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All genera of the world: Order Solifugae (Animalia: Arthropoda: Arachnida)

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Abstract

There are 199 genus-group names available in the arachnid Order Solifugae Sundevall, 1833 by the end of 2025. Of these, 152 refer to currently accepted extant genera (146, including five subgenera elevated to the rank of genus) and extinct genera (6). A new generic synonym, presented herein, raises to 47 the number of genus-group names in synonymy. Thirty (20%) of the currently accepted genus-group names were described since 1950. Solifugae includes 1202 currently accepted species-group names (1196 extant species, including 37 extant subspecies elevated to the rank of species herein, and six extinct species) and 16 *nomina dubia*. Despite this descriptive activity, the suprageneric phylogeny and classification of the order remain poorly understood.

Key words: Australosolifugae, Boreosolifugae, Ammotrechidae, Ceromidae, Daesiidae, Dinorhaxidae, Eremobatidae, Galeodidae, Gylippidae, Hexisopodidae, Karschiidae, Lipophagidae, Melanoblossiidae, Mummuciidae, Namibesiidae, †Protosolpugidae, Rhagodidae, Solpugidae, Ammotrechinae, Daesiinae, Eremobatinae, Ferrandiinae, Gluviinae, Gluviopsinae, Gnosippinae, Mortolinae, Nothopuginae, Oltacolinae, Saronominae, Solpuginae, Therobatinae, Triditarsinae, generic names, synonyms, type species, baardskeeders, camel spiders, false spiders, haarskeeders, jagspinnekoppe, jerrymanders, jerrymunglums, red romans, roman spiders, solifugids, solifuges, solpugids, sun spiders, Walzenspinnen, wind scorpions

Introduction

Solifuges, also known as solifugids, solpugids, and by many vernacular names (e.g., *baardskeeders*, camel spiders, false spiders, *haarskeeders*, *jagspinnekoppe*, jerrymanders, jerrymunglums, red romans, roman spiders, sun spiders, *Walzenspinnen*, wind scorpions; also see Bird *et al.*, 2022), are specialized hunting arachnids, notable for their massively powerful two-segmented chelicerae, insatiable appetite, and tremendous speed (Bird *et al.*, 2015). Solifuges can run extremely fast (up to 53 cm/sec recorded) for short bursts but, like most arachnids,

cannot sustain rapid locomotion for long (Punzo, 1998a). Solifuge species vary from a few millimeters to 15 cm in length (most average 1–5 cm) and superficially resemble stout, hairy, fast-running spiders with an extra pair of legs (leg-like, sensory pedipalps, held out in front). Besides their enormous chelicerae, morphological characters of the order include a reduced first pair of legs with a sensory function; stalked, leaf-like chemosensory structures (malleoli or racquet organs) on the coxae, trochanters and basifemora of the fourth pair of legs; prosoma divided into a pro-, meso- and metapeltidium; a pair of median ocelli and one or more pairs of eyespots on the propeltidium; prosomal stigmata (or spiracles); male cheliceral flagellae; pedipalp coxal gland orifices; pedipalp suctorial organs; opisthosomal ctenidia in some taxa; and a monocondylar walking leg joint between the femur and patella (Brownell & Farley, 1974; Lamoral, 1975; Shultz, 1989, 1990, 2007; Cushing *et al.*, 2005).

Whereas most solifuges are nocturnal (the Latin name means ‘to flee the sun’), several families and genera contain diurnal species (hence ‘sun spider’), some of which are brightly colored, striped and/or densely hirsute. Among them are species which appear to mimic the appearance and movement of venomous insects (e.g., wasps), scorpions or seeds blowing across the ground (Cloudsley-Thompson, 1949; Wharton, 1981). All species possess stridulatory ridges on the prolateral surfaces of the chelicerae which, in some species, are capable of producing an audible hiss when the solifuge is alarmed (Dumortier, 1963; Cloudsley-Thompson & Constantinou, 1984; Hrušková-Martišová *et al.*, 2008).

Solifuges occur on all major terrestrial landmasses except Antarctica, Australia, Greenland, Iceland, Madagascar and New Zealand, as well as on many smaller islands (Pocock, 1899a; Baert *et al.*, 1995; Armas & Alegre, 2001; Armas & Teruel, 2005). Few are known from southern Europe (Zavattari, 1957; DeMatos, 1978) and only one from Southeast Asia and the Pacific (Simon, 1877; Yamasaki *et al.*, 2018). Half the families occur in southern Africa, to which four are endemic, and 25% of the species occur in Namibia and South Africa, the world’s richest countries for solifuges (Lawrence, 1955; Wharton, 1981; Harvey, 2003a).

The solifuge groundplan has barely changed since the Carboniferous (Petrunkévitch, 1913; Selden & Dunlop,

1998). Although most solifuges are superficially similar in overall appearance, their morphology reflecting an errant, hunting lifestyle, several predominantly fossorial taxa, e.g., the peculiar ‘mole solifuges’ (*Hexisopus* Karsch, 1879) from southern Africa, are compact and highly modified for ‘swimming’ through sand (Lamoral, 1972, 1973). Some solifuges are specialized for life on shifting sand dunes and display ecomorphological adaptations to this ultrapsammophilous habitat whereas others are lithophilous, inhabiting rocky scree-slopes (Lawrence, 1966a, 1967, 1972; Wharton, 1981; Griffin, 1990), or termitophilous, inhabiting termite nests (Lawrence, 1963, 1968).

Although solifuges occur primarily in tropical and subtropical semi-arid to hyperarid ecosystems (e.g., deserts and savannas), they have been recorded from the seashore to 5000 m in the Andes (Delle Cave, 1977; Maury, 1982a). One Southeast Asian species, *Dinorhax rostrumpsittaci* (Simon, 1877), inhabits forests (Yamasaki *et al.*, 2018). Unlike other arachnid orders, all of which include cavernicolous species, solifuges do not occur in caves (Harvey, 2003a). Solifuges are subjected to high diurnal temperatures, low nocturnal temperatures, and low relative humidity in the arid regions they usually inhabit (Cloudsley-Thompson, 1977). Many epigeal desert solifuges construct burrows which they occupy for up to nine months in a state of diapause (Cloudsley-Thompson, 1961a, 1961b; Muma, 1966a). Solifuges have high metabolic rates (Punzo, 1998b) and are voracious predators (Bolwig, 1952; Muma, 1966b; Gore & Cushing, 1980; Polis & McCormick, 1986; Dean & Milton, 1991; Punzo, 1993, 1994a, 1995; Mukherjee, 1999). Like other arachnids, large solifuges will capture mice, lizards, and amphibians (Cloudsley-Thompson, 1977; Banta & Marer, 1972). Unlike most other arachnids, however, solifuges are active, cursorial predators. Their respiratory system consists entirely of tracheae and is comparable in complexity and

function to that of insects (Nogge, 1976; Sláma, 1995; Lighton & Fielden, 1996). As in insects, gaseous exchange is discontinuous. Solifuges inhale and exhale through spiracles—one pair between the second and third pair of legs, two pairs on opisthosomal segments three and four, and a single spiracle on the fifth opisthosomal segment. Air sacs are attached to the branching tracheae, with tracheoles penetrating the epithelia of internal organs. Hemocyanin, a respiratory pigment common in the hemolymph of many arthropods, is absent.

Courtship and mating have been observed in five solifuge families (Punzo, 1998a; Bird *et al.*, 2015; Peretti *et al.*, 2021). Upon being approached by a male, a receptive female often becomes catatonic. Males of some species contact the female using the pedipalps, opening the female genital operculum with the chelicerae. In one family, the seminal fluid is deposited directly onto the female genital aperture and kneaded into it with chewing movements of the chelicerae whereas, in others, a sperm package is deposited onto the substrate or the dorsal surface of the female before being transferred to the female genital aperture with the chelicerae. Whereas most solifuges are univoltine, a few species are bivoltine. The female digs a burrow, into which she lays 50–200 eggs and, in some species, guards them until they hatch. Solifuges undergo several stages including postembryo, nine or ten nymphal instars, and adult.

Solifuges are the dominant predatory arthropods in arid ecosystems and extreme xeric environments with little vegetation (rock or sand deserts) (Muma, 1974, 1975, 1979, 1980a, 1980b; Polis & McCormick, 1986; Griffin, 1990; Punzo, 1994b, 1994c) and represent important prey for the vertebrates of such habitats (Dial, 1978; Clark *et al.*, 1982; Punzo, 1998a). Solifuges are bioindicators for the health of desert environments, their disappearance signalling habitat degradation (Muma, 1963; Allred &

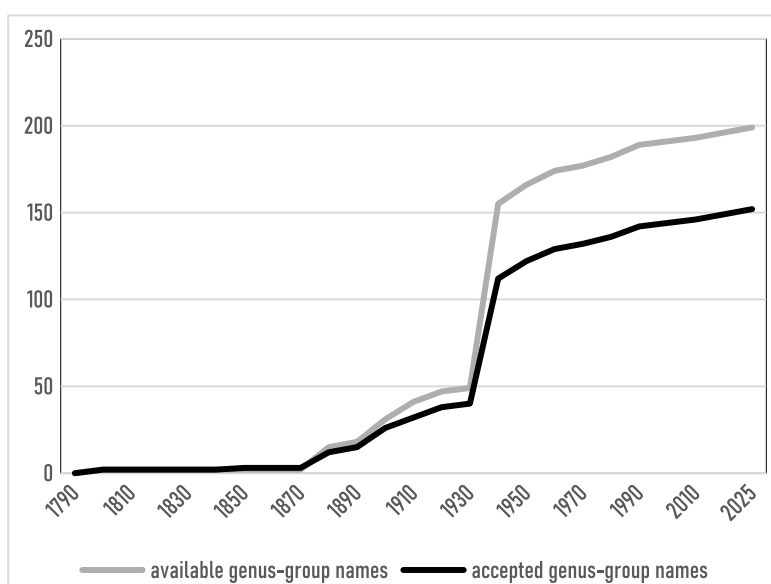


FIGURE 1. Cumulative number of available and accepted genus-group names in the Order Solifugae Sundevall, 1833 by decade.

