Atticopetalum Verhoeff, 1941, Mitt. Höhlen- und Karstforsch.: 48. Type species: *Lysiopetalum pallidum* Verhoeff, 1941, by monotypy. Synonymy proposed by Hoffman (1980).

Osmanopetalum Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 124. Type species: *Lysiopetalum koss-wigi* Verhoeff, 1940, by monotypy. Synonymy proposed by Hoffman (1980).

Two subgenera – *Acanthopetalum* and *Petalysium*, the Apennines (incl. Sicily and Lipari islands), Balkan Peninsula (mainly western and southern parts), Aegean coast of Turkey. Introduced on Malta and Gozo?

Subgenus *Acanthopetalum* Verhoeff, 1900

Acanthopetalum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 52. Attems, 1902, S.B. Kaiser. Akad. Wiss. Wien, 111 (I): 593 (key to species). Strasser, 1974, Rev. Suisse Zool., 81 (1): 250, 253 (key to species). Strasser, 1976, Rev. Suisse Zool., 83 (3): 599 (key to species of *furculigerum* group).

Ten species (15 subspecies). Same distribution as the genus.

***Acanthopetalum albidicolle* (Verhoeff, 1900)**

Lysiopetalum (Acanthopetalum) albidicolle Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 55, Taf. IX, figs 38–39. ST: M, F, juv.* (NHMW), M, F, juv., microscope slides (ZMB) from Corfu, Greece. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 189. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 325.

Acanthopetalum albidicolle: Strasser, 1970, Senckenb. Biol., 51 (3–4): 241, figs 10–11. Strasser, 1974, Rev. Suisse Zool., 81 (1): 254. Strasser, 1976, Rev. Suisse Zool., 83 (3): 637, 638. Mauriès et al., 1997, Zoosystema, 19 (2–3): 261. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 6

Range: known only from the Greek island of Corfu and southern Albania (cf. Strasser 1976 and Mauriès et al. 1997).

***Acanthopetalum albidicolle aetolicum* (Verhoeff, 1903)**

Lysiopetalum albidicolle aetolicum Verhoeff, 1903, Arch. Naturgesch., 69 (1): 147, figs 1–2 (see also p. 151). ST: 2 MM, 2 FF* (NHMW), 2 MM, 3 FF, 4 juv. (ZMB) from Stoliko in Aetolien, Greece (see Stagl & Stoev, 2005 for the origin of the Vienna types). Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 324.

Acanthopetalum albidicolle aetolicum: Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 5, fig. 1. Range: western part of Mainland Greece.

Remark: the taxonomic status of this subspecies is uncertain.

***Acanthopetalum blanci* (Brolemann, 1932)**

Rhopalopetalum (*Anoplopetalum*) *Blanci* Brolemann, 1932, Bull. Soc. Zool. France, 57: 45, figs 1–12. 1 Male HT, 2 MM and 1 female PT (MNHN) from Keratrea cave near Athens, Greece.

Lysiopetalum (*Atticopetalum*) *pallidum* Verhoeff, 1941, Mitt. Höhlen- und Karstforsch., 48, figs 1–4. Types (possibly ZSM, type status of specimen uncertain) from “Athen”, Greece. Synonymy proposed by Strasser (1974a).

Acanthopetalum blanci: Strasser, 1974, Rev. Suisse Zool., 81 (1): 248, figs 34–35, 40. Strasser, 1976, Rev. Suisse Zool., 83 (3): 637.

Acanthopetalum blanci var. *hymitti* Strasser, 1974, Rev. Suisse Zool., 81 (1): 251, figs 36, 41. Material: 2 MM and 1 juv. (MNHN) from Attika: Hymittos Mts, E of Athens, and cave Havara near Vari.

Acanthopetalum blanci var. *pallidum*: Strasser, 1974, Rev. Suisse Zool., 81 (1): 251, fig. 37.

Acanthopetalum blanci var. *lavrionense* Strasser, 1976, Rev. Suisse Zool., 83 (3): 593, fig. 20. Material: 1 M, 2 FF, 1 juv. (MNHN) from a cave near Kitsos near Kamarisa, Lavrion, Greece.

Range: known from Attica, Greece.

***Acanthopetalum cycladium* (Verhoeff, 1901)**

Lysiopetalum (*Acanthopetalum*) *cycladicum* Verhoeff, 1901, Arch. Naturgesch., 67 (1): 258, fig. 31 (see also p. 247). Male HT (ZMB) from Syra Island, Greece. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 333.

Acanthopetalum cycladicum: Strasser, 1974, Rev. Suisse Zool., 81 (1): 254. Strasser, 1976, Rev. Suisse Zool., 83 (3): 595, 637.

Acanthopetalum chalkidicense Strasser, 1967, Senckenb. Biol., 48 (4): 280, figs 12–16. Male HT from a cave near village of Vrasna, 2 FF PT from a cave near Stavros, Chalkidiki Peninsula, Greece (all in SMF). Synonymy proposed by Strasser (1970b).

Range: known from the Cycladic island Syros, Chalkidiki Peninsula and eastern Macedonia, Greece.

***Acanthopetalum furculigerum* (Verhoeff, 1901)**

Lysiopetalum (*Acanthopetalum*) *furculigerum* Verhoeff, 1901, Arch. Naturgesch., 67 (1): 258, figs 2–3 (see also p. 247). Male HT (ZMB) from Lasithi Mts, Crete, Greece. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 336.

Acanthopetalum furculigerum: Strasser, 1974, Rev. Suisse Zool., 81 (1): 254. Strasser, 1976, Rev. Suisse Zool., 83 (3): 595, 599 (key to varieties and subspecies). Enghoff, 2006, Steenstrupia, 29 (2): 187.

Range: known only from the Greek island of Crete.

***Acanthopetalum furculigerum eumenes* Hoffman, 1973**

Acanthopetalum hamatum eumenes Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 93, figs 7–9. Male HT (ZMUH) from Bergama, Aegean coast of Turkey. Rack, 1974, Mitt. Hamb. Zool. Mus. Inst., 70: 112.

Range: known only from the type locality.

***Acanthopetalum furculigerum kosswigi* (Verhoeff, 1940)**

Lysiopetalum (*Osmanopetalum*) *kosswigi* Verhoeff, 1940, Rev. Fac. Sci. Univ. Istanbul, 5 (1–2): 16, figs 13–16. ST: one specimen, probably F* (NHMW) and 1 F (ZMB) from Istanbul, Turkey. Verhoeff, 1941, Rev. Fac. Sci. Univ. Istanbul, 6: 295, fig. 24. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 339.

Lysiopetalum (*Osmanopetalum*) *kosswigii* [sic!] *costatum* Verhoeff, 1941, Rev. Fac. Sci. Univ. Istanbul, 6: 296, fig. 23. Male ST? (identified specimens in ZSM, type repository unknown) from unspecified locality in Turkey.

Acanthopetalum kosswigi: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 125, figs 10–12. Strasser, 1970, Senckenb. Biol., 51 (3–4): 246, 251, fig. 14.

Acanthopetalum minotauri kosswigi: Strasser, 1975, Rev. Suisse Zool., 82 (3): 589.

Acanthopetalum furculigerum kosswigi: Strasser, 1976, Rev. Suisse Zool., 83 (3): 600, 637. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 16.

Range: known from the European and Asiatic (Aegean) parts of Turkey and the Greek island of Kos.

***Acanthopetalum furculigerum patens* Strasser, 1973**

Acanthopetalum patens Strasser, 1973, Fragm. Entomol., 8 (5): 241, figs 5–8. Male HT (MHNG) from a cave in Peloponnese, Greece. Strasser, 1974, Rev. Suisse Zool., 81 (1): 254.

Acanthopetalum furculigerum patens: Strasser, 1976, Rev. Suisse Zool., 83 (3): 600, 637.

Range: known only from Peloponnese, Greece.

***Acanthopetalum furculigerum transitionis* Strasser, 1976**

Acanthopetalum furculigerum transitionis Strasser, 1976, Rev. Suisse Zool., 83 (3): 597, figs 23–24, 26. Male HT (MZUL) from Cave Milatos near Milatos, Iraklion, Crete, Greece.

Range: known only from the Greek island of Crete.

***Acanthopetalum hamatum* (Attems, 1903)**

Lysiopetalum (Acanthopetalum) hamatum Attems, 1903, Zool. Jahrb. {Syst.}, 18: 129, Taf. 8, figs 24–27. ST*: 2 MM, 1 F, two slides of gonopods and legs 1–7 (NHMW) from “Kleinasien”.

Rhopalopetalum hamatum: Verhoeff, 1929, Mitt. Höhlen- und Karstforsch.: 115.

Lysiopetalum (Osmanopetalum) hamatum: Verhoeff, 1940, Rev. Fac. Sci. Univ. Istanbul, 5: 23.

Acanthopetalum hamatum: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 125, figs 13–14. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 13.

Acanthopetalum furculigerum hamatum: Strasser, 1976, Rev. Suisse Zool., 83 (3): 595, 638.

Range: known only from unspecified locality in Asia Minor.

***Acanthopetalum hoplites* Strasser, 1973**

Acanthopetalum hoplites Strasser, 1973, Fragm. Entomol., 8 (5): 237, figs 1–4. Male HT (MZUL?), Male PT (MHNG) from a cave on the Cycladic island Antiparos, Greece. Mauriès & Karamaouna, 1984, Biol. Gallo-Hell., 11 (1): 55.

Range: known from caves on the Cycladic islands Paros, Antiparos and Naxos.

***Acanthopetalum mendelicum* Strasser, 1974**

Acanthopetalum blanci mendelicum Strasser, 1974, Rev. Suisse Zool., 81 (1): 250, figs 38–39, 42. Male HT, 2 FF and 1 juvenile PT (MNHN), Male and female PT (MHNG) from “Mendeli” (=? Pendeli, NE of Athens), Greece.

Acanthopetalum mendelicum: Strasser, 1976, Rev. Suisse Zool. 83 (3): 594, 637.

Range: uncertain locality, probably in Attica, Greece.

***Acanthopetalum minotauri* (Attems, 1902)**

Lysiopetalum (Acanthopetalum) minotauri Attems, 1902, S.B. Kaiser. Akad. Wiss. Wien, 111 (I): 588, Taf. 2, figs 20–29. ST: 86 MM, 74 FF* (NHMW), 2 MM (ZMB) from Labyrinth, Homalos and Aselakia, Crete, Greece. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 342.

Rhopalopetalum calyciferum Verhoeff, 1929, Mitt. Höhlen- und Karstforsch., 116, figs 1–4. ST: juv. F, larva (ZMB) from a cave near Labyrinth, Crete, Greece. Synonymy proposed by Strasser (1967). Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 332.

Lysiopetalum calyciferum: Lang, 1964, Vest. Českosl. Spol. Zool., 28 (3): 239.

Acanthopetalum minotauri: Strasser, 1967, Senckenb. Biol., 48 (4): 275. Strasser, 1970, Senckenb. Biol., 51 (3–4): 245. Strasser, 1974, Rev. Suisse Zool., 81 (1): 254. Ćurčić et al., 2001, Arch. Biol. Sci., 53 (3–4): 103, figs 4–6. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 17.

Acanthopetalum minotauri var. *dentata* Strasser, 1967, Senckenb. Biol., 48 (4): 278, figs 6–9. Material (SMF) from Cave

Agia Sofia, Topolia, Crete, Greece.

Acanthopetalum minotauri var. *edentula* Strasser, 1967, Senckenb. Biol., 48 (4): 278, figs 10–11. Material (SMF) from Chora Skafion and Knossos/Iraklion, Crete, Greece.

Acanthopetalum furculigerum minotauri: Strasser, 1976, Rev. Suisse Zool., 83 (3): 600, 637.

Range: known only from the Greek island of Crete.

***Acanthopetalum richii* (Gray, 1832)**

Craspedosoma Richii Gray, 1832, In: Griffith and Pidgeon, The class Insecta arranged by Baron Cuvier, pl. 135, fig. 4. Type (sex and whereabouts unknown) from Malta. Gervais, 1837, Ann. Sci. Nat., Zool., 7: 47.

Platops Richii: Newport, 1844, Ann. Mag. Nat. Hist., Ser. 1, 13: 267.

Lysiopetalum Richii: C.L. Koch, 1847, System der Myriapoden: 125. Gervais, 1847, Hist. Nat. Ins. Apt., 4: 133. Pocock, 1893, Ann. Mag. Nat. Hist., Ser. 6, 11: 248.

Lysiopetalum sicanum Berlese, 1883 Acari, Myriopoda et Scorpiones hucusque in Italia reperta, fasc. 6: pl. 7, figs 1–12. Male HT (whereabouts unknown) from Sicily, Italy. Synonymy proposed by Pocock (1893). Karsch, 1888, Berliner Ent. Z., 32 (1): 224. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 58. Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 357. Strasser, 1965, Atti Accad. Gioenia Sci. Nat. Catania, 17: 18.

Lysiopetalum anceps Latzel, 1884, Myriopoden Österr-Ungar. Mon., 2: 232. ST: adult F* from Trieste, Italy, 2 adult FF* from “Österreichischen Küstenlande” (NHMW). Synonymy proposed by Pocock (1893). Attems, 1929, Zool. Jahrb. {Syst.}, 56: 321. Stagl, 2006, Norw. J. Ent., 53: 227, 234.

Eurygirus [sic!] *sicanus*: Silvestri, 1898, Boll. Soc. Ent. Ital. Genova, 29 (4): 250.

Lysiopetalum (Acanthopetalum) argolicum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 57, Taf. IX, figs 40–41. ST: M* from Peloponnese, Greece (NHMW), slides of other syntype specimens from Larisa and Tripoliza (ZMB). Synonymy proposed by Strasser (1970a). Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 189. Lang, 1964, Vest. Českosl. Spol. Zool., 28 (3): 238. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 326.