Muma, 1971; Allred, 1975; Brookhart & Brantley, 2000). Many solifuge species appear to be habitat-specific and range-restricted, exacerbating their risk of extinction due to human activities.

TABLE 1. Current classification of the Order Solifugae Sundevall, 1833

Order Solifugae Sundevall, 1833
Family † Protosolpugidae Petrunkevitch, 1953
† Protosolpuga Petrunkevitch, 1913
Suborder Australosolifugae Kulkarni <i>et al.</i> , 2023
Family Ammotrechidae Roewer, 1934
† Haplodontus Poinar & Santiago-Blay, 1989;
Innesa Roewer, 1934
Subfamily Ammotrechinae Roewer, 1934
Ammotrecha Banks, 1900; Ammotrechella
Roewer, 1934; Ammotrechesta Roewer, 1934;
Ammotrechinus Roewer, 1934; Ammotrechula
Roewer, 1934; Antillotrecha Armas, 1994;
Campostrecha Mello-Leitão, 1937; Chileotrecha
Maury, 1987; Eutrecha Maury, 1982b;
Mummuciona Roewer, 1934; Neocleobis
Roewer, 1934; Sedna Muma, 1971; Xenotrecha
Maury, 1982b
Subfamily Mortolinae Mello-Leitão, 1938a
Chinchippus Chamberlin, 1920; Dasycleobis
Mello-Leitão, 1940; Pseudocleobis Pocock,
1900a
Subfamily Nothopuginae Maury, 1976
Cuyanopuga Iuri, in Iuri <i>et al.</i> , 2021; Nothopuga
Maury, 1976; Titanopuga Iuri, in Iuri <i>et al.</i> , 2021
Subfamily Oltacolinae Roewer, 1934
Oltacola Roewer, 1934
Subfamily Saronominae Roewer, 1934
Branchia Muma, 1951; Procleobis Kraepelin,
1899; Saronomus Kraepelin, 1900
Family Ceromidae Roewer, 1933
Ceroma Karsch, 1885; Ceromella Roewer, 1933;
† Cratosolpuga Selden, in Selden & Shear, 1996;
Toreus Purcell, 1903
Family Daesiidae Kraepelin, 1899
Ammotrechelid Roewer, 1934; Ceratobiton Delle
Cave & Simonetta, 1971; † Eognosippus Dunlop,
Erdek, Bartel, 2023; Gluiella Caporiacco, 1948;
† Palaeoblossia Dunlop, Wunderlich & Poinar,
2004; Syndaesia Maury, 1980; Valdesia Maury,
1981
Subfamily Daesiinae Kraepelin, 1899
Bitonissus Roewer, 1933, stat. rev.; Biton Karsch,
1880; Bitonota Roewer, 1933; Bitonupa Roewer,
1933; Blossia Simon, 1880; Blossiana Roewer,
1933; Daesiola Roewer, 1933; Eberlanzia
Roewer, 1941

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TABLE 1. (Continued)

Subfamily Gluiiinae Roewer, 1933
Gluvia C.L. Koch, 1842; Gluiola Roewer, 1933;
Haarlovina Lawrence, 1956; Mumaella Harvey,
2002b
Subfamily Gluiopsinae Roewer, 1933
Gluiopsida Roewer, 1933; Gluiopsilla Roewer,
1933; Gluiopsis Kraepelin, 1899; Gluiopsona
Roewer, 1933
Subfamily Gnosippinae Roewer, 1933
Gnosippus Karsch, 1880; Hemiblossia Kraepelin,
1899; Hemiblossiola Roewer, 1933; Tarabulida
Roewer, 1933
Subfamily Triditarsinae Roewer, 1933
Hodeidania Roewer, 1933; Triditarsula Roewer,
1933; Triditarsus Roewer, 1933
Family Hexisopodidae Pocock, 1897a
Chelypus Purcell, 1902; Hexisopus Karsch, 1879
Family Lipophagidae Wharton, 1981
Bdellophaga Wharton, 1981; Lipophaga Purcell,
1903; Trichotoma Lawrence, 1968
Family Melanoblossiidae Roewer, 1933
Daesiella Hewitt, 1934; Lawrencega Roewer,
1933; Melanoblossia Purcell, 1903; Microblossia
Roewer, 1941; Unguiblossia Roewer, 1941
Family Mummuciidae Roewer, 1934
Cordobulgida Mello-Leitão, 1938a; Curanahuel
Botero-Trujillo, in Botero-Trujillo <i>et al.</i> , 2019;
Gaucha Mello-Leitão, 1924; Mummucia Simon,
1879a; Mummucina Roewer, 1934; Mummucipes
Roewer, 1934; Uspallata Mello-Leitão, 1938a;
Vempironiella Botero-Trujillo, 2016
Family Namibesiidae Wharton, 1981
Namibesia Lawrence, 1962
Family Solpugidae Leach, 1816
Subfamily Ferrandiinae Roewer, 1933
Ferrandia Roewer, 1933
Subfamily Solpuginae Leach, 1814
Metasolpuga Roewer, 1934; Oparba Roewer,
1934; Oparbella Roewer, 1934; Prosolpuga
Roewer, 1934; Solpuga Lichtenstein, 1796;
Solpugassa Roewer, 1933; Solpugeira Roewer,
1933; Solpugella Roewer, 1933; Solpugema
Roewer, 1933; Solpugiba Roewer, 1934;
Solpugista Roewer, 1934; Solpugisticella Turk,
1960; Solpuguna Roewer, 1933; Solpugyla
Roewer, 1933; Zeria Simon, 1879a; Zeriassa
Pocock, 1897a
Suborder Boreosolifugae Kulkarni <i>et al.</i> , 2023
† Cushingia Dunlop, Bird, Brookhart & Bechly,
2015
Family Dinorhaxidae Roewer, 1933
Dinorhax Simon, 1879a

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TABLE 1. (Continued)

Family Eremobatidae Kraepelin, 1901
Subfamily Eremobatinae Kraepelin, 1901
<i>Eremobates</i> Banks, 1900; <i>Eremocosta</i> Roewer, 1934; <i>Eremorhax</i> Roewer, 1934; <i>Eremothera</i> Muma, 1951; <i>Horribates</i> Muma, 1962
Subfamily Therobatinae Muma, 1951
<i>Chanbria</i> Muma, 1951; <i>Eremochelis</i> Roewer, 1934; <i>Hemerotrecha</i> Banks, 1903
Family Galeodidae Sundevall, 1833
<i>Galeodes</i> Olivier, 1791; <i>Galeodopsis</i> Birula, 1903; <i>Galeodumus</i> Roewer, 1960; <i>Gluviema</i> Caporiacco, 1937; <i>Othoes</i> Hirst, 1911; <i>Paragaleodes</i> Kraepelin, 1899; <i>Paragaleodiscus</i> Birula, 1941; <i>Roeweriscus</i> Birula, 1937; <i>Zombis</i> Simon, 1882
Family Gylippidae Roewer, 1933
<i>Acanthogylippus</i> Birula, 1913; <i>Anoplogylippus</i> Birula, 1913, stat. nov.; <i>Gylippus</i> Simon, 1879a; <i>Hemigylippus</i> Birula, 1913, stat. nov.; <i>Paragylippus</i> Roewer, 1933, stat. rev.
Family Karschiidae Kraepelin, 1899
<i>Barrus</i> Simon, 1880; <i>Barrussus</i> Roewer, 1928; <i>Eusimonia</i> Kraepelin, 1899; <i>Karschia</i> Walter, 1889; <i>Rhinokarschia</i> Birula, 1935a, stat. nov.
Family Rhagodidae Pocock, 1897a
<i>Rhagodalma</i> Roewer, 1933; <i>Rhagodax</i> Roewer, 1941; <i>Rhagodeca</i> Roewer, 1933; <i>Rhagodelbus</i> Roewer, 1941; <i>Rhagoderma</i> Roewer, 1933; <i>Rhagoderus</i> Roewer, 1933; <i>Rhagodes</i> Pocock, 1897a; <i>Rhagodessa</i> Roewer, 1933; <i>Rhagodeya</i> Roewer, 1933; <i>Rhagodia</i> Roewer, 1933; <i>Rhagodima</i> Roewer, 1933; <i>Rhagodinus</i> Roewer, 1933; <i>Rhagodippa</i> Roewer, 1933; <i>Rhagodira</i> Roewer, 1933; <i>Rhagodista</i> Kraus, 1959; <i>Rhagoditta</i> Roewer, 1933; <i>Rhagodixa</i> Roewer, 1933; <i>Rhagodoca</i> Roewer, 1933; <i>Rhagodolus</i> Roewer, 1933; <i>Rhagodomma</i> Roewer, 1933; <i>Rhagodopa</i> Roewer, 1933; <i>Rhagodorimus</i> Turk, 1948; <i>Rhagodorta</i> Roewer, 1933; <i>Rhagodospus</i> Roewer, 1941; <i>Rhagoduja</i> Roewer, 1933; <i>Rhagodula</i> Roewer, 1941; <i>Rhagoduna</i> Roewer, 1933