Lysiopetalum (Acanthopetalum) argolicum montivagum Verhoeff, 1901, Arch. Naturgesch., 67 (1): 257, fig. 1, see also p. 247. ST: 2 MM, 3 FF, 1 juv. (NHMW), 2 MM, 4 FF, 1 juv. (ZMB) from “Koras-Gebirge”, Greece?. Synonymy pro-

posed by Strasser (1970a). Verhoeff, 1903, Arch. Naturgesch., 69 (1): 151. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 342.

Acanthopetalum argolicum epiroticum Attems, 1935, Zool. Anz., 110: 151, figs 9–10. ST: M*, slide of gonopods and legs (NHMW) from Paraskevi, Epirus, Greece. Synonymy proposed by Strasser (1970a).

Acanthopetalum verhoeffii Strasser, 1933, Verh. Zool.-Bot. Ges. Wien, 83: 176, figs 1–2. Male HT (whereabouts unknown) from Cherso (Cres) Island, Croatia. Synonymy proposed by Strasser (1970a). Verhoeff, 1933, Verh. Zool.-Bot. Ges. Wien, 83: 168 (nomen nudum). Strasser, 1938, Zool. Jahrb. {Syst.}, 71: 403.

Lysiopetalum (Acanthopetalum) sicanum: Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 58. Verhoeff, 1939, Zool. Jahrb. {Syst.}, 72: 206, figs 1–4.

Lysiopetalum (Acanthopetalum) sicanum verhoeffii: Verhoeff, 1939, Zool. Jahrb. {Syst.}, 72: 207, figs 5–6.

Lysiopetalum sicanum verhoeffii: Manfredi, 1953, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 92: 95, 107.

Lysiopetalum (Acanthopetalum) sicanum: Strasser, 1959, Atti Mus. Civ. Stor. Nat. Trieste, 21: 169. Strasser, 1966, Acta Carsol., 4: 187.

Acanthopetalum sicanum: Strasser, 1970, Mem. Mus. Civ. Stor. Nat. Verona, 17: 156. Strasser, 1971, Mem. Mus. Civ. Stor. Nat. Verona, 19: 8. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 30. Strasser, 1976, Rev. Suisse Zool., 83 (3): 593. Minelli, 1978, Animalia, 5 (1–3): 288. Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204. Minelli, 1985, Mem. Mus. Civ. Stor. Nat. Verona, 4: 14. Enghoff & Schembri, 1989, Boll. Soc. Entomol. Ital., 120: 168. Enghoff et al., 1993, Zool. J. Linn. Soc., 109: 145. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 237.

Acanthopetalum richii: Jeekel, 2000, Myriapod Memor., 2: 52. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 7, 12.

Range: Slovenia, Croatia (incl. Cres Island), Greece, Italy (regions of Venezia and Puglia, also Sicily and Lipari islands), Malta, Gozo.

Remark: see Minelli (1985) for the complete bibliography concerning the Italian cave records. The record of Karsch (1888) is doubtful and may actually refer to another species of *Acanthopetalum*.

***Acanthopetalum subpatens* Mauriès, Golovatch & Stoev, 1997**

Acanthopetalum subpatens Mauriès, Golovatch & Stoev, 1997, Zoosystema, 19 (2–3): 264, fig. 4 A–F. Male HT* (SOFM), 1 M and female PT (MNHN) from a cave on the road Permet-Leskoviku, Leskoviku District, Albania. Stoev & Beron, 2001, Arthr. Sel., 9 (2): 97.

Range: known only from the type locality.

Subgenus *Petalysium* Strasser, 1976

Petalysium Strasser, 1974, Rev. Suisse Zool., 81 (1): 247 [type species not designated]. Strasser, 1976, Rev. Suisse Zool., 83 (3): 604. Type species: *Lysiopetalum carinatum* Brandt, 1840, by subsequent designation by Strasser (1976).

One species, Western Balkan Peninsula.

***Acanthopetalum carinatum* (Brandt, 1840)**

Lysiopetalum carinatum Brandt, 1840, Rec. Mém. relat. ord. Ins. Myriapodes: 42. Type (ZIN?) from Dalmatia, Croatia. Gervais, 1847, Hist. Nat. Ins. Apt., 4: 131. Latzel, 1884, Die Myriopoden der Österreichisch-Ungarischen Monarchie, 2: 228. Gasperini, 1892, Prilog k dalmatinskoj fauni, 8. Karlinski, 1894, Sep. Wiss. Mitt. Bosnien Hercegovina, 2: 691. Verhoeff, 1897, Arch. Naturgesch., 63 (1): 153. Verhoeff, 1899, Wiss. Mitt. Bosnien Hercegovina, 6: 761. Verhoeff, 1909, Wiss. Mitt. Bosnien Hercegovina, 11: 717. Verhoeff, 1923, Arch. Naturgesch., 89A (4): 145–146, figs 17, M, N. Attems, 1926, Handb. Zool., 4 (1): 178, fig. 217. Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322. Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 635. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71. Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1505, fig. 904. Manfredi, 1945, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 84: 26. Lang, 1964, Vest. Českosl. Spol. Zool., 28 (3): 238. Georgieva, 1969, Ann. Fac. Sci. Univ. Skopje, 21: 189. Stagl, 2006, Norw. J. Ent., 53: 233.

Lysiopetalum (Lysiopetalum) thessalorum Verhoeff, 1901, Arch. Naturgesch., 67 (1): 259, fig. 11, see also p. 248. ST: 2 MM (ZMB) from Plioca near Vlorë (Valona) and Paschaliman, Albania. Synonymy proposed by Mauriès et al. (1997). Verhoeff, 1923, Arch. Naturgesch., 89A (4): 146. Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 349.

Lysiopetalum comma Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 58, Taf. 9, figs 30–33, see also p. 190. ST: M, F, juv.* (NHMW), slides of gonopods and leg-pairs (ZMB) from Corfu, Greece. Synonymy proposed by Mauriès et al. (1997). Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 190. Verhoeff, 1923, Arch. Naturgesch., 89A (4): 145. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 333.

Lysiopetalum macedonicum Verhoeff, 1923, Arch. Naturgesch., 89A (4): 146, figs K & L. ST: M, F, juv. (possibly ZSM, type status of specimen uncertain), 1 F (ZMB) from “Topolka-Schlucht” near Veles and from Vodno near Ūsküb (now Skopje), Republic of Macedonia. Synonymy proposed by Mauriès et al. (1997). Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322. Lang, 1964, Vest. Českosl. Spol. Zool., 28 (3): 238, 239. Moritz & Fischer, 1974, Mitt. Zool. Mus.

Berlin, 50 (2): 341.

Lysiopetalum albanicum Verhoeff, 1932, Zool. Jahrb. {Syst.}, 62: 480, figs 4–6. ST: M* (NHMW), F (ZMB) from Korab Mts, Jablanica Mts and probably also Shar Planina Mts (mountain ranges stretching in Albania, Serbia (Kosovo) and Republic of Macedonia (see Stagl & Stoev, 2005 for the origin of the Vienna types). Synonymy proposed by Mauriès et al. (1997). Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 324.

Lysiopetalum comma janinense Verhoeff, 1932, Zool. Jahrb. {Syst.}, 62: 481, figs 10–11. Female ST (ZMB) from “Janina, Recko”. Synonymy proposed by Mauriès et al. (1997). Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 338.

Lysiopetalum thessalorum lychnitis Verhoeff, 1932, Zool. Jahrb. {Syst.}, 62: 482, figs 7–9. Male HT (identified specimens in ZSM, type repository unknown) from Ohrid, Macedonia. Synonymy proposed by Mauriès et al. (1997).

Acanthopetalum albanicum: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 30. Mršić, 1993, Razpr. IV. Razr. SAZU, 34 (2): 24.

Acanthopetalum macedonicum: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 30. Mršić, 1993, Razpr. IV. Razr. SAZU, 34 (2): 24.

Acanthopetalum thessalorum: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 30. Mršić, 1993, Razpr. IV. Razr. SAZU, 34 (2): 24.

Acanthopetalum thessalorum lychnitis: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 30. Mršić, 1993, Razpr. IV. Razr. SAZU, 34 (2): 24.

Acanthopetalum comma: Strasser, 1974, Rev. Suisse Zool., 81 (1): 255, fig. 43. Strasser, 1976, Rev. Suisse Zool., 83 (3): 600, 637.

Acanthopetalum carinatum: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 30. Mršić, 1993, Razpr. IV. Razr. SAZU, 34 (2): 24. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 236. Mauriès et al., 1997, Zoosystema, 19 (2–3): 262, 289, fig. 3 F–J. Makarov et al., 2004, Inst. Zool. Monogr., 9: 242. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 6, 9, 21.

Range: Albania, Republic of Macedonia, Montenegro, Bosnia and Herzegovina, Croatia (incl. Brach Island), Slovenia, Greece (incl. Corfu Island), Serbia.

Remark: Makarov et al. (2004) reviewed all species' records in Republic of Macedonia and Montenegro. Lang (1964) reported *Lysiopetalum macedonicum* from the Catholico Cave on Crete, but taking into account the general poor quality of his works this find could be due to misidentification.

Genus *Balkanopetalum* Verhoeff, 1926

Balkanopetalum Verhoeff, 1926, Zool. Anz., 68 (1/2): 57. Type species: *B. armatum* Verhoeff, 1926, by monotypy. Stoev & Enghoff, 2003, Zootaxa, 272: 1–26 (revision).

Six species, western and southern Bulgaria and northern Greece.

***Balkanopetalum armatum* Verhoeff, 1926**

Balkanopetalum armatum Verhoeff, 1926, Zool. Anz., 68 (1/2): 58, figs 1–3. Male HT* (SOFM) from Studenata Cave near Cherepish Monastery, Bulgaria. Verhoeff, 1937, Mitt. Königl. Naturw. Inst. Sofia, 10: 97, fig. 4. Strasser, 1966, Ann. Zool., 23 (12): 348. Strasser, 1969, Ann. Zool., 27 (7): 145. Beron, 1994, Tranteeva, 1: 38. Stoev & Beron, 2001, Arthr. Sel., 9 (2): 97. Stoev & Enghoff, 2003, Zootaxa, 272: 5, figs 1–3 (revision).

Range: caves in Western Stara planina Mts, Bulgaria.

***Balkanopetalum beskovi* Strasser, 1973**

Balkanopetalum beskovi Strasser, 1973, Ann. Zool., 30 (15): 427, figs 22–24. ST* (SOFM) from Topchika Cave near Dobrostan, Bulgaria. Beron, 1994, Tranteeva, 1: 83. Stoev & Beron, 2001, Arthr. Sel., 9 (2): 97. Stoev & Enghoff, 2003, Zootaxa, 272: 10, figs 7–9 (revision).

Range: caves in Central Rhodopes, Bulgaria.

Remark: The record from Garvanyovitsa Cave near Turen (Strasser 1969) which later Strasser (1973a) referred to as *B. beskovi* was based on juveniles only and needs to be confirmed with new material, including adult males (cf. Stoev & Enghoff 2003).

***Balkanopetalum bulgaricum* Stoev & Enghoff, 2003**

Balkanopetalum bulgaricum Stoev & Enghoff, 2003, Zootaxa, 272: 14, figs 13–15. Male HT* (SOFM) from Starshelitsa Cave near Goleshevo, Gotse Delchev District, Bulgaria. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, Band 19, Heft 2: 21.

Range: known from the mountains Pirin and Slavyanka in South Bulgaria and caves near Alistrati in North Greece.

***Balkanopetalum graecum* Stoev & Enghoff, 2003**

Balkanopetalum graecum Stoev & Enghoff, 2003, *Zootaxa*, 272: 17, figs 16–19. Male HT* (SOFM) from Dupkata Cave near Pachni, Xanthi District, northern Greece.

Range: known from caves in the Rhodopes Mts (Greece and Bulgaria).

Remark: This species was recently found in Boevskata peshtera Cave, Bulgaria (SOFM; P. Stoev, unpubl.).

***Balkanopetalum petrovi* Stoev & Enghoff, 2003**

Balkanopetalum petrovi Stoev & Enghoff, 2003, *Zootaxa*, 272: 12, figs 10–12. Male HT* (SOFM) from Samara Cave near Ribino, Momchilgrad District, Bulgaria. Stoev, 2004, *Biodiversity of Bulgaria*, 2: 215.

Range: known from caves in the Eastern Rhodopes Mts, Bulgaria; one record from disused mine gallery.

***Balkanopetalum rhodopinum* Verhoeff, 1937**

Balkanopetalum rhodopinum Verhoeff, 1937, *Mitt. Königl. Naturw. Inst. Sofia*, 10: 97, figs 1–3. Male LT* (SOFM), 1 F PLT (ZMB) from Novata Cave near Peshtera, Bulgaria. Lang, 1958, *Vest. Českosl. Spol. Zool.*, 22: 39. Strasser, 1966, *Ann. Zool.*, 23 (12): 349. Strasser, 1969, *Ann. Zool.*, 27 (7): 145. Moritz & Fischer, 1974, *Mitt. Zool. Mus. Berlin*, 50 (2): 346. Strasser, 1975, *Acta Zool. Bulg.*, 3: 74. Stoev & Beron, 2001, *Arthr. Sel.*, 9 (2): 97. Stoev & Enghoff, 2003, *Zootaxa*, 272: 8, figs 4–6 (revision).

Range: known from caves in the northwestern part of Rhodopes Mts, Bulgaria.

Genus *Eurygyrus* C.L. Koch, 1847

Eurygyrus C.L. Koch, 1847, *System der Myriapoden*, 47: 114. Type species: *E. rufolineatus* C.L. Koch, 1847, by subsequent designation of Cook, 1895. Hoffman & Lohmander, 1964, *Mitt. Hamb. Zool. Mus. Inst.*, 62: 127 (revision). Hoffman, 1973, *Mitt. Hamb. Zool. Mus. Inst.*, 69: 95 (revision). Glaubrecht & Spelda, 1993, *Mitt. Hamb. Zool. Mus. Inst.*, 90: 287 (review). Stoev & Enghoff, 2004, *Zootaxa*, 419: 7 (key).