The Order Solifugae Sundevall, 1833, the sixth most diverse order of arachnids in number of families, genera and species (Harvey, 2002a), currently comprises two extant suborders as well as an extinct monotypic family, †Protosolpugidae (Table 1). Suborder Australosolifugae Kulkarni *et al.*, 2023 accommodates 91 extant genera (including one subgenus elevated to the rank of genus herein) and four extinct genera in nine families: Ammotrechidae Roewer, 1934; Ceromidae Roewer, 1933; Daesiidae Kraepelin, 1899; Hexisopodidae Pocock, 1897a; Lipophagidae Wharton, 1981; Melanoblossiidae Roewer, 1933; Mummuciidae Roewer, 1934; Namibesiidae Wharton, 1981; and Solpugidae Leach,

1816. Ammotrechidae comprises five extant subfamilies, Ammotrechinae Roewer, 1934, with 13 extant genera, Mortolinae Mello-Leitão, 1938a, Nothopuginae Maury, 1976 and Saronominae Roewer, 1934, each with three extant genera, and Oltacolinae Roewer, 1934, with an extant genus; an extant genus *incertae sedis*; and an extinct genus *incertae sedis*. Ceromidae comprises three extant genera and an extinct genus. Daesiidae comprises five extant subfamilies, Daesiinae Kraepelin, 1899, with eight extant genera, Gluviinae Roewer, 1933, Gluviopsinae Roewer, 1933, and Gnosippinae Roewer, 1933, each with four extant genera, and Triditarsinae Roewer, 1933, with three extant genera; five extant genera *incertae sedis*; and two extinct genera *incertae sedis*. Hexisopodidae, Lipophagidae, Melanoblossiidae, and Mummuciidae comprise two, three, five, and eight extant genera, respectively, whereas Namibesiidae is monotypic. Solpugidae comprises two extant subfamilies, Ferrandiinae Roewer, 1933, with an extant genus, and Solpuginae Leach, 1814, with 16 extant genera.

Suborder Boreosolifugae Kulkarni *et al.*, 2023 accommodates an extinct genus *incertae sedis*, and 55 extant genera (including four subgenera elevated to the rank of genus herein) in six families: Dinorhaxidae Roewer, 1933; Eremobatidae Kraepelin, 1901; Galeodidae Sundevall, 1833; Gylippidae Roewer, 1933; Karschiidae Kraepelin, 1899; and Rhagodidae Pocock, 1897a. Eremobatidae comprises two extant subfamilies, Eremobatinae Kraepelin, 1901, with five extant genera, and Therobatinae Muma, 1951, with three extant genera. Galeodidae and Rhagodidae comprise nine and 27 extant genera, respectively, Gylippidae and Karschiidae each comprise five extant genera, and Dinorhaxidae is monotypic.

Kraepelin (1901) presented the first comprehensive taxonomic treatment of all extant solifuge taxa known at the time, updated and extended over thirty years later by Roewer (1932, 1933, 1934, 1941) and Birula (1938). The next update was provided by Millot & Vachon (1949). Half a century later, Harvey (2003a) presented the first catalog of the families, genera and species of the order. A list of suprageneric taxa with counts of genera and species was provided by Prendini (2011). The present contribution updates species counts from the World Solifugae Catalog (2025) through the end of 2025.

There are 199 genus-group names available in Solifugae by the end of 2025. Of these, 152 refer to currently accepted extant genera (146, including five subgenera elevated to the rank of genus) and extinct genera (6). A new generic synonym, presented herein, raises to 47 the number of genus-group names in synonymy. Thirty (20%) of the currently accepted genus-group names were described since 1950 (Fig. 1). The order includes 1202 currently accepted species-group names (1196 extant species, including 37 extant subspecies elevated to the rank of species herein, and six extinct species) and 16 *nomina dubia*.

Although recent phylogenomic analyses of Solifugae contributed structure at the family level and above (Kulkarni *et al.*, 2023, 2024), the suprageneric phylogeny

and classification of the order remain poorly understood. Many genera, e.g., in the families Eremobatidae, Galeodidae, Rhagodidae and Solpugidae, are monotypic or narrowly defined, and several appear to be paraphyletic (e.g., Cushing *et al.*, 2015).

Acknowledgements

This list was developed from the World Solifugae Catalog (<https://wac.nmbe.ch/order/solifugae/6>), in turn based on the catalogs of Harvey (2003a, 2013; <http://www.museum.wa.gov.au/catalogues/solifuges>) and the list of fossil spiders and their relatives by Dunlop *et al.* (2023). The Biodiversity Heritage Library (<https://www.biodiversitylibrary.org>), the Global Biodiversity Information Facility (GBIF) (<https://www.gbif.org>), the Interim Register of Nonmarine and Marine Genera (<https://www.irmng.org>), and the Paleobiology Database (Uhen *et al.*, 2023; <https://paleobiodb.org>) were also consulted. The author's research on minor arachnid orders was supported by grants EAR 0228699, DEB 0640219, and DEB 2003382, from the National Science Foundation, U.S.A. The author thanks Zhi-Qiang Zhang for the invitation to submit this contribution, and Tharina Bird, Ricardo Botero-Trujillo and two anonymous reviewers for comments on earlier drafts of the manuscript.

Order **Solifugae** Sundevall, 1833
(2 extant suborders, 1 extinct family)

Family †**Protosolpugidae** Petrunkevitch, 1953
(1 extinct genus)

†**Protosolpuga** Petrunkevitch, 1913 [1 extinct species]. Type species: †*Protosolpuga carbonaria* Petrunkevitch, 1913, by original designation.

Suborder **Australosolifugae** Kulkarni *et al.*, 2023
(9 extant families)

Family **Ammotrechidae** Roewer, 1934
(5 extant subfamilies, 1 extant genus *incertae sedis*,
1 extinct genus *incertae sedis*)

Incertain sedis

†**Haplodontus** Poinar & Santiago-Blay, 1989 [1 extinct species]. Type species: †*Haplodontus proterus* Poinar & Santiago-Blay, 1989, by original designation.

Innesa Roewer, 1934 [1 extant species]. Type species: *Hemiblossia vittata* Pocock, 1902a = *Innesa vittata* (Pocock, 1902a), by original designation.

Subfamily **Ammotrechinae** Roewer, 1934
(13 extant genera)

Ammotrecha Banks, 1900 [10 extant species]. Type species: *Galeodes limbata* Lucas, 1835a = *Ammotrecha limbata* (Lucas, 1835a), by subsequent designation (Pocock, 1902a; see Harvey, 2001). [Replacement name for *Cleobis* Simon, 1879a.]

Cleobis Simon, 1879a. Type species: *Galeodes limbata* Lucas, 1835a = *Ammotrecha limbata* (Lucas, 1835a), by subsequent designation (Pocock, 1902a; see Harvey, 2001). [Junior homonym of *Cleobis* Dana, 1847 (Mollusca).]

Ammotrechella Roewer, 1934 [17 extant species]. Type species: *Gluvia geniculata* C.L. Koch, 1842 = *Ammotrechella geniculata* (C.L. Koch, 1842), by original designation.

Ammotrechona Roewer, 1934. Type species: *Galeodes cubae* Lucas, 1835b = *Ammotrechella cubae* (Lucas, 1835b), by original designation. Synonymized by Armas (2004).

Ammotrechesta Roewer, 1934 [5 extant species]. Type species: *Ammotrechesta schlueteri* Roewer, 1934, by original designation.

Ammotrechinus Roewer, 1934 [1 extant species]. Type species: *Solpuga gryllipes* Gervais, 1842 = *Ammotrechinus gryllipes* (Gervais, 1842), by original designation.

Ammotrechula Roewer, 1934 [12 extant species]. Type species: *Cleobis saltatrix* Simon, 1879a = *Ammotrechula saltatrix* (Simon, 1879a), by original designation.

Antillotrecha Armas, 1994 [4 extant species]. Type species: *Antillotrecha fraterna* Armas, 1994, by original designation.

Campostrecha Mello-Leitão, 1937 [1 extant species]. Type species: *Campostrecha felisdens* Mello-Leitão, 1937, by original designation.

Chileotrecha Maury, 1987 [3 extant species]. Type species: *Chileotrecha atacamensis* Maury, 1987, by original designation.

Eutreacha Maury, 1982b [3 extant species]. Type species: *Eutreacha longirostris* Maury, 1982b, by original designation.

Mummuciona Roewer, 1934 [1 extant species]. Type species: *Mummuciona simoni* Roewer, 1934, by original designation.