Megastrephon Cook, 1895, *Am. Natur.*, 29: 1019. Type species: *Platops xanthina* Newport, 1844, by original designation. Synonymy proposed by Hoffman & Lohmander (1964).

Brölemannia Verhoeff, 1896, *Arch. Naturgesch.*, 62 (1): 21. Type species: *Lysiopetalum byzantinum* Verhoeff, 1896, by monotypy. Synonymy proposed by Hoffman & Lohmander (1964).

Syriopetalum Verhoeff, 1923, *Arch. Naturgesch.*, 89A (4): 132. Type species: *Broelemannia rufolineatum*: Verhoeff, 1923 (= *Lysiopetalum rufolineatum* sensu Porat, 1893, nec Koch), by monotypy. Synonymy proposed by Hoffman & Lohmander (1964).

Bulgaropetalum Verhoeff, 1926, *Mitt. Bulg. Ent. Ges. Sofia*, 3: 195. Type species: *Brölemannia bulgaricum* Verhoeff, 1926, by monotypy. Synonymy proposed by Hoffman & Lohmander (1964).

Oromannia Verhoeff, 1940, *Rev. Fac. Sci. Univ. Istanbul*, 5: 18. Type species: *Brölemannia bilselii*, by monotypy (cf. Jeekel 1971). Synonymy proposed by Hoffman & Lohmander (1964).

Linomeritia Verhoeff, 1940, *Rev. Fac. Sci. Univ. Istanbul*, 5: 19. Type species: *Lysiopetalum kervillei* Attems, 1911, by monotypy. Synonymy proposed by Hoffman & Lohmander (1964).

Eighteen species, from Peloponnese in Greece in the West to Syria, Lebanon and Palestine/ Israel in the East. Uncertain records from Armenia/ Iran. Introduced in Bulgaria.

***Eurygyrus africanus* (Attems, 1927)**

Brölemannia africana Attems, 1926, *Voyage zool. en Syrie*, 1: 253 [nomen nudum]. Attems, 1927, *Arch. Naturgesch.*, 92 (1926), A, (1–2): 108, figs 112–113. HT: M* (NHMW) from “Sennaar” (mislabelled), actually Taurus (Toros) Mts in South Turkey (see Stagl & Stoev, 2005). Verhoeff, 1943, *Zool. Anz.*, 143: 238.

Brölemannia (Oromannia) africana: Verhoeff, 1940, *Rev. Fac. Sci. Univ. Istanbul*, 5: 18.

Eurygyrus africanus: Hoffman & Lohmander, 1964, *Mitt. Hamb. Zool. Mus. Inst.*, 62: 146, figs 16, 41–43. Hoffman, 1973, *Mitt. Hamb. Zool. Mus. Inst.*, 69: 103, fig. 20. Glaubrecht & Spelda, 1993, *Mitt. Hamb. Zool. Mus. Inst.*, 90: 301. Stoev & Enghoff, 2004, *Zootaxa*, 419: 8. Stagl & Stoev, 2005, *Katal. Wiss. Samml. Naturhist. Mus. Wien*, 19, Heft 2: 5. Enghoff, 2006, *Steenstrupia*, 29 (2): 187.

Range: southern Turkey.

***Eurygyrus asiaeminoris* (Verhoeff, 1898)**

Lysiopetalum (Broelemannia) byzantinum, Asiae minoris Verhoeff, 1898, *Verh. k.k. Zool. Bot. Ges. Wien*, 48: 303, Taf. V, fig. 20, (the subspecific name is hyphenated in the figure caption on page 305). Male ST (ZMB) from between Mersin and Tarsus, Cilicia, Turkey.

Brölemannia byzantina asiae minoris: Attems, 1927, *Arch. Naturgesch.*, 92 (1926), A, (1–2): 112–113, figs 120–121.

Brölemannia byzantinum asiaeminoris: Verhoeff, 1940, *Rev. Fac. Sci. Univ. Istanbul*, 5: 46. Verhoeff, 1941, *Rev. Fac. Sci. Univ. Istanbul*, 6: 304. Kosswig, 1943, *Compte Rendu Annu. Arch. Soc. Turque Sci. Phys. Natur.*, 8: 78.

Eurygyrus asiaeminoris: Hoffman & Lohmander, 1964, *Mitt. Hamb. Zool. Mus. Inst.*, 62: 137. Hoffman, 1973, *Mitt.*

Hamb. Zool. Mus. Inst., 69: 105, fig. 22. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 301. Stoev & Enghoff, 2004, Zootaxa, 419: 7. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19, Heft 2: 6, 22. Enghoff, 2006, Steenstrupia, 29 (2): 187.

Lysiopetalum (Broelemannia) byzantinum asiaeminoris: Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 327.

Range: known only from the region of Cilicia, southeastern Turkey.

Remark: Attems' record (1927) from "Senaar" is most likely due to mislabelling (see Stagl & Stoev 2005).

***Eurygyrus bilselii* (Verhoeff, 1940)**

Brölemannia (Oromannia) bilselii Verhoeff, 1940, Rev. Fac. Sci. Univ. Istanbul, 5: 19, figs 17–19. ST: M, F (ZMB) from cave near Burdur. Verhoeff, 1943, Zool. Anz., 143: 237. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 329.

Brölemannia bilselii: Verhoeff, 1941, Rev. Fac. Sci. Univ. Istanbul, 6: 304.

Brölemannia (Oromannia) kosswigii Verhoeff, 1943, Zool. Anz., 143: 237, figs 31–33. ST: 2 MM, 1 F (whereabouts unknown) from Hacı Akif adası Islet in Beyeshir Göl, Turkey. Synonymy proposed by Hoffman & Lohmander (1964).

Brölemannia (Oromannia) bilseli [sic!]: Kosswig, 1943, Comptes Rendus Ann. Arch. Soc. Turque Sci. Phys. Natur., 8: 78.

Eurygyrus bicolor Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 142, fig. 20. Female HT (ZMUH) from Korikos, Turkey. Synonymy proposed by Hoffman (1973). Rack, 1974, Mitt. Hamb. Zool. Mus. Inst., 70: 113.

Eurygyrus bilselii: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 144, figs 19, 37–39. Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 98. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 301. Stoev & Enghoff, 2004, Zootaxa, 419: 7. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19, Heft 2: 22, photo on front cover. Enghoff, 2006, Steenstrupia, 29 (2): 187.

Range: southcentral Turkey.

***Eurygyrus ciliciensis* (Verhoeff, 1898)**

Lysiopetalum (Broelemannia) byzantinum, ciliciense Verhoeff, 1898, Verh. k.k. Zool. Bot. Ges. Wien, 48: 303. Female HT (SMF) from between Mersin and Tarsus, Cilicia, Turkey.

Brölemannia byzantinum ciliciense: Verhoeff, 1940, Rev. Fac. Sci. Univ. Istanbul, 5: 46. Verhoeff, 1941, Rev. Fac. Sci. Univ. Istanbul, 6: 304. Kosswig, 1943, Comptes Rendus Ann. Arch. Soc. Turque Sci. Phys. Natur., 8: 78.

Eurygyrus ciliciensis: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 140, figs 17, 30–33. Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 102. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 301. Stoev & Enghoff, 2004, Zootaxa, 419: 7. Enghoff, 2006, Steenstrupia, 29 (2): 187.

Range: known from the region of Cilicia in South Turkey.

***Eurygyrus euboicus* (Verhoeff, 1901)**

Lysiopetalum (probably *Brölemannia*) [sic!] *euboicum* Verhoeff, 1901, Arch. Naturgesch., 67 (1): 257 (see also p. 247). Female HT* (ZMB) from Stura, southern part of Euboea, Greece. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 335.

Eurygyrus euboicum (as *L. euboicum*): Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 131.

Eurygyrus euboicus: Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 96. Strasser, 1974, Rev. Suisse Zool., 81 (1): 224, 290. Strasser, 1976, Rev. Suisse Zool., 83 (3): 634. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 300, 301 (misspelled *eupoicus* on p. 301). Stoev & Enghoff, 2004, Zootaxa, 419: 5, figs 7–8. Stoev, 2007, Zootaxa, 1447, 63–68, figs 1–6.

Range: known only from two localities on Euboea Island, Greece.

***Eurygyrus lohmanderi* Hoffman, 1973**

Eurygyrus lohmanderi Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 102, figs 17–19. Male HT (ZMUH) from Kemaliye in vilayet Erzincan, ca. 38.16 N, 39.28 E, Turkey. Rack, 1974, Mitt. Hamb. Zool. Mus. Inst., 70: 113. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 301. Stoev & Enghoff, 2004, Zootaxa, 419: 8. Enghoff, 2006, Steenstrupia, 29 (2): 187.

Range: known only from the type locality.

***Eurygyrus nicarius* (Verhoeff, 1901)**

Lysiopetalum (probably *Brölemannia*) [sic!] *nicarium* Verhoeff, 1901, Arch. Naturgesch., 67 (1): 256 (see also p. 247). Female HT* (ZMB) from Nicaria Island, Greece. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 343.

Eurygyrus nicarium (as *L. nicarium*): Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 131.

Eurygyrus nicarius: Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 96. Strasser, 1974, Rev. Suisse Zool., 81 (1): 224, 290. Strasser, 1976, Rev. Suisse Zool., 83 (3): 634. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90:

300, 301. Stoev & Enghoff, 2004, *Zootaxa*, 419: 6, figs 9–10.

Range: known only from the type locality.

***Eurygyrus nisirius* Spelda, 1993**

Eurygyrus nisirius Spelda in Glaubrecht & Spelda, 1993, *Mitt. Hamb. Zool. Mus. Inst.*, 90: 290, figs 8–19, 42–48. Male HT (ZMUH) from Mandraki, Nisiros Island, Greece. Stoev & Enghoff, 2004, *Zootaxa*, 419: 8.

Range: known only from the type locality.

Remark: This species is closely related to *E. rhodius*, and further investigations may show that both are identical.

***Eurygyrus ochraceus* C.L. Koch, 1847**

Eurygyrus ochraceus C.L. Koch, 1847, *System der Myriapoden*: 115. Type (whereabouts unknown) from the surroundings of Sardis, Turkey. C.L. Koch, 1863, *Die Myriapoden*, 1: 127, Taf. 57, fig. 117. Hoffman & Lohmander, 1964, *Mitt. Hamb. Zool. Mus. Inst.*, 62: 132. Hoffman, 1973, *Mitt. Hamb. Zool. Mus. Inst.*, 69: 96, figs 11–13. Glaubrecht & Spelda, 1993, *Mitt. Hamb. Zool. Mus. Inst.*, 90: 301. Stoev & Beron, 2001, *Arthr. Sel.*, 9 (2): 97 (see *B. bulgaricum*). Stoev & Enghoff, 2004, *Zootaxa*, 419: 7. Enghoff, 2006, *Steenstrupia*, 29 (2): 187.

Brölemannia (Bulgaropetalum) bulgaricum Verhoeff, 1926, *Zool. Anz.*, 68 (1/2): 62 [nomen nudum]. Verhoeff, 1926, *Mitt. Bulg. Ent. Ges. Sofia*, 3: 197, Taf. VI, figs 1–3. F LT (SOFM) from Euxinograd near Varna, Bulgaria. Synonymy proposed by Hoffman (1973). Verhoeff, 1928, *Mitt. Königl. Naturw. Inst. Sofia*, 1: 43, figs 12–13. Verhoeff, 1937, *Mitt. Königl. Naturw. Inst. Sofia*, 10: 116.

Brölemania [sic!] (*Bulgaropetalum*) *bulgaricum*: Lang, 1935, *Mitt. Königl. Naturw. Inst. Sofia*, 8: 178.

Eurygyrus bulgaricus: Hoffman & Lohmander, 1964, *Mitt. Hamb. Zool. Mus. Inst.*, 62: 139.

Range: western Turkey, introduced also in Euxinograd, East Bulgaria (Stoev & Enghoff 2004) and Crimea (S. Golovatch, pers. comm.).

Remark: The record of Lang (1935) from Belassitsa Mts, SW Bulgaria, is most likely due to misidentification.

***Eurygyrus oertzeni* (Verhoeff, 1901)**

Lysiopetalum (probably *Brölemannia*) [sic!] *Oertzeni* Verhoeff, 1901, *Arch. Naturgesch.*, 67 (1): 256, see also p. 247. ST* (ZMB): 2 FF from Karpathos, two juv. MM from Kassos, Greece.

Eurygyrus oertzeni: Strasser, 1967, *Senckenb. Biol.*, 48 (4): 274. Strasser, 1970, *Senckenb. Biol.*, 51 (3–4): 246, 251. Hoffman, 1973, *Mitt. Hamb. Zool. Mus. Inst.*, 69: 96. Strasser, 1974, *Rev. Suisse Zool.*, 81 (1): 224, 289. Strasser, 1976, *Rev. Suisse Zool.*, 83 (3): 634. Glaubrecht & Spelda, 1993, *Mitt. Hamb. Zool. Mus. Inst.*, 90: 290, figs 20–41, 48. Stoev & Enghoff, 2004, *Zootaxa*, 419: 7.

Lysiopetalum oertzeni: Moritz & Fischer, 1974, *Mitt. Zool. Mus. Berlin*, 50 (2): 344.

Range: the Greek islands of Karpathos, Saria and Kasos.

***Eurygyrus pamphylinus* (Attems, 1927)**

Brölemannia pamphylina Attems, 1927, *Arch. Naturgesch.*, 92 (1926), A, (1–2): 111, figs 114–117. ST: 2 MM*, 1 juv.* (NHMW) from Aspendos, Pamphylina, Turkey.