Neocleobis Roewer, 1934 [1 extant species]. Type species: *Ammotrecha solitaria* Banks, 1902 = *Neocleobis solitaria* (Banks, 1902), by original designation.

Sedna Muma, 1971 [1 extant species]. Type species: *Sedna pirata* Muma, 1971, by original designation.

Xenotrecha Maury, 1982b [1 extant species]. Type species: *Cleobis huebneri* Kraepelin, 1899 = *Cleobis huebneri* (Kraepelin, 1899), by original designation.

Subfamily **Mortolinae** Mello-Leitão, 1938a
(3 extant genera)

Chinchippus Chamberlin, 1920 [2 extant species]. Type species: *Chinchippus peruvianus* Chamberlin, 1920, by original designation.

Dasycleobis Mello-Leitão, 1940 [1 extant species]. Type species: *Dasycleobis crinitus* Mello-Leitão, 1940, by original designation.

Pseudocleobis Pocock, 1900a [31 extant species, 2 *nomina dubia*]. Type species: *Cleobis andinus* Pocock, 1899b = *Pseudocleobis andinus* (Pocock, 1899b), by original designation.

Tetracleobis Roewer, 1934. Type species: *Pseudocleobis hirschmanni* Kraepelin, 1911, by original designation. Synonymized by Maury (1976).

Mortola Mello-Leitão, 1938a. Type species: *Mortola mortola* Mello-Leitão, 1938a = *Pseudocleobis mortola* (Mello-Leitão, 1938a), by original designation. Synonymized by Iuri *et al.* (2025).

Subfamily **Nothopuginae** Maury, 1976
(3 extant genera)

Cuyanopuga Iuri, in Iuri *et al.*, 2021 [1 extant species]. Type species: *Cuyanopuga bilobata* Iuri, in Iuri *et al.*, 2021, by original designation.

Nothopuga Maury, 1976 [3 extant species]. Type species: *Nothopuga lobera* Maury, 1976, by original designation.

Titanopuga Iuri, in Iuri *et al.*, 2021 [1 extant species]. Type species: *Titanopuga salinarum* Iuri, in Iuri *et al.*, 2021, by original designation.

Subfamily **Oltacolinae** Roewer, 1934
(1 extant genus)

Oltacola Roewer, 1934 [4 extant species]. Type species: *Oltacola gomezi* Roewer, 1934, by original designation.

Subfamily **Saronominae** Roewer, 1934
(3 extant genera)

Branchia Muma, 1951 [3 extant species]. Type species: *Branchia angustus* Muma, 1951, by original designation.

Procleobis Kraepelin, 1899 [1 extant species]. Type species: *Procleobis burmeisteri* Kraepelin, 1899 = *Gluvia patagonicus* Holmberg, 1876 = *Procleobis patagonicus* (Holmberg, 1876), by monotypy.

Lelongia Mello-Leitão, 1938a. Type species: *Lelongia herminia* Mello-Leitão, 1938a = *Procleobis patagonicus* (Holmberg, 1876), by original designation. [Junior homonym of †*Lelongia* Kraglievich, 1932 (Mammalia: Rodentia).] Synonymized by Maury (1977).

Saronomoides Mello-Leitão, 1938b. Type species: *Saronomoides pampeanus* Mello-Leitão, 1938b = *Procleobis patagonicus* (Holmberg, 1876), by original designation. Synonymized by Maury (1977).

Patagonolpuga Mello-Leitão, 1938b. Type species: *Patagonolpuga hyltoni* Mello-Leitão, 1938b = *Procleobis patagonicus* (Holmberg, 1876), by original designation. Synonymized by Maury (1977).

Saronomus Kraepelin, 1900 [1 extant species]. Type species: *Sarophorus capensis* Kraepelin, 1899 = *Saronomus capensis* (Kraepelin, 1899), by monotypy. [Replacement name for *Sarophorus* Kraepelin, 1899.]

Sarophorus Kraepelin, 1899. Type species: *Sarophorus capensis* Kraepelin, 1899 = *Saronomus capensis* (Kraepelin, 1899), by monotypy. [Junior homonym of *Sarophorus* Erichson, 1847 (Insecta: Coleoptera).]

Family **Ceromidae** Roewer, 1933
(3 extant genera, 1 extinct genus)

Ceroma Karsch, 1885 [16 extant species]. Type species: *Ceroma ornatum* Karsch, 1885, by monotypy.

Ceromella Roewer, 1933 [3 extant species]. Type species: *Ceroma focki* Kraepelin, 1914 = *Ceromella focki* (Kraepelin, 1914), by original designation.

†**Cratosolpuga** Selden, in Selden & Shear, 1996 [1 extinct species]. Type species: †*Cratosolpuga wunderlichi* Selden, in Selden & Shear, 1996, by original designation.

Toreus Purcell, 1903 [1 extant species]. Type species: *Ceroma capense* Purcell, 1899 = *Toreus capensis* (Purcell, 1899), by original designation.

Family **Daesiidae** Kraepelin, 1899
(5 extant subfamilies, 5 extant genera *incertae sedis*,
2 extinct genera *incertae sedis*)

Incertainae sedis

Ammotrechelis Roewer, 1934 [1 species]. Type species: *Ammotrechelis goetschi* Roewer, 1934, by original designation.

Amacata Muma, 1971. Type species: *Amacata penai* Muma, 1971 = *Ammotrechelis goetschi* Roewer, 1934, by original designation. Synonymized by Maury (1987).

Ceratobiton Delle Cave & Simonetta, 1971 [1 extant species]. Type species: *Gnosippus styloceros* Kraepelin, 1899 = *Ceratobiton styloceros* (Kraepelin, 1899), by original designation.

†**Eognosippus** Dunlop, Erdek, Bartel, 2023 [1 extinct species]. Type species: †*Eognosippus fahrenheitiana* Dunlop, Erdek, Bartel, 2023, by original designation.

Gluiella Caporiacco, 1948 [1 species]. Type species: *Gluiella rhodiensis* Caporiacco, 1948, by monotypy.

†**Palaeoblossia** Dunlop, Wunderlich & Poinar, 2004 [1 extinct species]. Type species: †*Palaeoblossia groehni* Dunlop, Wunderlich & Poinar, 2004, by original designation.

Syndaesia Maury, 1980 [1 extant species]. Type species: *Syndaesia mastix* Maury, 1980, by original designation.

Valdesia Maury, 1981 [1 extant species]. Type species: *Valdesia simplex* Maury, 1981, by original designation.

Subfamily **Daesiinae** Kraepelin, 1899¹
(8 extant genera)

Bitonissus Roewer, 1933, stat. rev. [2 extant species]. Type species: *Bitonissus xerxes* Roewer, 1933, by

original designation. [This genus was originally created to accommodate *Bitonissus xerxes* Roewer, 1933 but was relegated to a subgenus of *Biton* Karsch, 1880 by Birula (1936). It is hereby returned to the rank of genus and, in addition to the type species, accommodates *Bitonissus schelkovnikovi* (Birula, 1936).]

Biton Karsch, 1880 [72 extant species, 1 *nomen dubium*]. Type species: *Biton ehrenbergii* Karsch, 1880 = *Biton (Biton) ehrenbergii* Karsch, 1880, by original designation. [One subspecies is hereby returned to its former rank of species and five subspecies are newly elevated to the rank of species (Appendix 1).]

Daesia Karsch, 1880. Type species: *Glivia praecox* C.L. Koch, 1842 = *Biton praecox* (C.L. Koch, 1842), by original designation. Synonymized by Simon (1882).

Broomiella Pocock, 1902b. Type species: *Broomiella lineata* Pocock, 1902b = *Biton lineatus* (Pocock, 1902b), by original designation. Synonymized by Lawrence (1972).

Bitonella Roewer, 1933. Type species: *Daesia hottentotta* Kraepelin, 1899 = *Biton hottentottus* (Kraepelin, 1899), by original designation. Synonymized by Lawrence (1955).

Daesiella Caporiacco, 1937. Type species: *Daesiella rossica* Birula, 1905a = *Biton rossicus* (Birula, 1905a), by subsequent designation (Harvey, 2003a). [Junior homonym of *Daesiella* Hewitt, 1934.] Synonymized by Delle Cave & Simonetta (1971).

Bitonota Roewer, 1933 [1 extant species]. Type species: *Bitonota kraepelini* Roewer, 1933, by original designation. [Treated as a subgenus or a synonym of *Daesia* Karsch, 1880 by Birula (1938).]

Bitonupa Roewer, 1933 [1 extant species]. Type species: *Bitonupa kraepelini* Roewer, 1933, by original designation. [Treated as a subgenus or a synonym of *Daesia* Karsch, 1880 by Birula (1938).]

Blossia Simon, 1880 [67 extant species]. Type species: *Blossia spinosa* Simon, 1880, by monotypy. [Eight subspecies are hereby elevated to the rank of species (Appendix 1).]

Blossiola Roewer, 1933. Type species: *Blossia unguicornis* Purcell, 1902, by original designation. Synonymized by Wharton (1981).

Blossiana Roewer, 1933 [1 species]. Type species: *Blossiana wachei* Roewer, 1933, by original designation.

1 Harvey (2003a) listed Blossiinae Roewer, 1933 as a valid subfamily although Wharton (1981) synonymized it with Daesiidae Kraepelin, 1899, transferring *Biton* Karsch, 1880, *Blossia* Simon, 1880 and *Eberlanzia* Roewer, 1941 to the nominotypical subfamily. Wharton (1981) suggested that Gluviopsinae Roewer, 1933 and Triditarsinae Roewer, 1933 should probably also be considered synonyms of Daesiidae.

Daesiola Roewer, 1933 [1 extant species]. Type species: *Daesia zarudnyi* Birula, 1905a = *Daesiola zarudnyi* (Birula, 1905a), by original designation. [Treated as a subgenus or a synonym of *Daesia* Karsch, 1880 by Birula (1938).]

Eberlanzia Roewer, 1941 [2 extant species]. Type species: *Eberlanzia flava* Roewer, 1941, by monotypy.

Subfamily **Gluviinae** Roewer, 1933
(4 extant genera)

Gluvia C.L. Koch, 1842 [2 extant species, 1 *nomen dubium*]. Type species: *Gluvia striolata* C.L. Koch, 1842 = *Galeodes dorsalis* Latreille, 1817 = *Gluvia dorsalis* (Latreille, 1817), by subsequent designation (Simon, 1879a).

Paracleobis Pocock, 1895a. Type species: *Galeodes dorsalis* Latreille, 1817 = *Gluvia dorsalis* (Latreille, 1817), by original designation. Synonymized by Kraepelin (1901).

Gluviola Roewer, 1933 [1 extant species]. Type species: *Daesia rossica armata* Birula, 1905b = *Gluviola armata* (Birula, 1905b), by original designation.

Haarlovina Lawrence, 1956 [1 extant species]. Type species: *Haarlovina nielsi* Lawrence, 1956, by monotypy.

Mumaella Harvey, 2002b [1 extant species]. Type species: *Gluviella robusta* Lawrence, 1956 = *Mumaella robusta* (Lawrence, 1956), by monotypy. [Replacement name for *Gluviella* Lawrence, 1956 (Solifugae).]

Gluviella Lawrence, 1956. Type species: *Gluviella robusta* Lawrence, 1956 = *Mumaella robusta* (Lawrence, 1956), by monotypy. [Junior homonym of *Gluviella* Caporiacco, 1948].

Subfamily **Gluviopsinae** Roewer, 1933
(4 extant genera)

Gluviopsida Roewer, 1933 [1 extant species]. Type species: *Gluviopsida taurica* Roewer, 1933, by original designation. [Treated as a subgenus or a synonym of *Gluviopsis* Kraepelin, 1899 by Birula (1938).]

Gluviopsilla Roewer, 1933 [1 extant species]. Type species: *Gluviopsis rufescens discolor* Kraepelin, 1899 = *Gluviopsilla discolor* (Kraepelin, 1899), by original designation. [Treated as a subgenus or a synonym of *Gluviopsis* Kraepelin, 1899 by Birula (1938).]

Gluviopsis Kraepelin, 1899 [12 extant species]. Type species: *Blossia rufescens* Pocock, 1897a = *Gluviopsis rufescens* (Pocock, 1897a), by monotypy. [One subspecies is hereby elevated to the rank of species (Appendix 1).]

Tarablossia Caporiacco, 1944. Type species: *Tarablossia nigripalpis* Caporiacco, 1944 = *Paracleobis nigripalpis* Pocock, 1897b = *Gluviopsis nigripalpis* (Pocock, 1897b), by monotypy. Synonymized by Delle Cave & Simonetta (1971).

Gluviopsona Roewer, 1933 [3 extant species]. Type species: *Gluviopsis rufescens persica* Birula, 1905a = *Gluviopsona persica* (Birula, 1905a), by original designation. [Treated as a subgenus or a synonym of *Gluviopsis* Kraepelin, 1899 by Birula (1938).]

Subfamily **Gnosippinae** Roewer, 1933
(4 extant genera)

Gnosippus Karsch, 1880 [5 extant species]. Type species: *Gnosippus klunzingeri* Karsch, 1880, by original designation. [One subspecies is hereby elevated to the rank of species (Appendix 1).]

Hemiblossia Kraepelin, 1899 [18 extant species]. Type species: *Hemiblossia bouvieri* Kraepelin, 1899, by monotypy.

Parablossia Roewer, 1933. Type species: *Hemiblossia kalaharica* Kraepelin, 1908, by original designation. Synonymized by Wharton (1981).

Heteroblossia Roewer, 1933. Type species: *Hemiblossia oneili* Purcell, 1902, by original designation. Synonymized by Wharton (1981).

Hemiblossiola Roewer, 1933 [1 extant species]. Type species: *Hemiblossiola kraepelini* Roewer, 1933, by original designation.

Tarabulida Roewer, 1933 [3 extant species]. Type species: *Tarabulida ephippiata* Roewer, 1933, by original designation.

Subfamily **Triditarsinae** Roewer, 1933
(3 extant genera)

Hodeidania Roewer, 1933 [1 extant species]. Type species: *Hodeidania bruunipalpis* Roewer, 1933, by original designation.

Triditarsula Roewer, 1933 [1 extant species]. Type species: *Triditarsula anomala* Roewer, 1933, by original designation.

Triditarsus Roewer, 1933 [2 extant species]. Type species: *Triditarsus tibetanus* Roewer, 1933, by original designation.

Family **Hexisopodidae** Pocock, 1897a
(2 extant genera)

Chelypus Purcell, 1902 [8 extant species]. Type species: *Chelypus barberi* Purcell, 1902, by monotypy.

Siloanea Roewer, 1933. Type species: *Siloanea macroceras* Roewer, 1933 = *Chelypus macroceras* (Roewer, 1933), by original designation. Synonymized by Wharton (1981).

Hexisopus Karsch, 1879 [15 extant species]. Type species: *Aellopus lanata* C.L. Koch, 1842 = *Hexisopus lanatus* (C.L. Koch, 1842), by monotypy. [Replacement name for *Aellopus* C.L. Koch, 1842.]

Aellopus C.L. Koch, 1842. Type species: *Aellopus lanata* C.L. Koch, 1842 = *Hexisopus lanatus* (C.L. Koch, 1842), by monotypy. [Junior homonym of *Aellopus* Wolff, 1802 (Insecta: Hemiptera).]

Mossamedessa Roewer, 1932. Type species: *Mossamedessa abnormis* Roewer, 1932 = *Hexisopus abnormis* (Roewer, 1932), by monotypy. Synonymized by Wharton (1981).

Family **Lipophagidae** Wharton, 1981
(3 extant genera)

Bdellophaga Wharton, 1981 [1 extant species]. Type species: *Bdellophaga angulata* Wharton, 1981, by original designation.

Lipophaga Purcell, 1903 [3 species]. Type species: *Lipophaga trispinosa* Purcell, 1903, by original designation.

Pseudoblossia Kraepelin, 1908. Type species: *Pseudoblossia schultzei* Kraepelin, 1908 = *Lipophaga schultzei* (Kraepelin, 1908), by monotypy. Synonymized by Kraepelin (1914).

Trichotoma Lawrence, 1968 [3 extant species]. Type species: *Trichotoma brunnea* Lawrence, 1968, by original designation.

Family **Melanoblossiidae** Roewer, 1933
(5 extant genera)

Daesiella Hewitt, 1934 [1 extant species]. Type species: *Daesiella pluridens* Hewitt, 1934, by original designation.

Lawrencega Roewer, 1933 [7 extant species]. Type species: *Melanoblossia hewitti* Lawrence, 1929 = *Lawrencega hewitti* (Lawrence, 1929), by original designation.

Melanoblossia Purcell, 1903 [5 extant species]. Type species: *Melanoblossia braunsi* Purcell, 1903, by original designation.

Microblossia Roewer, 1941 [1 extant species]. Type species: *Microblossia eberlanzi* Roewer, 1941, by monotypy.

Unguiblossia Roewer, 1941 [2 extant species]. Type species: *Unguiblossia eberlanzi* Roewer, 1941, by monotypy.

Family **Mummuciidae** Roewer, 1934
(8 extant genera)

Cordobulgida Mello-Leitão, 1938a [1 extant species]. Type species: *Cordobulgida bruchi* Mello-Leitão, 1938a, by original designation.

Curanahuel Botero-Trujillo, in Botero-Trujillo *et al.*, 2019 [1 extant species]. Type species: *Curanahuel aconcagua* Botero-Trujillo, Lagos-Silnik & Fernández-Campón, 2019, by original designation.

Gaucha Mello-Leitão, 1924 as *Gaùcha* Mello-Leitão, 1924 [13 extant species]. Type species: *Gaucha fasciata* Mello-Leitão, 1924, by original designation.

Metacleobis Roewer, 1934. Type species: *Metacleobis fulvipes* Roewer, 1934 = *Gaucha fulvipes* (Roewer, 1934), by original designation. Synonymized by Botero-Trujillo *et al.* (2017).

Mummuciella Roewer, 1934. Type species: *Mummuciella simoni* Roewer, 1934 = *Gaucha fasciata* Mello-Leitão, 1924, by original designation. Synonymized by Mello-Leitão (1937).

Gauchella Mello-Leitão, 1937. Type species: *Gaucha stoeckeli* Roewer, 1934, by original designation. Synonymized by Botero-Trujillo *et al.* (2017).