Eurygyrus pamphylinus: Hoffman & Lohmander, 1964, *Mitt. Hamb. Zool. Mus. Inst.*, 62: 138, figs 18, 27–29. Hoffman, 1973, *Mitt. Hamb. Zool. Mus. Inst.*, 69: 107, fig. 23. Glaubrecht & Spelda, 1993, *Mitt. Hamb. Zool. Mus. Inst.*, 90: 301. Stoev & Enghoff, 2004, *Zootaxa*, 419: 7. Stagl & Stoev, 2005, *Katal. Wiss. Samml. Naturhist. Mus. Wien*, 19, Heft 2: 19. Enghoff, 2006, *Steenstrupia*, 29 (2): 187.

Range: southern Turkey.

***Eurygyrus peloponnesius* Stoev & Enghoff, 2004**

Eurygyrus peloponnesius Stoev & Enghoff, 2004, *Zootaxa*, 419: 2, figs 1–6. Male HT* (ZMUC) from Taygetos Mts, Peloponnese, Greece.

Range: known only from the type locality.

***Eurygyrus perphrygia* Hoffman, 1973**

Eurygyrus perphrygia Hoffman, 1973, *Mitt. Hamb. Zool. Mus. Inst.*, 69: 100, figs 14–16. Male HT (ZMB) from a site 7 km N of Usak, Turkey. Rack, 1974, *Mitt. Hamb. Zool. Mus. Inst.*, 70: 113. Glaubrecht & Spelda, 1993, *Mitt. Hamb. Zool. Mus. Inst.*, 90: 301. Stoev & Enghoff, 2004, *Zootaxa*, 419: 7. Stagl & Stoev, 2005, *Katal. Wiss. Samml. Naturhist. Mus. Wien*, 19, Heft 2: 22. Enghoff, 2006, *Steenstrupia*, 29 (2): 188.

Range: southwest Turkey.

***Eurygyrus phoeniceus* (Verhoeff, 1900)**

Lysiopetalum (Apfelbeckia) byzantinum phoeniceum Verhoeff, 1900, *Zool. Jahrb. {Syst.}*, 13: 59, Taf. 8, figs 28–29. Male ST (ZMB) from Caifa, Palestine. Moritz & Fischer, 1974, *Mitt. Zool. Mus. Berlin*, 50 (2): 345.

Lysiopetalum (Brölemannia) Kervillei Attems, 1911, Bull. Soc. Amis Sci. Nat. Rouen, 5: 63. ST: 4 MM*, 1 F* (NHMW), 3 MM and 5 FF (MNHN) from Berze, Syria. Synonymy proposed by Hoffman & Lohmander (1964).

Broelemannia phoeniceum: Verhoeff, 1923, Arch. Naturgesch., 89A (4): 147, figs A–C.

Brölemannia Kervillei: Attems, 1926, Voyage zool. en Syrie, 1: 252, pl. 30, figs 27–31.

Brölemannia phoeniceum: Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1514, fig. 915.

Brölemannia phoenicea orientalis Lohmander, 1932, K. Vet. O. Vitterh. Samh. Handl., 3 (2): 5, figs 2–4. Male HT (GNM?/ NHRS?) from “Persien: Tawane (Tawanah in Laristan?)”. Synonymy proposed by Hoffman (1973).

Brölemannia kervillei: Verhoeff, 1940, Rev. Fac. Sci. Univ. Istanbul, 5: 19.

Brölemannia kerwilei [sic!]: Lang, 1964, Vest. Českosl. Spol. Zool., 28 (3): 240.

Broelemannia phoenicea orientalis Brol. [sic!]: Attems, 1951, S.B. Kaiser. Akad. Wiss. Wien, 160: 391.

Eurygyrus phoeniceus phoeniceus: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 148, figs 22, 44–46. Tabacaru, 1995, Soil Fauna of Israel, 1: 25.

Eurygyrus phoeniceus orientalis: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 149.

Eurygyrus phoeniceus: Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 96. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 300, 301. Stoev & Enghoff, 2004, Zootaxa, 419: 7. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19, Heft 2: 15, 22. Enghoff & Moravvej, 2005, Zool. Middle East, 35: 63. Enghoff, 2006, Steenstrupia, 29 (2): 194.

Range: Syria, Palestine, Israel, Lebanon, Turkey?

Remark: The status of the subspecies *orientalis* is uncertain. Hoffman & Lohmander (1964) stated that the unique specimen from Iran may have been mislabelled. Besides in Iran, there is a village with the same name in Israel (Google). The records of Lang from Chikefté and Derumer caves in Turkey are doubtful and need confirmation (cf. Enghoff 2006).

***Eurygyrus rhodius* Spelda, 1993**

Eurygyrus rhodius Spelda in Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 289, figs 1–7, 48. Male HT (ZMUH) from Kamiros Skala, Rhodes, Greece. Stoev & Enghoff, 2004, Zootaxa, 419: 8.

Range: known only from the type locality.

***Eurygyrus rufolineatus* C.L. Koch, 1847**

Eurygyrus rufolineatus C.L. Koch, 1847, System der Myriapoden: 115. Type (whereabouts unknown) from “near Constantinopel” (= Istanbul), Turkey. C.L. Koch, 1863, Die Myriapoden, 1: 12, Taf. 6, fig. 12. Cook, 1895, Am. Natur., 29: 1019. Jurinich, 1904, A Collection of Folklore, Science and Literary Works, 20: 44. Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 133, figs 21, 23–26. Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 104, fig. 21. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 301. Stoev & Enghoff, 2004, Zootaxa, 419: 7. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 8 (see *byzantinum*). Enghoff, 2006, Steenstrupia, 29 (2): 188.

Lysiopetalum schistazeum Karsch, 1880, Mitt. Münchner Ent. Ver., 4, 143. Female HT* (ZMB) from Asia Minor. Synonymy proposed by Hoffman (1973). Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 347.

Eurygyrus rufolinatus [sic!]: Cook, 1895, Am. Natur., 29: 1019.

Lysiopetalum (Brölemannia) byzantinum Verhoeff, 1896, Arch. Naturgesch., 62, 1: 14, Taf. II, figs 14–16. ST: 2 FF, microscope slides of gonopods (ZMB) from Skutari, Turkey; F*, juv.* (NHMW) from Istanbul, Scutari (= Üsküdar), 1 F (ZMUH) from “Kleinasien”. Synonymy proposed by Hoffman & Lohmander (1964).

Lysiopetalum (Broelemannia) byzantinum: Verhoeff, 1898, Verh. Zool.-Bot. Ges. Wien, 48: 292. Attems, 1911, Bull. Soc. Amis Sci. Nat. Rouen, 5, 46: 63. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 332. Rack, 1974, Mitt. Hamb. Zool. Mus. Inst., 70: 113.

Brölemannia byzantina: Attems, 1926, Voyage zool. en Syrie, 1: 252. Attems, 1927, Arch. Naturgesch., 92 (1–2): 111.

Brölemannia byzantina Wernerii Attems, 1927, Arch. Naturgesch., 92 (1–2): 112, figs 118–119. ST: 2 MM*, 12 FF* (NHMW) from “Kleinasien” (see Stagl & Stoev, 2005 for further details). Synonymy proposed by Hoffman & Lohmander (1964).

Brölemannia byzantinum: Verhoeff, 1940, Rev. Fac. Sci. Univ. Istanbul, 5: 46. Verhoeff, 1941, Rev. Fac. Sci. Univ. Istanbul, 6: 304. Kosswig, 1943, Compte Rendu Annu. Arch. Soc. Turque Sci. Phys. Natur., 8: 78.

Eurygyrus rufolineatus wernerii: Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19, Heft 2: 20.

Range: northwestern Turkey, excluding European part.

Remarks: Jurinich (1904) reported *E. rufolineatus* from Bulgaria without specifying the exact locality. The status of *E. rufolineatus wernerii* is uncertain (for more details see Hoffman & Lohmander 1964, Stagl & Stoev 2005).

***Eurygyrus turcicus* (Verhoeff, 1898)**

Lysiopetalum (Broelemannia) turcicum Verhoeff, 1898, Verh. Zool.-Bot. Ges. Wien, 48: 302, Taf. V, fig. 21. Male HT (ZMB) from between Mersin and Tarsus, Cilicia, Turkey. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 350.

Broelemannia turcica: Verhoeff, 1923, Arch. Naturgesch., 89A (4): 132, fig. 16.
Brölemannia turcica: Attems, 1926, Voyage zool. en Syrie, 1: 252. Attems, 1927, Arch. Naturgesch., 92 (1–2): 108. Lang, 1964, Vest. Českosl. Spol. Zool., 28 (3): 240.
Brölemannia turcicum: Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1505, fig. 903. Verhoeff, 1940, Rev. Fac. Sci. Univ. Istanbul, 5: 46. Verhoeff, 1941, Rev. Fac. Sci. Univ. Istanbul, 6: 304. Kosswig, 1943, Compte Rendu Annu. Arch. Soc. Turque Sci. Phys. Natur., 8: 78.
Eurygyrus turcicus: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 145, fig. 40. Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 96. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 301. Stoev & Enghoff, 2004, Zootaxa, 419: 8. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19, Heft 2: 22. Enghoff, 2006, Steenstrupia, 29 (2): 188.
Range: known only from the region of Cilicia, southeastern Turkey.
Remark: The records of Lang (1964) from Dévé maghara Cave and its surroundings should be considered as dubious (cf. Enghoff 2006).

***Eurygyrus xanthinus* (Newport, 1844)**

Platops Xanthina Newport, 1844, Ann. Mag. Nat. Hist., Ser. 1, 13: 267. Type (whereabouts unknown) from the valley of Xanthus, Asia Minor.
Lysioptetulum Xanthinum: Gervais, 1847, Hist. Nat. Ins. Apt., 4: 133.
Megastrephon xanthinum: Cook, 1895, Am. Natur., 29: 1019.
Eurygyrus xanthinus: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 142, figs 34–36, 47. Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 96. Glaubrecht & Spelda, 1993, Mitt. Hamb. Zool. Mus. Inst., 90: 301. Stoev & Enghoff, 2004, Zootaxa, 419: 7. Enghoff, 2006, Steenstrupia, 29 (2): 188.
Range: southern Turkey.

Tribe Apfelbeckiini Verhoeff, 1900

Apfelbeckiini Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 50. Stoev & Enghoff, 2008, Steenstrupia, in press.
Two genera – *Himatiopetalum* and *Apfelbeckia*, western part of the Balkan Peninsula.

Genus *Apfelbeckia* Verhoeff, 1896

Apfelbeckia Verhoeff, 1896, Zool. Anz., 19: 475. Type species: *Lysioptetulum lendenfeldii* Verhoeff, 1896, by monotypy. Strasser, 1962, Senckenb. Biol., 43 (6): 453, figs 22–23 (review).
Antropetalum Attems, 1926, Handb. Zool., 4: 180, 222. Type species: *A. brazzanum* Attems, 1927, by subsequent designation. Synonymy proposed by Stoev & Enghoff (2008).
Haplobeckia Verhoeff, 1941, Zool. Anz., 133: 181. Type species: *Apfelbeckia silvivaga* Verhoeff, 1901, by monotypy. Synonymy proposed by Hoffman (1973).
Karlabsolonia Attems, 1951, Anz. Math.-naturw. Klasse Österreich. Akad. Wissensch. Wien, 88: 256. Type species: *K. mirabilis* Attems, 1951, by monotypy. Synonymy proposed by Strasser (1971a).
Three species, Western Balkan Peninsula.

***Apfelbeckia brazzana* (Attems, 1927)**

Antropetalum brazzanum Attems, 1927, Arch. Naturgesch., 92 (1926), A, (1–2): 114, figs 122–124. Male LT* (NHMW) from Cave II near Milna, Brach (= Brazza) Island, Croatia. Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 634. Attems, 1929, Zool. Jahrb. {Syst.}, 56 (1928/29): 291, 322. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 238. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 7, fig. 4.
Apfelbeckia brazzana: Stoev & Enghoff, 2008, Steenstrupia, in press.
Range: known only from caves on the Brach and Hvar islands, Croatia.

***Apfelbeckia insculpta* (L. Koch, 1867)**

Lysioptetulum insculptum L. Koch, 1867, Verh. k.k. Zool. Bot. Ges. Wien, 17 (2): 893. Female ST* (NHMW), M and F ST (BMNH) from “Montenegro, Dalmatien”. Latzel, 1884, Myriopoden Österr.-Ungar. Mon., 2: 235. Gasperini, 1892, Prilog k dalmatinskoj fauni: 8. Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 14.
Lysioptetulum cognatum Latzel, 1884, Die Myriopoden der Österreichisch-Ungarischen Monarchie, 2: 234. Holotype? and non-type material: 1 slide with leg-pairs 7–9; 1 adult intact F and 1 F broken into pieces, 1 dissected M, gonopods in separate microtube (NHMW) from Ragusa (now Dubrovnik), Croatia (see Stagl & Stoev (2005) for details). Synonymy proposed by Stoev & Enghoff (2008). Latzel, 1888, Verh. k.k. Zool. Bot. Ges. Wien, 38: 92. Gasperini, 1892, Prilog k dalmatinskoj fauni, 8. Karlinski, 1894, Sep. Wiss. Mitt. Bosnien Hercegovina, 2: 691. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2):

8. Stagl, 2006, Norw. J. Ent., 53: 227.
- Lysioptalum (Apfelbeckia) Lendenfeldii* Verhoeff, 1896, Zool. Anz., 19: 466, figs 1–4. ST: M* (ZMB), 2 MM* (NHMW), M* & F* (ZSM) from Bilek Cave in Bosnia and Herzegovina. Synonymy proposed by Stoev & Enghoff (2008). Verhoeff, 1897, Arch. Naturgesch., 63 (1): 154. Verhoeff, 1899, Wiss. Mitt. Bosnien Hercegovina, 6: 761. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71.
- Apfelbeckia silvivaga* Verhoeff, 1901, Zool. Anz., 24: 277. Male HT*: slide of gonopod (ZMB), body (ZSM) from Jablanica, Bosnia and Herzegovina. Synonymy proposed by Stoev & Enghoff (2008). Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322. Verhoeff, 1943, Z. Karst- und Höhlenkunde: 166. Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303. Tomić-Jovanović, 1964, Bull. Mus. Hist. Natur., Belgrade, B, 19: 193, 194. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 348.
- Apfelbeckia Lendenfeldii*: Verhoeff 1901, Zool. Anz., 24: 275, figs 3, 6.
- Apfelbeckia albosignata* Verhoeff, 1901, Zool. Anz., 24: 276, figs 2, 5. Male ST* (ZSM) from “Schuma, Wolfshöhle”, Bosnia and Herzegovina. Synonymy proposed by Stoev & Enghoff (2008). Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322. Verhoeff, 1943, Z. Karst- und Höhlenkunde: 167. Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369, 375, Figs 158–160. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 237. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Makarov et al., 2004, Inst. Zool. Monogr., 9: 243.
- Apfelbeckia Enderleinii* Verhoeff, 1901, Zool. Anz., 24: 275, figs 1, 4. ST: ad. F, subad. F, 6 juv. (ZMB), M, F, juv. (SMF, type status uncertain) from “Grabovica Höhle, Radoboljathal bei Mostar, Buchenwald am Prenj”, Bosnia and Herzegovina. Synonymy proposed by Stoev & Enghoff (2008).
- Apfelbeckia wohlberedti* Verhoeff, 1909, Wiss. Mitt. Bosnien Hercegovina, 11: 717, 720, figs 1–6. ST: subad. M* (NHMW), F* (ZMB), M?* (ZSM) from Taubenhöhle (Tauben Cave) near Reči, Albania. Synonymy proposed by Stoev & Enghoff (2008). Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322. Verhoeff, 1943, Z. Karst- und Höhlenkunde: 168. Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 352. Strasser, 1976, Rev. Suisse Zool., 83 (3): 642. Mauriès et al., 1997, Zoosystema, 19 (2–3): 261, 289, Fig. 3C–E. Makarov et al., 2004, Inst. Zool. Monogr., 9: 243. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 20.
- Apfelbeckia silvivagum* [sic!]: Verhoeff, 1909, Wiss. Mitt. Bosnien Hercegovina, 11: 720.
- Apfelbeckia enderleini* [sic!]: Verhoeff, 1909, Wiss. Mitt. Bosnien Hercegovina, 11: 720. Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322 (in the table, p. 291, spelled *enderleinii*). Verhoeff, 1943, Z. Karst- und Höhlenkunde: 167. Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369, 373, figs 156–157. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 237.
- Apfelbeckia albosignatum* [sic!]: Verhoeff, 1909, Wiss. Mitt. Bosnien Hercegovina, 11: 720.
- Apfelbeckia lendenfeldi* [sic!] var. *abbreviatum* Verhoeff, 1909, Wiss. Mitt. Bosnien Hercegovina, 11: 720. Material from Jablanica, Bosnia and Herzegovina. Synonymy proposed by Mršić (1994).
- Apfelbeckia lendenfeldi* [sic!] var. *herzegowinense* (spelled *herzegowinensis* in figure caption) Verhoeff, 1909, Wiss. Mitt. Bosnien Hercegovina, 11: 720. fig. 7. Material (ZSM) from unspecified site in “Nordherzegowina”. Synonymy proposed by Mršić (1994). Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 340.
- Apfelbeckia lendenfeldi* [sic!]: Verhoeff, 1909, Wiss. Mitt. Bosnien Hercegovina, 11: 721. Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322. Verhoeff, 1943, Z. Karst- und Höhlenkunde: 168, 170, figs 1–3. Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369, 370, fig. 146. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 237. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289.
- Apfelbeckia hessei* Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 634, Taf. VI, figs 35–40. ST: 2 MM* (ZSM), 1 exempl. (SMF) from “Ruinen von Salona bei Split”, Croatia. Synonymy proposed by Stoev & Enghoff (2008). Verhoeff, 1932, Bronn’s Kl. Ord. Tier-Reichs, 5: 1507, figs 905–906. Lang, 1939, Mém. Soc. Zool. Tchécosl. Prague, 6–7: 291–293. Verhoeff, 1943, Z. Karst- und Höhlenkunde: 167, figs 8–9. Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 237. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289.
- Apfelbeckia lendenfeldii* var. *flavipes* Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322, 352. Material (ST): M* (NHMW) from a cave in Sildi Mountain near Shkodër (Scutari), Albania. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 12.
- Apfelbeckia lendenfeldi* [sic!] var. *abbreviata* [sic!]: Attems, 1929, Zool. Jahrb. {Syst.}, 56: 322.
- Apfelbekia* [sic!] *lendenfeldi*: Lang, 1935, Vest. Českosl. Spol. Zool., 2: 83–86.
- Apfelbeckia albanica* Verhoeff, 1941, Zool. Anz., 133: 181, figs 1–6. Male HT* (ZSM) from Cukale Cave near Tirana, Albania. Synonymy proposed by Stoev & Enghoff (2008). Verhoeff, 1943, Z. Karst- und Höhlenkunde: 168. Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369. Strasser, 1976, Rev. Suisse Zool., 83 (3): 642. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289.
- Apfelbeckia subterranea* Verhoeff, 1943, Z. Karst- und Höhlenkunde: 167, 169, figs 10–12. ST: M* (ZSM) from “Sandšhak Novibazar, Popova-Höhle bei Mileševo, 1040 m”, Serbia. Synonymy proposed by Stoev & Enghoff (2008). Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31.

Makarov et al., 2004, Inst. Zool. Monogr., 9: 243.

- Apfelbeckia lendenfeldii caligulifer* Verhoeff, 1943, Z. Karst- und Höhlenkunde: 167, 170, figs 4–5. Male HT* (ZSM) from “Planjska-Höhle bei Lucovice unweit Bilek”, Bosnia and Herzegovina. Synonymy proposed by Strasser (1971a).
- Apfelbeckia lendenfeldii hebes* Verhoeff, 1943, Z. Karst- und Höhlenkunde: 167, 170, figs 6–7. Male HT?* (ZSM) from “Süd-Herzegovina, Grnkovača-Höhle, ¾ Stunde entfernt von der Plavakirche b. Bilek”. Synonymy proposed by Strasser (1971a).
- Apfelbeckia Hessei* [sic!] var. *Boldorii* Manfredi, 1945, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 84: 6, figs 2–3. Material (MSNM) Spela met Potzi, Kruja; Mali i Krujes; pr. Spela met Potzi, Kruja, Albania. Manfredi, 1976, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 117 (3–4): 224.
- Apfelbeckia duplocalca* Attems, 1951, Anz. Math.-naturw. Klasse Österreich. Akad. Wissensch. Wien, 88: 256. ST*: gonopods of 2 MM, adult F broken into two pieces (NHMW) from Gorodnica Cave, Bosnia and Herzegovina. Synonymy proposed by Stoev & Enghoff (2008). Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369, figs 143–145. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 11.
- Apfelbeckia lendenfeldii* [sic!] *miraculosa* Attems, 1951, Anz. Math.-naturw. Klasse Österreich. Akad. Wissensch. Wien, 88: 256. ST: numerous MM* and FF* (NHMW) from Visocica and Mrcine in Bosnia and Herzegovina, and a cave at Dvršnik in Croatia. Synonymy proposed by Stoev & Enghoff (2008). Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 369, 371, figs 147–155. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 31. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Guéorguiev et al., 2000, Arch. Biol. Sci., 52 (4): 229. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 18.
- Karlabsolonia mirabilis* Attems, 1951, Anz. Math.-naturw. Klasse Österreich. Akad. Wissensch. Wien, 88: 257. ST*: gonopods in microtube; two slides of leg-pairs 1–4, 7–8, one female cyphopod and “Gonopodentarsus” (NHMW) from “Jama pod Malim Kraljevcem”, Croatia. Synonymy proposed by Stoev & Enghoff (2008). Attems, 1959, Ann. Naturhist. Mus. Wien, 63: 303, 376, figs 161–168.
- Apfelbeckia Lendenfeldii* [sic!]: Tomić-Jovanović, 1964, Bull. Mus. Hist. Natur., Belgrade, B, 19: 193, 194.
- Apfelbeckia mirabilis*: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 9, 31. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 238. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 18.
- Apfelbeckia enderleinii*: Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 335.
- Lysiopetalum lendenfeldii*: Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 339.
- Apfelbeckia lendenfeldii flavipes* [rank of subspecies, sic!]: Strasser, 1976, Rev. Suisse Zool., 83 (3): 642. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289.
- Apfelbeckia hessei boldorii* [sic!]: Strasser, 1976, Rev. Suisse Zool., 83 (3): 642.
- Apfelbeckia lendenfeldii*: Makarov et al., 2004, Inst. Zool. Monogr., 9: 243. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 16.
- Apfelbeckia insculpta*: Stoev & Enghoff, 2008, Steenstrupia, in press.
- Range: North and Central Albania, Montenegro, Bosnia and Herzegovina, Serbia, Croatia (southern parts of Dalmatia and island of Mljet). Lang’s (1939) records of *Apfelbeckia hessei* from the Croatian islands of Brach, Hvar, Korčula and Vis are dubious (cf. Stoev & Enghoff 2008).

***Apfelbeckia synthesys* Stoev & Enghoff, 2008**

Apfelbeckia synthesys Stoev & Enghoff, 2008, Steenstrupia, in press. Male HT* (ZMUC) from Olympus Mt., Greece.
Range: known only from the type locality.

Genus *Himatiopetalum* Verhoeff, 1900

Himatiopetalum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 50. Type species: *Lysiopetalum ictericum* L. Koch, 1867, by monotypy.
One species.

***Himatiopetalum ictericum* (L. Koch, 1867)**

Lysiopetalum ictericum L. Koch, 1867, Verh. k.k. Zool. Bot. Ges. Wien, 17 (2): 895. Male LT, 1 M, 2 FF, 1 exemplar of unknown sex PLT (BMNH) from Corfu.

Himatiopetalum ictericum: Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 50, 54, Taf. 7, figs 1–7. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 190. Attems, 1926, Handb. Zool., 4 (1): 178, figs 215–216. Verhoeff, 1932, Bronn’s Kl. Ord. Tier-Reichs, 5: 1510, fig. 907, 1512, fig. 910. Strasser, 1970, Senckenb. Biol., 51 (3/4): 241. Strasser, 1974, Rev. Suisse Zool., 81 (1): 224, 289. Strasser, 1976, Rev. Suisse Zool., 83 (3): 634. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Stoev & Enghoff, 2008, Steenstrupia, in press.

Range: Greek island of Corfu, south Albania?

Tribe Prolysiopetalini Verhoeff, 1909

Prolysiopetalini Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 215.

One genus (with subgenus *Heterocraspedum*), southern parts of the Apenninian and Balkan peninsulas and Aegean coast of Asia Minor.

Genus Prolysiopetalum Verhoeff, 1909

Prolysiopetalum Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 215.

Subgenus Prolysiopetalum Verhoeff, 1909

Prolysiopetalum Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 215. Type species: *P. sorrentinum* Verhoeff, 1909, by original designation.

One species, the Apennines.

***Prolysiopetalum apulicum* (Verhoeff, 1905)**

Lysiopetalum carinatum sensu Berlese, 1883 Acari, Myriopoda et Scorpiones hucusque in Italia reperta, fasc. 2: pl. 5, figs 1–7.

Lysiopetalum apulicum Verhoeff, 1905, Zool. Anz., 29 (16): 501. Type (whereabouts unknown) from Apulia, Italy.

Prolysiopetalum sorrentinum Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 215. F ST (ZMB) from the Sorrentinian Peninsula, Italy. Synonymy proposed by Hoffman (1973). Verhoeff, 1910, Nova Acta, Acad. Caes. Leopold.-Carol., 92 (2): 385, Taf. VIII, figs 149–150, 156. Verhoeff, 1932, Zool. Jahrb. {Syst.}, 63: 320. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 349. Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204. Minelli, 1985, Mem. Mus. Civ. Stor. Nat. Verona, 4: 15.

Prolysiopetalum sorrentinum aviculare Manfredi, 1957, Annu. Inst. Mus. Zool. Univ. Napoli, 9 (2): 2, fig 1. Male HT: slides of leg-pairs and gonopods (MSNM) from Vallone Gaudolino, Pollino Mts, Calabria, Italy. Manfredi, 1976, Atti Soc. Ital. Sci. Nat. Mus. Civ. Stor. Nat. Milano, 117 (3–4): 224.

Prolysiopetalum (sorrentinum?) [sic!]: Strasser, 1970, Mem. Mus. Civ. Stor. Nat. Verona, 17: 156, 172.

Range: known from the Italian regions Puglia, Calabria, Abruzzi, Molise and probably also from Campania (cf. Strasser & Minelli, 1984).

Remark: see Minelli (1985) for the complete list of cave records. The taxonomic status of subspecies *aviculare* is uncertain.

Subgenus Heterocraspedum Verhoeff, 1909

Heterocraspedum Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 215. Type species: *Lysiopetalum scabratum* L. Koch, 1867, by subsequent designation by Hoffman & Lohmander, 1964.

Four species (six subspecies), southern parts of the Apenninian and Balkan peninsulas and Aegean coast of Asia Minor.

***Prolysiopetalum hoffmani* Strasser, 1970**

Prolysiopetalum (Heterocraspedum) hoffmani Strasser, 1970, Senckenb. Biol., 51 (3/4): 246, figs 15–18. Male HT (SMF) from Karpathos, between Diafani and Olymbos, Greece. Enghoff, 2006, Steenstrupia, 29 (2): 188.

Range: known only from the Greek island of Karpathos and the surroundings of Fethiye in Turkey.