Mummucia Simon, 1879a [5 extant species]. Type species: *Galeodes variegata* Gervais, 1849 = *Mummucia variegata* (Gervais, 1849), by monotypy.

Mummucina Roewer, 1934 [6 extant species]. Type species: *Mummucina titschacki* Roewer, 1934, by original designation.

Mummucipes Roewer, 1934 [1 extant species]. Type species: *Mummucipes paraguayensis* Roewer, 1934, by original designation.

Uspallata Mello-Leitão, 1938a [1 extant species]. Type species: *Uspallata pulchra* Mello-Leitão, 1938a, by original designation.

Vempironiella Botero-Trujillo, 2016 [1 extant species]. Type species: *Vempironiella aguilar* Botero-Trujillo, 2016, by original designation.

Family **Namibesiidae** Wharton, 1981
(1 extant genus)

Namibesia Lawrence, 1962 [1 extant species]. Type species: *Namibesia pallida* Lawrence, 1962, by original designation.

Family **Solpugidae** Leach, 1816
(2 extant subfamilies)

Subfamily **Ferrandiinae** Roewer, 1933
(1 extant genus)

Ferrandia Roewer, 1933 [4 extant species]. Type species: *Solpuga ferrandii* Kraepelin, 1899 = *Ferrandia ferrandii* (Kraepelin, 1899), by original designation.

Enea Roewer, 1933. Type species: *Enea birulae* Roewer, 1933 = *Ferrandia birulae* (Roewer, 1933), by original designation. [Junior homonym of *Enea* Walker, 1863 (Insecta: Lepidoptera).] Synonymized by Lawrence (1954).

Subfamily **Solpuginae** Leach, 1814
(16 extant genera)

Metasolpuga Roewer, 1934 [1 extant species]. Type species: *Solpuga picta* Kraepelin, 1899 = *Metasolpuga picta* (Kraepelin, 1899), by original designation.

Oparba Roewer, 1934 [4 extant species]. Type species: *Solpuga maroccana* Kraepelin, 1899 = *Oparba maroccana* (Kraepelin, 1899), by original designation.

Oparbica Roewer, 1934. Type species: *Oparbica togona* Roewer, 1934 = *Oparba togona* (Roewer, 1934), by original designation. Synonymized by Lawrence (1966b).

Oparbella Roewer, 1934 [7 extant species]. Type species: *Solpuga flavescens* C.L. Koch, 1842 = *Oparbella flavescens* (C.L. Koch, 1842), by original designation.

Oparbona Roewer, 1934. Type species: *Oparbona simoni* Roewer, 1934 = *Solpuga flavescens* C.L.

Koch, 1842 = *Oparbella flavescens* (C.L. Koch, 1842), by original designation. Synonymized by Panouse (1950).

Prosolpuga Roewer, 1934 [1 extant species]. Type species: *Solpuga schultzei* Kraepelin, 1908 = *Prosolpuga schultzei* (Kraepelin, 1908), by original designation.

Solpuga Lichtenstein, 1796 [36 extant species, 2 nomina dubia]. Type species: *Solpuga chelicornis* Lichtenstein, 1796 by subsequent designation (Pocock, 1897a). [Four subspecies are hereby elevated to the rank of species (Appendix 1).]

Gaetulia Simon, 1879a. Type species: *Galeodes setigera* Oliver, 1791 = *Solpuga chelicornis* Lichtenstein, 1796, by subsequent designation (Harvey, 2003a). [Junior homonym of *Gaetulia* Stål, 1864 (Insecta: Hemiptera).] Synonymized by Pocock (1897a).

Caerellia Simon, 1879b. Type species: *Galeodes setigera* Oliver, 1791 = *Solpuga chelicornis* Lichtenstein, 1796, by subsequent designation (Harvey, 2003a). [Replacement name for *Gaetulia* Simon, 1879a.]

Solpugopa Roewer, 1933. Type species: *Solpuga chelicornis* Lichtenstein, 1796, by original designation. Synonymized by Wharton (1981).

Solpugassa Roewer, 1933 [7 extant species]. Type species: *Solpuga furcifera* Kraepelin, 1899 = *Solpugassa furcifera* (Kraepelin, 1899), by original designation. [One subspecies is hereby elevated to the rank of species (Appendix 1).]

Solpugeira Roewer, 1933 [2 extant species]. Type species: *Solpuga fusciorufa* Schenkel, 1932 = *Solpuga fusciorufa* (Schenkel, 1932), by original designation.

Solpugella Roewer, 1933 [5 extant species]. Type species: *Solpugella asiatica* Roewer, 1933, by original designation.

Solpugema Roewer, 1933 [31 extant species]. Type species: *Solpuga vincta* C.L. Koch, 1842 = *Solpugema vincta* (C.L. Koch, 1842), by original designation. [Two subspecies are hereby elevated to the rank of species (Appendix 1).]

Solpugiba Roewer, 1934 [4 extant species]. Type species: *Solpuga lineata* C.L. Koch, 1842 = *Solpugiba lineata* (C.L. Koch, 1842), by original designation.

Solpugelis Roewer, 1934. Type species: *Solpugelis pictichelis* Roewer, 1934 = *Solpugiba pictichelis* (Roewer, 1934), by original designation. Synonymized by Wharton (1981).

Solpugista Roewer, 1934 [4 extant species]. Type species: *Solpuga hastata* Kraepelin, 1899 = *Solpugista hastata* (Kraepelin, 1899), by original designation.

Solpugisticella Turk, 1960 [1 extant species]. Type species: *Solpugisticella kenya* Turk, 1960, by original designation.

Solpuguna Roewer, 1933 [5 extant species]. Type species: *Solpuga cervina* Purcell, 1899 = *Solpuguna cervina* (Purcell, 1899), by original designation.

Solpugyla Roewer, 1933 [10 extant species]. Type species: *Solpuga darlingii* Pocock, 1897a = *Solpugyla darlingii* (Pocock, 1897a), by original designation.

Zeria Simon, 1879a [65 extant species]. Type species: *Zeria persephone* Simon, 1879a, by monotypy. [Synonymized with *Solpuga* by Pocock (1897a). Five subspecies are hereby elevated to the rank of species (Appendix 1).]

Solpugarda Roewer, 1933. Type species: *Solpuga nasuta* Karsch, 1880 = *Zeria nasuta* (Karsch, 1880), by original designation. Synonymized with *Solpuga sensu* Roewer, 1933, by Delle Cave (1977).

Solpugorna Roewer, 1933. Type species: *Solpugorna adunca* Roewer, 1933 = *Zeria adunca* (Roewer, 1933), by original designation. Synonymized by Wharton (1981).

Zeriassa Pocock, 1897a [19 extant species]. Type species: *Zeria bicolor* Pocock, 1897b = *Zeriassa bicolor* (Pocock, 1897b), by original designation. [Two subspecies are hereby elevated to the rank of species (Appendix 1).]

Canentis Pavesi, 1897. Type species: *Canentis ruspolii* Pavesi, 1897 = *Zeriassa ruspolii* (Pavesi, 1897), by original designation. Synonymized by Kraepelin (1901); also see ICZN (2005a).

Suborder **Boreosolifugae** Kulkarni *et al.*, 2023
(6 extant families, 1 extinct genus *incertae sedis*)

*Incertae sedis*²

†**Cushingia** Dunlop, Bird, Brookhart & Bechly, 2015 [1 extinct species]. Type species: †*Cushingia ellenbergeri* Dunlop, Bird, Brookhart & Bechly, 2015, by original designation.

2 †*Cushingia* Dunlop, Bird, Brookhart & Bechly, 2015 is placed *incertae sedis* in Boreosolifugae Kulkarni *et al.*, 2023, based on Dunlop *et al.* (2015).

Family **Dinorhaxidae** Roewer, 1933
(1 extant genus)

Dinorhax Simon, 1879a [1 extant species]. Type species: *Rhax rostrumpsittaci* Simon, 1877 = *Dinorhax rostrumpsittaci* (Simon, 1877), by monotypy.

Family **Eremobatidae** Kraepelin, 1901
(2 extant subfamilies)

Subfamily **Eremobatinae** Kraepelin, 1901
(5 extant genera)

Eremobates Banks, 1900 [89 extant species, 8 *nomina dubia*]. Type species: *Gluvia cinerascens* C.L. Koch, 1842 = *Eremobates cinerascens* (C.L. Koch, 1842), by subsequent designation (Pocock, 1902a; see Harvey, 2001). [Replacement name for *Datames* Simon, 1879a.]

Datames Simon, 1879a. Type species: *Gluvia cinerascens* C.L. Koch, 1842 = *Eremobates cinerascens* (C.L. Koch, 1842), by subsequent designation (Pocock, 1902a; see Harvey, 2001). [Junior homonym of *Datames* Stål, 1875 (Insecta: Orthoptera).]

Eremoperna Roewer, 1934. Type species: *Datames affinis* Kraepelin, 1899 = *Eremobates affinis* (Kraepelin, 1899), by original designation. Synonymized by Muma (1951).

Eremospina Roewer, 1934. Type species: *Gluvia tolteca* Pocock, 1895a = *Eremobates toltecus* (Pocock, 1895a), by original designation. Synonymized through transfer of type species to *Eremobates* Banks, 1900 by Muma (1970).