***Prolysiopetalum isotropum* (Attems, 1903)**

Lysiopetalum (Schizopetalum) isotropum Attems, 1903, Zool. Jahrb. {Syst.}, 18: 130, Taf. 8, fig. 28, Taf. 9, figs 29–33. ST: M* and F*, slides of gonopods and leg-pairs 1–8 (NHMW) from Ayassoluk (Ajassoluk), Turkey.

Prolysiopetalum (Heterocraspedum) isotropum: Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 647.

Prolysiopetalum isotropum: Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 125. Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 89, figs 5–6. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 14. Enghoff, 2006, Steenstrupia, 29 (2): 188.

Range: known only from Ephesus (Ayassoluk) in Turkey.

***Prolysiopetalum pedefissum* (Verhoeff, 1903)**

Lysiopetalum pedefissum Verhoeff, 1903, Arch. Naturgesch., 69 (1): 147, figs. 3–8, 18. ST: 1 M, 1 juv. F (ZMB) from near Mesolongi and Klisura Sikia, Greece. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 345.

Range: mainland Greece.

***Prolysiopetalum scabratum* (L. Koch, 1867)**

Lysiopetalum scabratum L. Koch, 1867, Verh. k.k. Zool. Bot. Ges. Wien, 17 (2): 894. 3 exempl., sex unknown, possibly types (BMNH) from Corfu, Greece. Daday, 1889, Termész. Füzet., 12: 132. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 62. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 190. Verhoeff, 1901, Arch. Naturgesch., 67 (1): 248.

Lysiopetalum (Schizopetalum) scabratum peloponnesiacum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 63, Taf. VII, figs 11–14. ST: 2 juv., slide of male gonopods (ZMB) from Neuplia, Greece. Synonymy proposed by Strasser (1974a). Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 190. Verhoeff, 1903, Arch. Naturgesch., 69 (1): 151. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 345.

Lysiopetalum scabratum peloponnesiacum [sic!]: Verhoeff, 1901, Arch. Naturgesch., 67 (1): 247.

Lysiopetalum (Schizopetalum) scabratum peloponnesiaca: Attems, 1902, S.B. Kaiser. Akad. Wiss. Wien, 111 (I): 594.

Prolysiopetalum scabratum: Verhoeff, 1932, Zool. Jahrb. {Syst.}, 62: 494. Strasser, 1970, Senckenb. Biol., 51 (3–4): 243. Strasser, 1974, Rev. Suisse Zool., 81 (1): 256, figs 44–46. Strasser, 1976, Rev. Suisse Zool., 83 (3): 600, figs 27–28. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289.

Range: mainland Greece and the islands of Crete, Corfu, Zakynthos, Cephalonia and Lefkada.

***Prolysiopetalum scabratum achaicum* Strasser, 1976**

Prolysiopetalum scabratum achaicum Strasser, 1976, Rev. Suisse Zool., 83 (3): 600, figs 29–30. Male HT (MHNG) from Panachaikon Mt., SE Patras, Greece.

Range: known only from Peloponnese, Greece.

Subfamily Euxinopetalinae Hoffman, 1973

Euxinopetalinae Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 85.

One tribe, genus and species, Asiatic part of Turkey.

Tribe Euxinopetalini Hoffman, 1973

Euxinopetalini Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 85.

Genus *Euxinopetalum* Hoffman, 1973

Euxinopetalum Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 85. Type species: *E. dobatorum* Hoffman, 1973, by monotypy.

***Euxinopetalum dobatorum* Hoffman, 1973**

Euxinopetalum dobatorum Hoffman, 1973, Mitt. Hamb. Zool. Mus. Inst., 69: 86, figs 1–4. Male HT (ZMUH) from Cave Nr. 2, Indere, 2 km NW of Ereğli, Turkey. Rack, 1974, Mitt. Hamb. Zool. Mus. Inst., 70: 113. Enghoff, 2006, Steenstrupia, 29 (2): 188.

Range: known only from the type locality.

Subfamily Schizopetalinae Verhoeff, 1909

Schizopetalinae Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 212.

Two tribes – Schizopetalini and Dischizopetalini. Appeninian and Balkan peninsulas, southern parts of Romania.

Tribe Dischizopetalini Verhoeff, 1909

Dischizopetalini Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 213.

One monotypic genus, NE Italy and western part of the Balkan Peninsula.

Genus *Dischizopetalum* Verhoeff, 1900

Dischizopetalum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 52. Type species: *Lysiopetalum illyricum* Latzel, 1884, by monotypy.

***Dischizopetalum illyricum* (Latzel, 1884)**

Lysiopetalum illyricum Latzel, 1884, Die Myriopoden der Österreichisch-Ungarischen Monarchie, 2: 221, Taf. 9, figs 106–109. ST: 4 MM*, 4 FF*, 1 juv.* from Trieste and Gorizia, Italy; numerous MM* and FF* from “österreichischen Küstenlande” (NHMW); M, F, 3 juv. (ZMB) from Trieste. Daday, 1889, Myriopoda Regni Hungariae: 61. Daday, 1889, Termész. Fü., 12: 131. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71. Lang, 1958, Vest. Českosl. Spol. Zool., 22: 37. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 338. Stagl, 2006, Norw. J. Ent., 53: 227, 233.

Lysiopetalum illyricum var. *troglobium* Latzel, 1884, Die Myriopoden der Österreichisch-Ungarischen Monarchie, 2: 225. Type (whereabouts unknown, not found in NHMW) from Kosovo Cave on Uljan Island, Croatia. Gasperini, 1892, Prilog k dalmatinskoj fauni, 8. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71. Stagl, 2006, Norw. J. Ent., 53: 227.

Dischizopetalum illyricum: Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 644. Attems, 1929, Zool. Jahrb. {Syst.}, 56: 323. Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1511, fig. 908. Strasser, 1933, Verh. Zool.-Bot. Ges. Wien, 83: 179. Strasser, 1938, Zool. Jahrb. {Syst.}, 71: 405. Strasser, 1959, Ann. Naturhist. Mus. Wien, 63: 465. Strasser, 1965,

Biol. Glasnik, 18: 16. Strasser, 1966, Acta Carsol., 4: 187. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 32. Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 236. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Makarov et al., 2004, Inst. Zool. Monogr., 9: 244. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 13.

Range: NE Italy, Slovenia, Croatia (incl. Cres and Uljan islands), Serbia.

Remark: Lang's (1958) record from Peshtera, Bulgaria is most likely due to misidentification.

Tribe Schizopetalini Verhoeff, 1909

Schizopetalini Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 212.

Callipodellini Verhoeff, 1909, S.B. Ges. Natf. Freunde Berlin, 4: 212. Tribe invalidly proposed (cf. Hoffman, 1980).

Two genera – *Schizopetalum* and *Callipodella*, Appeninian and Balkan peninsulas, southern parts of Romania.

Genus *Schizopetalum* Verhoeff, 1900

Schizopetalum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 52. Type species: *Lysipetalum koelbeli* Verhoeff, 1895, by subsequent designation by Verhoeff, 1909.

One species.

Schizopetalum koelbeli (Verhoeff, 1895)

Lysipetalum koelbeli Verhoeff, 1895, Zool. Anz., 18: 207. ST: 2 MM*, 2 FF*, 3 juv.* (NHMW), 1 M (ZMB), 3 exempl. (ZMUH) from Rijeka (= Fiume), Croatia. Verhoeff, 1899, Arch. Naturgesch., 65 (1): 229.

Lysipetalum koelbeli: Weidner, 1960, Mitt. Hamb. Zool. Mus. Inst., 58: 94. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 339.

Schizopetalum kölbeli: Attems, 1929, Zool. Jahrb. {Syst.}, 56: 323. Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 647, fig. 47. Strasser, 1933, Verh. Zool.-Bot. Ges. Wien, 83: 179. Strasser, 1938, Zool. Jahrb. {Syst.}, 71: 405.

Schizopetalum koelbeli: Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1511, fig. 909, 1520, fig. 922 (spelled *kölbeli*). Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 32. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 234. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 15.

Range: Croatia (incl. Cres Island).

Genus *Callipodella* Verhoeff, 1900

Callipodella Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 51. Type species: *Lysipetalum fasciatum* Latzel, 1883, by subsequent designation by Jeekel (1971).

Micropodella Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 640. Type species: *Lysipetalum mostarense* Verhoeff, 1901, by monotypy. Synonymy proposed by Hoffman (1980).

Triainopodella Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 641. Type species: *Lysipetalum herzogowinense* Verhoeff, 1897, by monotypy. Synonymy proposed by Hoffman (1980).

Sorrentopodella Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 642. Type species: *Lysipetalum camaldulense* Attems, 1903, by subsequent designation by Jeekel (1971). Synonymy proposed by Hoffman (1980).

Five species (six subspecies), Appeninian and Balkan peninsulas, southern parts of Romania.

Callipodella dorsovittata (Verhoeff, 1900)

Lysipetalum (Callipodella) dorsovittatum Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13, 61, Taf. 7, Figs. 8–10. ST: 2 FF* (NHMW), juv. F, slides of male 6–8 leg-pairs and gonopods (ZMB) from Corfu Island, Greece. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 189. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 334.

Callipodella dorsovittata: Strasser, 1974, Rev. Suisse Zool., 81 (1): 256. Strasser, 1976, Rev. Suisse Zool., 83 (3): 603. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 11.

Range: Corfu Island, Greece.

Remark: This species is considered putative synonym of *C. fasciata* by Mauriès et al. (1997).

Callipodella fasciata (Latzel, 1883)

Lysipetalum fasciatum Latzel, 1883, Verh. k.k. Zool. Bot. Ges. Wien, 32: 282. ST: M*, 2 FF* from Baile Herculane, Romania and from unspecified locality in Serbia (NHMW) and 5 MM, 4 FF, 10 juv. (ZMB) from Serbia. Latzel, 1884, Myriopoden Österr.-Ungar. Mon., 2: 225, Taf. IX, fig. 110. Latzel, 1888, Verh. k.k. Zool. Bot. Ges. Wien, 38: 92. Daday, 1889, Termész. Füzet., 12: 131. Daday, 1889, Myriopoda Regni Hungariae: 61. Karlinski, 1894, Sep. Wiss. Mitt. Bosnien Hercegovina, 2: 691. Verhoeff, 1899, Arch. Naturgesch., 65 (1): 229. Verhoeff, 1900, Arch. Naturgesch., 66 (1): 223. Verhoeff, 1901, Arch. Naturgesch., 67 (1): 248. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71. Georgieva, 1969, Ann. Fac. Sci. Univ. Skopje, 21: 189. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 335. Stagl, 2006, Norw. J. Ent., 53: 234.

Lysiopetalum trifasciatum Daday, 1889, Termész. Füzet., 12: 131. 3 FF ST (HNHM) from Corfu, Greece. Putative synonym of *C. fasciata* (cf. Mauriès et al., 1997).

Callipus trifasciatus: Silvestri, 1896, Ann. Mus. Civ. Stor. Nat. Genova, Series 2, 16 (36): 8.

Callipodella fasciata: Attems, 1929, Zool. Jahrb. {Syst.}, 56: 323. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 32. Strasser, 1973, Ann. Zool., 30 (15): 430, figs 25–26. Mršić, 1993, Razpr. IV. Razr. SAZU, 34 (2): 24. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Makarov et al., 2004, Inst. Zool. Monogr., 9: 244. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 12, fig. 3.

Callipodella fasciatum: Verhoeff, 1932, Zool. Jahrb. {Syst.}, 62: 493.

Lysiopetalum fasciatum var. *banatica* Ceuca, 1956, Stud. Cerc. Biol., 7 (1–4): 125, figs 1–4.

Range: Albania, Bosnia and Herzegovina, Bulgaria, Greece (incl.? Corfu and Zakynthos islands), Republic of Macedonia, Montenegro, Romania, Serbia.

Remark: Verhoeff (1900c) concluded that *L. trifasciatum* is based on juveniles of *Prolysiopetalum scabratum*, while Mauriès et al. (1997) presumed that this species and *C. dorsovittata* are most likely identical with *C. fasciata*. Makarov et al. (2004) reviewed all species' records in Serbia, Republic of Macedonia and Montenegro. Silvestri's record (1896a) of *C. trifasciatus* from Zakynthos Island is doubtful and may actually belong to another species of Callipodida.

***Callipodella herzogowinensis* (Verhoeff, 1897)**

Lysiopetalum herzogowinense Verhoeff, 1897, Arch. Naturgesch., 63 (1): 153. HT?: F* (NHMW), F (ZMUH) from Trebinje, Bosnia and Herzegovina. Verhoeff, 1899, Arch. Naturgesch., 65 (1): 227, figs 14–16. Weidner, 1960, Mitt. Hamb. Zool. Mus. Inst., 58: 94.

Lysiopetalum hercegovinense: Verhoeff, 1899, Wiss. Mitt. Bosnien Hercegovina, 6: 761.

Callipodella hercegovinensis: Attems, 1929, Zool. Jahrb. {Syst.}, 56: 323.

Lysiopetalum hercegovinense: Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71.

Callipodella herzogowinensis: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 32. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 236. Makarov et al., 2004, Inst. Zool. Monogr., 9: 244.

Callipodella herzogowinensis: Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 13.

Range: Bosnia and Herzegovina, Croatia.

***Callipodella mostarensis* (Verhoeff, 1901)**

Lysiopetalum (Callipodella) mostarensis Verhoeff, 1901, Arch. Naturgesch., 67 (1): 224, figs 9–10. ST: 2 MM, 1 F (ZMB), 1 M*, 1 F* (NHMW) from “Radobolja-Oase” near Mostar, Bosnia and Herzegovina. Kovačević, 1931, Acta Soc. Ent. Jugosl., 5–6 (1–2): 71. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 342.

Callipodella mostarensis: Attems, 1929, Zool. Jahrb. {Syst.}, 56: 323. Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 32. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Makarov et al., 2004, Inst. Zool. Monogr., 9: 244. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 18.