Eremognatha Roewer, 1934. Type species: *Datames tuberculatus* Kraepelin, 1899 = *Eremobates tuberculatus* (Kraepelin, 1899), by original designation. Synonymized by Muma (1951).

Eremoseta Roewer, 1934. Type species: *Eremoseta titschacki* Roewer, 1934 = *Eremobates titschacki* (Roewer, 1934), by original designation. Synonymized by Muma (1970).

Eremostata Roewer, 1934. Type species: *Gluvia cinerascens* C.L. Koch, 1842 = *Galeodes pallipes* Say, 1822 = *Eremobates pallipes* (Say, 1822), by original designation. Synonymized by Muma (1951).

Eremocosta Roewer, 1934 [9 extant species, 1 *nomen dubium*]. Type species: *Eremocosta gigas* Roewer, 1934, by original designation.

Eremacantha Roewer, 1934. Type species: *Eremacantha robusta* Roewer, 1934 = *Eremocosta robusta* (Roewer, 1934), by original designation. Synonymized by Muma (1970).

Eremorhax Roewer, 1934 [13 extant species]. Type species: *Datames magna* Hancock, 1888 = *Eremorhax magnus* (Hancock, 1888), by original designation.

Eremopus Roewer, 1934. Type species: *Eremopus montezuma* Roewer, 1934 = *Eremorhax montezuma* (Roewer, 1934), syn. nov., by original designation. [Junior homonym of *Eremopus* Brady, 1910 (Crustacea: Copepoda).]

Arenotherus Brookhart & Muma, 1987. Type species: *Datames magna* Hancock, 1888 = *Eremorhax magnus* (Hancock, 1888), by original designation. Synonymized by Harvey (2002b).

Eremothera Muma, 1951 [2 extant species]. Type species: *Eremothera sculpturata* Muma, 1951, by original designation.

Horribates Muma, 1962 [3 extant species]. Type species: *Horribates spinigerus* Muma, 1962, by original designation.

Subfamily **Therobatinae** Muma, 1951
(3 extant genera)

Chanbria Muma, 1951 [5 extant species, 1 *nomen nudum*]. Type species: *Chanbria regalis* Muma, 1951, by original designation.

Eremochelis Roewer, 1934 [38 extant species]. Type species: *Eremochelis insignatis* Roewer, 1934, by original designation.

Therobates Muma, 1951. Type species: *Therobates bilobatus* Muma, 1951 = *Eremochelis bilobatus* (Muma, 1951), by original designation. Synonymized by Muma (1970).

Hemerotrecha Banks, 1903 [35 extant species]. Type species: *Hemerotrecha californica* Banks, 1903 [junior secondary homonym of *Cleobis californica* Banks, 1899 = *Hemerotrecha banksi* Muma, 1951], by monotypy.

Family **Galeodidae** Sundevall, 1833
(9 extant genera)

Galeodes Olivier, 1791 [179 extant species, 1 *nomen dubium*]. Type species: *Phalangium araneoides* Pallas, 1772 = *Galeodes araneoides* (Pallas, 1772), by subsequent designation (Latreille, 1802). [Five

subspecies are hereby elevated to the rank of species (Appendix 1).]

Zerbina Karsch, 1880. Type species: *Gluvia gracilis* C.L. Koch, 1842 = *Galeodes arabs* C.L. Koch, 1842, by original designation. Synonymized by Kraepelin (1901).

Galeodarus Roewer, 1934. Type species: *Galeodarus insidiator* Roewer, 1934 = *Galeodes insidiator* (Roewer, 1934), by original designation. Synonymized with *Galeodes* (*Galeodellus*) Roewer, 1934 = *Galeodes* Olivier, 1791 by Turk (1960).

Galeodellus Roewer, 1934. Type species: *Galeodes caspius* Birula, 1890a, by original designation. Synonymized by Turk (1960).

Galeodenna Roewer, 1934. Type species: *Galeodes fischeri* Hirst, 1908 = *Galeodes indicus australis* Pocock, 1900b = *Galeodes australis* Pocock, 1900b, by original designation. Synonymized by Turk (1960).

Galeodessus Roewer, 1934. Type species: *Galeodessus taurus* Roewer, 1934 = *Galeodes taurus* (Roewer, 1934), by original designation. Synonymized by Turk (1960).

Galeodibus Roewer, 1934. Type species: *Galeodes blanchardi* Simon, 1891, by original designation. Synonymized by Turk (1960).

Galeodila Roewer, 1934. Type species: *Galeodila bengalica* Roewer, 1934 = *Galeodes bengalicus* (Roewer, 1934), by original designation. Synonymized with *Galeodes* (*Galeodellus*) Roewer, 1934 = *Galeodes* Olivier, 1791 by Turk (1960).

Galeodora Roewer, 1934. Type species: *Galeodora distincta* Roewer, 1934 = *Galeodes distinctus* (Roewer, 1934), by original designation. Synonymized by Turk (1960).

Galeodopsis Birula, 1903 [5 extant species]. Type species: *Galeodes cyrus* Pocock, 1895a = *Galeodopsis cyrus* (Pocock, 1895a), by original designation.

Galeodumus Roewer, 1960 [1 extant species]. Type species: *Galeodumus colognatoi* Roewer, 1960, by original designation.

Gluviema Caporiacco, 1937 [1 extant species]. Type species: *Gluviema migiurtina* Caporiacco, 1937, by monotypy. [Possible synonym of *Galeodellus* according to Harvey (2003a).]

Othoes Hirst, 1911 [5 extant species]. Type species: *Othoes floweri* Hirst, 1911, by monotypy.

Paragaleodes Kraepelin, 1899 as *Galeodes* (*Paragaleodes*) Kraepelin, 1899 [12 extant species]. Type species: *Galeodes scalaris* C.L. Koch, 1842 = *Paragaleodes scalaris* (C.L. Koch, 1842), by subsequent designation (Harvey, 2002b).

Mesogaleodes Heymons, 1902. Type species: *Mesogaleodes heliophilus* Heymons, 1902 = *Paragaleodes pallidus* Birula, 1890a. [Roewer (1934) synonymized *Mesogaleodes* Heymons, 1902 with *Galeodes* Olivier, 1791. However, Gromov & Kopdykbaev (1994) synonymized the type species, *Mesogaleodes heliophilus* Heymons, 1902, with *Paragaleodes pallidus* Birula, 1890a, hence *Mesogaleodes* Heymons, 1902 = *Paragaleodes* Kraepelin, 1899, syn. nov.]

Paragaleodiscus Birula, 1941 [1 extant species]. Type species: *Paragaleodiscus aflagellatus* Birula, 1941, by monotypy.

Roeweriscus Birula, 1937 [1 extant species]. Type species: *Roeweriscus paradoxus* Birula, 1937, by original designation.

Zombis Simon, 1882 [1 extant species]. Type species: *Zombis pusiola* Simon, 1882, by monotypy.

Family **Gylippidae** Roewer, 1933
(5 extant genera)

Acanthogylippus Birula, 1913 as *Gylippus* (*Acanthogylippus*) Birula, 1913. [1 extant species]. Type species: *Gylippus judaicus* Kraepelin, 1899 = *Acanthogylippus judaicus* (Kraepelin, 1899), by monotypy.

Anoplogylippus Birula, 1913, stat. nov., as *Gylippus* (*Anoplogylippus*) Birula, 1913 [5 species]. Type species: *Gylippus rickmersi* Kraepelin, 1899 = *Gylippus syriacus ferganensis* Birula, 1893 = *Anoplogylippus ferganensis* (Birula, 1893), comb. nov., by original designation. [*Anoplogylippus* Birula, 1913, stat. nov. was originally created as a subgenus of *Gylippus* Simon, 1879a. It is hereby elevated to the rank of genus, resulting in three new combinations (Appendix 1).]

Gylippus Simon, 1879a [8 extant species]. Type species: *Galeodes syriacus* Simon, 1872a = *Gylippus syriacus* (Simon, 1872a), by monotypy.

Hemigylippus Birula, 1913, stat. nov., as *Gylippus* (*Hemigylippus*) Birula, 1913 [3 species]. Type species: *Gylippus lamelliger* Birula, 1906a = *Hemigylippus lamelliger* (Birula, 1906a), comb. nov., by monotypy. [*Hemigylippus* Birula, 1913, stat. nov. was originally created as a subgenus of *Gylippus* Simon, 1879a. It

is hereby elevated to the rank of genus, resulting in three new combinations (Appendix 1).]

Paragylippus Roewer, 1933, stat. rev. [9 extant species]. Type species: *Gylippus monoceros* Werner, 1905 = *Paragylippus monoceros* (Werner, 1905), comb. nov., by original designation. [This genus was relegated to a subgenus of *Gylippus* Simon, 1879a by Birula (1938). It is hereby returned to the rank of genus, resulting in eight new combinations (Appendix 1). One subspecies is elevated to the rank of species.]

Family **Karschiidae** Kraepelin, 1899
(5 extant genera)

Barrus Simon, 1880 [1 extant species]. Type species: *Barrus letourneuxi* Simon, 1880, by monotypy.

Barrussus Roewer, 1928 [3 species]. Type species: *Barrussus furchichelis* Roewer, 1928, by monotypy.