Range: Albania, Bosnia and Herzegovina, Montenegro, Croatia.

***Callipodella mostarensis kerkana* Verhoeff, 1929**

Lysiopetalum (Micropodella) mostarensis kerkanum Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 643, figs 41–43. ST: 2 MM, 3 FF, 1 juv. (ZMB), 2 MM*, 1 F* (NHMW), 3 exempl.* Cat. No. 508 (RMNH), 1 exempl. (SMF) from Knin, Croatia. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 339.

Callipodella mostarensis kerkanum: Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1515, fig. 916, 1516, fig. 917, 1517, fig. 918.

Callipodella mostarensis kerkana: Strasser, 1971, Catal. Faunae Jugosl. Diplopoda: 32. Mršić, 1994, Razpr. IV. Razr. SAZU, 35 (12): 236. Mauriès et al., 1997, Zoosystema, 19 (2–3): 289. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 14.

Range: Montenegro, Croatia.

***Callipodella vinciguerrae* (Silvestri, 1894)**

Lysiopetalum Vinciguerrae Silvestri, 1894, Boll. Soc. Rom. Studi Zool., 3: 42. Type: number and sex unspecified from S. Andreae, Bevagna, Umbria, Italy (F ST from Bevagna in HNHM). Verhoeff, 1902, Arch. Naturgesch., 68 (1): 194, 195.

Callipus Vinciguerrae: Silvestri, 1894, Boll. Soc. Rom. Studi Zool., 3: 200.

Lysiopetalum (Callipodella) camaldulense Attems, 1903, Zool. Jahrb. {Syst.}, 18: 131, Taf. 9, figs 34–36. ST*: 4 MM, 6 FF all intact, 1 frgm.; two slides of gonopods and legs 1–10 (NHMW) from Camaldoli, Naples, Italy. Synonymy proposed by Strasser & Minelli (1984). Strasser, 1958, Boll. Soc. Adr. Sci. Nat., 49, 147.

Callipodella (Sorrentopodella) camaldulense: Verhoeff, 1929, Zool. Jahrb. {Syst.}, 57: 642, figs 44–46. Verhoeff, 1931, Zool. Jahrb. {Syst.}, 60: 318. Verhoeff, 1932, Zool. Jahrb. {Syst.}, 63: 319. Verhoeff, 1932, Bronn's Kl. Ord. Tier-Reichs, 5: 1518, fig. 919, 1519, fig. 920–921.

Callipodella (Sorrentopodella) camaldulense furcilligerum Verhoeff, 1932, Zool. Jahrb. {Syst.}, 63: 318, Taf. 6, fig. 21. ST: 1 M, 2 FF, 1 larva (type repository unknown) from Isernia, Italy.
Callipodella vinciguerrae: Strasser & Minelli, 1984, Lav. Soc. Venez. Sci. Nat., 9 (2): 204. Minelli, 1985, Mem. Mus. Civ. Stor. Nat. Verona, 4: 14. Stagl & Stoev, 2005, Katal. Wiss. Samml. Naturhist. Mus. Wien, 19 (2): 8.
Range: nominate subspecies is known from the Italian provinces Lazio, Umbria and Campania (cf. Minelli 1985), the status of *furcilligerum* is uncertain.

Subfamily Tynommatinae Hoffman, 1980

Tynommatinae Hoffman, 1980, Classification of the Diplopoda: 120, 122. Shelley, 1996, Ent. Scand., 27: 25 et seq. (revision).

Five tribes, southwestern United States, Mexico.

Tribe Aspidiophonini Shelley, 2000

Aspidiophonini Shelley, 2000, Myriapodologica, 6 (9): 83.

One genus and species, Mexico.

Genus Aspidiophon Shelley, 2000

Aspidiophon Shelley, 2000, Myriapodologica, 6 (9): 85. Type species: *A. divisum* Shelley, 2000, by original designation.

***Aspidiophon divisum* Shelley, 2000**

Aspidiophon divisum Shelley, 2000, Myriapodologica, 6 (9): 85, figs 1–3. Male HT (AMNH) from a site near Piaxtla, Sinaloa, Mexico. Bueno-Villegas et al., 2004, Biodiv., Taxonom. Biogeogr. Artróp. México, 4: 589.

Range: known only from the type locality.

Tribe Colactidini Hoffman, 1980

Colactidini Hoffman, 1980, Classification of the Diplopoda: 121. Shelley, 1996, Ent. Scand., 27 (1): 30. Shelley, 1997, Myriapodologica, 5: 36 (key to genera).

Three genera, California to New Mexico, south through western Mexico to southern Sinaloa.

Genus Colactis Loomis, 1937

Colactis Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 120. Type species: *C. saxetana* Loomis, 1937, by original designation.

Four species, southern Utah and Nevada to Sinaloa and Baja California Norte.

***Colactis protenta* Loomis, 1937**

Colactis protenta Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 126, figs 16g–i, pl. 3, fig. 3. Male HT (USNM) from a site along Hy. 1, 15 miles north of Ensenada, Baja California Norte, Mexico. Shelley, 1996, Ent. Scand., 27 (1): 32, figs 5–8. Hoffman, 1999, Checklist Millip. North & Middle Am.: 201. Bueno-Villegas et al., 2004, Biodiv., Taxonom. Biogeogr. Artróp. México, 4: 589.

Range: Northern half of Baja California Norte and adjacent part of San Diego County, California (cf. Hoffman 1999).

***Colactis quadrata* Loomis, 1937**

Colactis quadrata Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 128, figs 16e, f, pl. 3, fig. 5. Male HT (USNM) from Cave Creek Canyon, Chiracahua Mountains, Cochise County, Arizona. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 111. Shelley, 1996, Ent. Scand., 27 (1): 34, figs 9–14. Hoffman, 1999, Checklist Millip. North & Middle Am.: 201. Bueno-Villegas et al., 2004, Biodiv., Taxonom. Biogeogr. Artróp. México, 4: 589.

Range: extreme southeastern Arizona and adjacent northernmost Sonora (cf. Hoffman 1999).

***Colactis tiburona* (Chamberlin, 1923)**

Lysiopetalum tiburonum Chamberlin, 1923, Proc. Calif. Acad. Sci., (4 Ser.), 12 (18): 402, figs 34–35. Male HT (CAS) from an Indian village on the southern end of Tiburon Island, Sonora, Mexico.

Colactis tiburona: Loomis, 1937, Proc. U.S. Natl. Mus. Wash., Washington 84 (3006): 128. Shelley, 1996, Ent. Scand., 27 (1): 32, figs 2–4. Hoffman, 1999, Checklist Millip. North & Middle Am.: 201. Bueno-Villegas et al., 2004, Biodiv., Taxonom. Biogeogr. Artróp. México, 4: 589.

Colactis sideralis Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 125, figs 16 j, k, pl. 4, figs 1, 2. Male HT (USNM) from Estrella Mountains, Maricopa County, Arizona, USA. Synonymy proposed by Shelley (1996). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 111.

Colactis loomisi Hoffman, 1954, Am. Mus. Novit., 1673: 1, figs 1–5. Male HT (AMNH) from Providencia, Durango, Mexico. Synonymy proposed by Shelley (1996).

Colactis yuma Chamberlin, 1958, Entomol. News, 69: 121, fig. 1. Male HT (USNM) from Laguna Dam, ca. ten miles north of Yuma, Yuma County, Arizona, USA. Synonymy proposed by Shelley (1996).

Range: southwestern Arizona and adjacent California, USA to Durango, Mexico (cf. Hoffman 1999).

***Colactis utorum* (Chamberlin, 1925)**

Spirostrephon utorum Chamberlin, 1925, Pan-Pacific Entomol., 2 (2): 61. Male HT (USNM) from near Green River, Emery County, Utah, USA. Chamberlin, 1930, Pan-Pacific Entomol., 6 (3): 121.

Colactis utorum: Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 130. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 111. Shelley, 1996, Ent. Scand., 27 (1): 36, figs 15–16. Hoffman, 1999, Checklist Millip. North & Middle Am.: 201.

Colactis saxetana Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 122, figs 16a, b; pl. 3, fig. 2. Male HT (USNM) from the north slope of Picacho Mountain, Pinal County, Arizona. Synonymy proposed by Shelley (1996). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 111.

Colactis baboquivari Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 123, figs 16c, d; pl. 3, fig. 4. Male HT (USNM) from Baboquivari Canyon, southwest of Tucson, in Pima County, Arizona. Synonymy proposed by Shelley (1996). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 111.

Colactis briggsi Shear, 1974, Occ. Pap. Calif. Acad. Sci., 112: 2, figs 1–3. Male HT (CAS) from Shoshone Cave, near Shoshone, Inyo County, California, USA. Synonymy proposed by Shelley (1996).

Range: east central Utah to south central Arizona, southern Nevada, southeastern California, USA (cf. Hoffman 1999).

Genus *Colactoides* Shelley, 1997

Colactoides Shelley, 1997, Myriapodologica, 5: 36. Type species: *C. grandis* Shelley, by original designation.

One species.

***Colactoides grandis* Shelley, 1997**

Colactoides grandis Shelley, 1997, Myriapodologica, 5: 37, figs 1–4. Male HT (CAS) from a site along the Rio Urique, ca. 8 km southwest of Tejaban, Chihuahua, Mexico. Hoffman, 1999, Checklist Millip. North & Middle Am.: 202. Bueno-Villegas et al., 2004, Biodiv., Taxonom. Biogeogr. Artróp. México, 4: 589.

Range: known only from the type locality.

Genus *Heptium* Loomis, 1937

Heptium Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 130. Type species: *H. carinellum* Loomis, 1937, by original designation. Shelley, 1996, Ent. Scand., 27 (1): 37.

Two species, extreme southern California (San Bernardino, Riverside, Imperial counties).

***Heptium carinellum* Loomis, 1937**

Heptium carinellum Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 132, figs 18f–j, pl. 4, figs 3, 4. Male HT (USNM) from two miles east of Indian Head on the Indio-El Centro road, Imperial County, California, USA. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 114. Shelley, 1996, Ent. Scand., 27 (1): 37, figs 17–19. Hoffman, 1999, Checklist Millip. North & Middle Am.: 202.

Heptium canum Chamberlin, 1941, Bull. Univ. Utah, Biol. Ser., 6 (11): 22, plate 5, figs 42–44. Male HT (USNM) from Coyote Wells (now called Ocotillo, cf. Hoffman 1999), Imperial County, California, USA. Synonymy proposed by Shelley (1996). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 113.

Range: Riverside and Imperial counties, California, USA (cf. Hoffman 1999).

***Heptium scamillatum* Loomis, 1937**

Heptium scamillatum Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 134, figs 18a–e, pl. 4, figs 5, 6. Male HT (USNM) from a site along Hy. 74 between Perris and Elsinore, Riverside County, California, USA. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 114. Shelley, 1996, Ent. Scand., 27 (1): 38, figs 20–21. Hoffman, 1999, Checklist Millip. North & Middle Am.: 202.

Range: Riverside and San Bernardino counties, California, USA (cf. Hoffman 1999).

Tribe Diactidini Shelley, 1996

Diactidini Shelley, 1996, Ent. Scand., 27 (1): 40.

Three genera, extreme southern California, USA.

Genus *Caliactis* Shelley, 1996

Caliactis Shelley, 1996, Ent. Scand., 27 (1): 47. Type species: *C. bistolata* Shelley, 1996, by original designation.

One species.

***Caliactis bistolata* Shelley, 1996**

Caliactis bistolata Shelley, 1996, Ent. Scand., 27 (1): 49, figs 60–63. Male HT (LACM) at Mission Viejo, Orange County, California, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 203.

Range: known only from the type locality.

Genus *Diactis* Loomis, 1937

Diactis Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 110. Type species: *D. soleata* Loomis, by original designation. Shelley, 1996, Ent. Scand., 27 (1): 40.

Etiron Chamberlin, 1941, Bull. Univ. Utah, Biol. Ser., 6 (11): 21. Type species: *E. paroicum* Chamberlin, 1941, by original designation. Synonymized by Hoffman (1980).

Eight very localized species, southwesternmost California, USA.

***Diactis amniscela* Shelley, 1996**

Diactis amniscela Shelley, 1996, Ent. Scand., 27 (1): 46, figs 52–55. Male HT (LACM) from Banning, Riverside County, California, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 203.

Range: known only from the type locality.

***Diactis cupola* Shelley, 1996**

Diactis cupola Shelley, 1996, Ent. Scand., 27 (1): 43, figs 36–38. Male HT (USNM) from a site three miles north of Santa Monica, Los Angeles County, California, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 203.

Range: Santa Monica Mountains, southern California, USA (cf. Hoffman 1999).

***Diactis frondifera* Loomis, 1937**

Diactis frondifera Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 116, fig. 17f. Male HT (USNM) from Torrey Pines near La Jolla, San Diego County, California, USA. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 112. Shelley, 1996, Ent. Scand., 27 (1): 45, figs 44–48. Hoffman, 1999, Checklist Millip. North & Middle Am.: 204.

Range: coastal region in San Diego and Los Angeles counties, California, USA (cf. Hoffman 1999).

***Diactis jacinto* Shelley, 1996**

Diactis jacinto Shelley, 1996, Ent. Scand., 27 (1): 46, figs 49–51. Male HT (USNM) from a site along highway 243 in the San Jacinto Mountains, south of Banning, Riverside County, California, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 204.

Range: known only from the San Jacinto Mountains, Riverside County, California, USA.

New records: 2 MM, 4 FF, ca. 113 juv. of different age, USA, CA: Riverside Co., San Jacinto Mts., Vista Grande +/- 20 km NW Idyllwild, 30°50.5'N, 116°48.8'W; 1450 m, scrub oak, forest litter and rotted rat nest stiks, 26.iii.1999, S. & J. Peck leg. (FMNH).

***Diactis procera* Shelley, 1996**

Diactis procera Shelley, 1996, Ent. Scand., 27 (1): 41, figs 28–31. Male HT (LACM) from Silverado Canyon, ca. 11 miles north of Mission Viejo, Orange County, California, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 204.

Range: known only from the type locality.

***Diactis soleata* Loomis, 1996**

Diactis soleata Loomis, 1937, Proc. U.S. Natl. Mus. Wash., Washington 84: 113, figs 17b–e, pl. 3, fig. 1. Male HT (USNM) from along Temescal Canyon Road, ca. 10.2 miles south of Corona, Riverside County, California, USA. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 113. Shelley, 1996, Ent. Scand., 27 (1): 41, figs 23–27. Hoffman, 1999, Checklist Millip. North & Middle Am.: 204.

Range: three localities in Riverside and Los Angeles counties, California, USA (cf. Hoffman 1999).

***Diactis strumella* Shelley, 1996**

Diactis strumella Shelley, 1996, Ent. Scand., 27 (1): 43, figs 32–35. Male HT (USNM) from Laguna Beach, Orange County, California, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 204.

Range: known only from the type locality.

***Diactis triangula* Loomis, 1937**

Diactis triangula Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 114, fig. 17e. Male HT (USNM) from along Cottonwood Creek, ca. 46 miles east of San Diego, San Diego County, California, USA. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 113. Shelley, 1996, Ent. Scand., 27 (1): 43, figs 39–43. Hoffman, 1999, Checklist

Millip. North & Middle Am.: 204. Bueno-Villegas et al., 2004, Biodiv., Taxonom. Biogeogr. Artróp. México, 4: 589. *Etiron parvicum* Chamberlin, 1941, Bull. Univ. Utah, Biol. Ser., 6 (11): 21, plate 4, figs 37–41. Male HT (USNM) from Mountain Spring, Riverside County, California, USA. Synonymy proposed by Shelley (1996). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 113.
Range: from San Bernardino County in California, USA to northernmost Baja California Norte in Mexico (cf. Hoffman 1999).

Genus *Florea* Shelley, 1996

Florea Shelley, 1996, Ent. Scand., 27 (1): 46. Type species: *F. sinuata* Shelley, 1996, by original designation.
One species.

***Florea sinuata* Shelley, 1996**

Florea sinuata Shelley, 1996, Ent. Scand., 27 (1): 46, figs 56–59. Male HT (USNM) from an unspecified site in the Trabuco Ranger District, Cleveland National Forest, Orange County, California. Hoffman, 1999, Checklist Millip. North & Middle Am.: 205.
Range: known only from the type locality.

Tribe *Texophonini* Shelley, 1989

Texophonini Shelley, 1989, Southwest. Natur., 34: 382; 1996, Ent. Scand., 27 (1): 330, 61.
One genus.

Genus *Texophon* Chamberlin, 1946

Texophon Chamberlin, 1946, Entomol. News, 57: 98. Type species: *T. nessium* Chamberlin, by original designation. Shelley, 1989, Southwest. Natur., 34: 383.
Two species, southern Texas, USA.

***Texophon aransas* Shelley, 1989**

Texophon aransas Shelley, 1989, Southwest. Natur., 34: 387, figs 3, A–D. Male HT (FSCA) from the Welder Wildlife Refuge, seven miles north of Sinton, San Patricio County, Texas, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 207.
Range: known only from the type locality.

***Texophon nessium* Chamberlin, 1946**

Texophon nessius [sic!] Chamberlin, 1946, Entomol. News, 57: 98, figs 1, 2. Male HT (USNM) from a site near Laguna Madre, 23 miles southeast of Harlingen, Cameron County, Texas, USA. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 114.
Texophon nessium: Shelley, 1989, Southwest. Natur., 34: 385, fig. 2, A–C. Hoffman, 1999, Checklist Millip. North & Middle Am.: 207.
Range: known from two localities in Cameron County, Texas, USA (cf. Hoffman 1999).

Tribe *Tynommatini* Hoffman, 1980

Tynommatinae Hoffman, 1980, Classification of the Diplopoda: 120, 122.
Tynommatini Shelley, 1996, Ent. Scand., 27 (1): 49.
Two genera, coastal central California, southwestern Utah, USA.

Genus *Idrionaria* Shelley, 1996

Idrionaria Shelley, 1996, Ent. Scand., 27 (1): 54. Type species: *I. dineh* Shelley, 1996, by original designation.
One species.

***Idrionaria dineh* Shelley, 1996**

Idrionaria dineh Shelley, 1996, Ent. Scand., 27 (1): 54, figs 72–74. Male HT (USNM) from Pintura, Washington County, Utah, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 205.
Range: known only from two localities in Washington County, Utah (cf. Hoffman 1999).

Genus *Tynomma* Loomis, 1937

Tynomma Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 117. Type species: *T. sedecimum* Loomis, 1937, by original designation. Buckett & Gardner, 1969, Pan-Pacific Entomol., 45 (3): 204 (revision). Gardner, 1973, Pan-Pacific Entomol., 49 (3): 270 (key). Shelley, 1996, Ent. Scand., 27 (1): 50 (revision).
Three species, central western California, USA, immediately north and south of San Francisco Bay.

***Tynomma magnum* Buckett & Gardner, 1969**

Tynomma magnum Buckett & Gardner, 1969, Pan-Pacific Entomol., 45 (3): 207, figs 2, 4, 7, 10. Male HT (UCDC) from a site seven miles east of Monterey, Monterey County, California, USA. Shelley, 1996, Ent. Scand., 27 (1): 52, figs 68–70. Hoffman, 1999, Checklist Millip. North & Middle Am.: 205.

Range: numerous localities in northern Monterey County, California (cf. Hoffman 1999).

***Tynomma mutans* (Chamberlin, 1910)**

Lysiopetalum mutans Chamberlin, 1910, Ann. Entomol. Soc. Am., 3: 233, pl. 30, figs 1–10, pl. 31, figs 1, 2. Female ST (USNM) from Stanford, Santa Clara County, California, USA.

Tynomma mutans: Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 120. Buckett & Gardner, 1969, Pan-Pacific Entomol., 45 (3): 211, figs 1, 3, 5, 6, 8, 9. Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 115. Shelley, 1996, Ent. Scand., 27 (1): 51, figs 65–67. Hoffman, 1999, Checklist Millip. North & Middle Am.: 206.

Tynomma sedecimum Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 118, figs 17j–l, pl. 3, fig. 6. Male HT (USNM) from a site between Vallejo and Cordelia, Solano County, California, USA. Synonymy proposed by Buckett & Gardner (1969). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 114.

Tynomma consanguineum Loomis, 1937, Proc. U.S. Natl. Mus. Wash., 84 (3006): 119, figs 17g–i. Male HT (USNM) from the Santa Cruz Mountains between Santa Cruz and Holy City, Santa Cruz County, California, USA. Synonymy proposed by Buckett & Gardner (1969). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 114.

Etiron pearcei Chamberlin, 1941, Bull. Univ. Utah, Biol. Ser., 6 (11): 22. Female HT (USNM) from Castro Valley, Alameda County, California, USA. Synonymy proposed by Shelley (1996). Chamberlin & Hoffman, 1958, Bull. U.S. Natl. Mus., 212: 113.

Range: central California coastal region from Sonoma County south to northern San Benito County, USA (cf. Hoffman 1999).

***Tynomma schlingeri* Gardner, 1973**

Tynomma schlingeri Gardner, 1973, Pan-Pacific Entomol., 49 (3): 270, figs 1, 2. Male HT (?UCDC) from Del Puerto Canyon, 1200 ft., Frank Raines Park, Stanislaus County, California, USA. Hoffman, 1999, Checklist Millip. North & Middle Am.: 206.

Tynomma gardneri Shelley, 1996, Ent. Scand., 27 (1): 54, figs 82–84. Male HT (UCDC) from the same locality. Synonymy proposed by Hoffman (1999).

Range: known from several localities in Santa Clara and Stanislaus counties, California (cf. Hoffman 1999).

Taxa with uncertain taxonomic position (*species inquirenda*)

***Eurygyrus muscorum* Lucas, 1840**

Julus muscorum Lucas, 1840, Ann. Soc. Ent. France, 9: 55, pl. 4, fig. 1 (paper not seen). Type specimen/s from a site near Paris, France (cf. Gervais, 1847). Gervais, 1847, Hist. Nat. Ins. Apt., 4: 143.

Eurygyrus muscorum: C.L. Koch, 1847 System der Myriapoden: 116.

Range: France.

***Eurygyrus serialis* C.L. Koch, 1847**

Eurygyrus serialis C.L. Koch, 1847 System der Myriapoden: 115. Type (whereabouts unknown) from unknown locality.

C.L. Koch, 1863, Die Myriapoden, 1: 13, Taf. VI, fig. 13. Berlese, 1883, Acari, Myriopoda et Scorpiones hucusque in Italia reperta, fasc. 2: pl. 8, figs 1–6.

Range: type locality unknown. Berlese's record (1883) is based on specimen collected in Tarvisino (Treviso), Italy.

***Lysiopetalum corcyraeum* L. Koch, 1867**

Lysiopetalum Corcyraeum L. Koch, 1867, Verh. k.k. Zool. Bot. Ges. Wien, 17 (2): 897. Type (whereabouts unknown; not at BMNH) from Corfu Island, Greece.

Range: Greek island of Corfu.

***Lysiopetalum costatum* Karsch, 1880**

Lysiopetalum costatum Karsch, 1880, Mitt. Münchner Ent. Ver., 4: 144. Female HT* (ZMB) from unspecified locality, probably “Amer.[ica] septentr.[ionale]” (cf. Karsch 1880). Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 333.

Range: uncertain, probably southern states of USA.

***Iulus costulatus* Motschoulsky, 1851**

Iulus costulatus Motschoulsky, 1851, Bull. Soc. Imp. Natur. Moscou, 24: 595. Type (whereabouts unknown) from Dalmatia?

Range: Latzel (1884) considered this species as putative synonym of either *Lysiopetalum insculptum* or *L. carinatum*.

***Lysiopetalum erberi* L. Koch, 1867**

Lysiopetalum Erberi L. Koch, 1867, Verh. k.k. Zool. Bot. Ges. Wien, 17 (2): 896. ST (labeled by R. Hoffman as male LT and one male and 3 females PTS, but never designated): 2 MM, 3 FF (BMNH) from Corfu, Greece. Daday, 1889, Termész. Fü., 12: 132. Verhoeff, 1900, Zool. Jahrb. {Syst.}, 13: 55.

Range: Greek island of Corfu.

Remark: possible senior synonym of *Acanthopetalum albidicolle* Verhoeff, 1900 (cf. Verhoeff 1900a).

***Lysiopetalum longicorne* Daday, 1889**

Lysiopetalum longicorne Daday, 1889, Termész. Fü., 12: 133, Tab. V, fig. 6. Male HT (HNHM) from Patras, Greece.

Range: known only from the type locality.

***Lysiopetalum setigerum* Karsch, 1880**

Lysiopetalum setigerum Karsch, 1880, Mitt. Münchner Ent. Ver., 4: 143. Female HT* (ZMB) from “Amer.[ica] sept.[entrionale]”. Moritz & Fischer, 1974, Mitt. Zool. Mus. Berlin, 50 (2): 347.

Range: uncertain, probably southern states of USA.

***Lysiopetalum unicolor* Daday, 1889**

Lysiopetalum unicolor Daday, 1889, Termész. Fü., 12: 131. ST: 2 MM, 13 FF (HNHM) from Corfu, Greece.

Range: Greek island of Corfu.

***Lysiopetalum unilineatum* Daday, 1889**

Lysiopetalum unilineatum Daday, 1889, Termész. Fü., 12: 132, Tab. V, fig. 9. Female HT (HNHM) from Corfu, Greece.

Range: Greek island of Corfu.

Missidentified species

***Lysiopetalum carinatum* sensu Ceuca nec Brandt, 1840**

Lysiopetalum carinatum: Ceuca, 1973, Bull. Inst. Zool. Mus., 38: 242, fig. 1.

“*Lysiopetalum*” *carinatum*: Strasser, 1975, Acta Zool. bulgarica, 3: 76.

Range: Narechenski bani in Western Rhodopes Mts, Bulgaria.

Remark: Strasser (1975a) expressed doubts about Ceuca’s report of *A. carinatum* from Bulgaria. Examination of additional specimens of same species has shown that it is a new species of *Acanthopetalum* (P. Stoev, in prep.).

***Lysiopetalum rufolineatum* sensu auctorum (nec C.L. Koch, 1847)**

Lysiopetalum rufolineatum: Porat, 1893, Rev. Biol. Nord France, 6 (2): 73. Hoffman & Lohmander, 1964, Mitt. Hamb. Zool. Mus. Inst., 62: 150.

Callipus rufolineatus: Silvestri, 1895, Boll. Mus. Zool. Anat. Comp. Univ. Torino, 10 (199): 2.

Broelemannia (*Syriopetalum*) *rufolineatum* (Porat): Verhoeff, 1923, Arch. Naturgesch., 89A (4): 133.

Eurygyrus rufolineatus: Tabacaru, 1995, Soil Fauna of Israel, 1: 26.

Range: Israel: Jerusalem (cf. Porat 1893 and Silvestri 1895c). Genezareth (Kinneret) Lake (cf. Verhoeff 1923). Lebanon: Beirut, “Merdsch-Ain” (cf. Silvestri 1895c). Ain Couffin (Syria or Israel) (cf. Porat 1893).

Remark: for the status of specimens identified as *Lysiopetalum rufolineatum* by Porat (1893), Silvestri (1895) and Verhoeff (1923) see Hoffman & Lohmander (1964).

***Lysiopetalum plicatum* Guerrin** (Icon. du Règ. Anim. de Cuv., Ins., pl. 1, fig. 3) from Egypt (cf. Gervais (1847) is probably not a callipodid millipede.

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