Rhinippus Werner, 1905. Type species: *Rhinippus pentheri* Werner, 1905 = *Barrussus pentheri* (Werner, 1905), by monotypy. [Junior homonym of †*Rhinippus* Burmeister, 1875 (Mammalia: Perissodactyla). Treated as a subgenus of *Eusimonia* Kraepelin, 1899 by Birula (1938).] Synonymized by Roewer (1933).

Eusimonia Kraepelin, 1899 [16 extant species]. Type species: *Galeodes nigrescens* Kraepelin, 1899 = *Eusimonia nigrescens* (Kraepelin, 1899), by subsequent designation (Birula, 1913).

Barrella Hirst, 1910. Type species: *Barrella walsinghami* Hirst, 1910 = *Eusimonia walsinghami* (Hirst, 1910), by monotypy. Synonymized by Birula (1938).

Karschia Walter, 1889 [27 extant species]. Type species: *Karschia cornifera* Walter, 1889 = *Karschia* (*Karschia*) *cornifera* Walter, 1889, by monotypy.

Rhinokarschia Birula, 1935a, stat. nov. [9 extant species]. Type species: *Karschia kaznakovi* Walter, 1889 = *Rhinokarschia kaznakovi* (Walter, 1889), comb. nov., by subsequent designation (Harvey, 2003a). [*Rhinokarschia* Birula, 1935a, stat. nov. was originally created as a subgenus of *Karschia* Walter, 1889. It is hereby elevated to the rank of genus, resulting in nine new combinations (Appendix 1).]

Family **Rhagodidae** Pocock, 1897a
(27 extant genera)

Rhagodalma Roewer, 1933 [1 extant species]. Type species: *Rhagodalma melanocephala* Roewer, 1933, by original designation.

Rhagodax Roewer, 1941 [1 extant species]. Type species: *Rhagodax wadidaba* Roewer, 1941, by monotypy.

Rhagodeca Roewer, 1933 [3 extant species]. Type species: *Rhax impavida* C.L. Koch, 1842 = *Rhagodeca impavida* (C.L. Koch, 1842), by original designation.

Rhagodelbus Roewer, 1941 [1 extant species]. Type species: *Rhagodes bucharicus* Birula, 1935a = *Rhagodelbus bucharicus* (Birula, 1935a), by monotypy.

Rhagoderma Roewer, 1933 [3 extant species]. Type species: *Rhax nigriceps* Pocock, 1895b = *Rhagoderma nigriceps* (Pocock, 1895b), by original designation.

Rhagoderus Roewer, 1933 [1 extant species]. Type species: *Rhagoderus griseopilosus* Roewer, 1933, by original designation.

Rhagodes Pocock, 1897a [25 extant species]. Type species: *Galeodes melanus* Olivier, 1807 = *Rhagodes melanus* (Olivier, 1807), by subsequent designation (Pocock, 1900b). [Replacement name for *Rhax* C.L. Koch, 1839.]

Rhax C.L. Koch, 1839. Type species: *Galeodes melanus* Olivier, 1807 = *Rhagodes melanus* (Olivier, 1807), by subsequent designation (Pocock, 1900b). [Junior homonym of *Rhax* Hermann, 1804. Suppressed by ICZN (2005b) following petition by Harvey (2003b).]

Rhagodella Roewer, 1933. Type species: *Rhax melanopyga* Walter, 1889 = *Rhagodes melanopygus* (Walter, 1889), by original designation. Synonymized by Birula (1938).

Rhagodessa Roewer, 1933 [5 extant species]. Type species: *Rhax melanocephala* Simon, 1879a = *Rhagodessa melanocephala* (Simon, 1879a), by original designation.

Rhagodeya Roewer, 1933 [2 extant species]. Type species: *Rhagodeya nubia* Roewer, 1933, by original designation.

Rhagodia Roewer, 1933 [4 extant species]. Type species: *Rhagodes nigriceps* var. *obscurior* Penther, 1913 = *Rhagodia obscurior* (Penther, 1913), by original designation.

Rhagodima Roewer, 1933 [2 extant species]. Type species: *Rhax annulata* Simon, 1885 = *Rhagodima annulata* (Simon, 1885), by original designation.

Rhagodin Roewer, 1933 [2 extant species]. Type species: *Rhagodes caenaeicus* Penther, 1913 =

Rhagodin *caenaeicus* (Penther, 1913), by original designation.

Rhagodippa Roewer, 1933 [1 extant species]. Type species: *Rhagodippa albatra* Roewer, 1933, by original designation.

Rhagodira Roewer, 1933 [3 extant species]. Type species: *Galeodes ochropus* Dufour, 1861 = *Rhagodira ochropus* (Dufour, 1861), by original designation.

Rhagodista Kraus, 1959 [1 extant species]. Type species: *Rhagodista diabolica* Kraus, 1959, by original designation.

Rhagoditta Roewer, 1933 [6 extant species]. Type species: *Galeodes phalangium* Olivier, 1807 = *Rhagoditta phalangium* (Olivier, 1807), by original designation.

Rhagodixa Roewer, 1933 [3 extant species]. Type species: *Rhagodixa hirsti* Roewer, 1933, by original designation.

Rhagodoca Roewer, 1933 [18 extant species]. Type species: *Rhax termes* Karsch, 1885 = *Rhagodoca termes* Karsch, 1885, by original designation. [One subspecies is hereby elevated to the rank of species (Appendix 1).]

Rhagodolus Roewer, 1933 [1 extant species]. Type species: *Rhax miranda* Pocock, 1895a = *Rhagodolus mirandus* (Pocock, 1895a), by original designation.

Rhagodomma Roewer, 1933 [1 extant species]. Type species: *Rhagodes vittatus* Pocock, 1899c = *Rhagodes vittata* (Pocock, 1899c), by original designation.

Rhagodopa Roewer, 1933 [4 extant species]. Type species: *Solpuga brevipes* Gervais, 1842 = *Rhagodopa brevipes* (Gervais, 1842), by original designation.

Rhagodorimus Turk, 1948 [1 extant species]. Type species: *Rhagodorimus judaicus* Turk, 1948, by original designation.

Rhagodorta Roewer, 1933 [1 extant species]. Type species: *Rhagodes zorab* Birula, 1905b = *Rhagodes zorab* (Birula, 1905b), by original designation.

Rhagodospus Roewer, 1941 [1 extant species]. Type species: *Rhagodes babylonicus* Birula, 1935b = *Rhagodospus babylonicus* (Birula, 1935b), by monotypy.

Rhagoduja Roewer, 1933 [1 extant species]. Type species: *Rhagoduja finnegani* Roewer, 1933, by original designation.

Rhagodula Roewer, 1941 [1 extant species]. Type species: *Rhagodula nigra* Roewer, 1941, by monotypy.

Rhagoduna Roewer, 1933 [4 extant species]. Type species: *Rhagoduna nocturna* Roewer, 1933, by original designation.

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APPENDIX 1. New taxonomic changes in the Order Solifugae Sundevall, 1833

Order Solifugae Sundevall, 1833

Suborder Australosolifugae Kulkarni *et al.*, 2023

Family Daesiidae Kraepelin, 1899

Subfamily Daesiinae Kraepelin, 1899

Bitonissus Roewer, 1933, stat. rev.

Biton algeriensis (Kraepelin, 1900), stat. nov.

Biton aristonemes Delle Cave & Simonetta, 1971, stat. nov.

Biton bidentatus Lawrence, 1955, stat. nov.

Biton curvichelis Lawrence, 1963, stat. nov.

Biton dmitrievi (Birula, 1905a), stat. rev.

Biton polytricha Lawrence, 1972, stat. nov.

Blossia agriope (Delle Cave & Simonetta, 1971), stat. nov.

Blossia brachygnatha (Lawrence, 1935), stat. nov.

Blossia longicornis (Lawrence, 1935), stat. nov.

Blossia namibensis (Lawrence, 1972), stat. nov.

Blossia natalensis Hewitt, 1934, stat. nov.

Blossia omatjensis Hewitt, 1934, stat. nov.

Blossia quibensis Hewitt, 1934, stat. nov.

Blossia transvaalica Lawrence, 1929, stat. nov.

Subfamily Gluviopsinae Roewer, 1933

Gluviopsis pygmaea Delle Cave & Simonetta, 1971, stat. nov.

Subfamily Gnosippinae Roewer, 1933

Gnosippus occidentalis Frade, 1948, stat. nov.

Family Solpugidae Leach, 1816

Subfamily Solpuginae Leach, 1814

Solpuga carlkochi Harvey, 2002b, stat. nov.

Solpuga macrognatha Hewitt, 1919, stat. nov.

Solpuga majora Lawrence, 1953, stat. nov.

Solpuga pubescens Hewitt, 1919, stat. nov.

Solpugassa lanzai Simonetta & Delle Cave, 1968, stat. nov.

Solpugema orangica (Hewitt, 1919), stat. nov.

Solpugema pietersi (Hewitt, 1923), stat. nov.

Zeria edentula (Lawrence, 1937), stat. nov.

Zeria kafulica (Hewitt, 1919), stat. nov.

Zeria nocturna (Lawrence, 1965), stat. nov.

Zeria pugilator (Hirst, 1912), stat. nov.

Zeria spatulata (Lawrence, 1961), stat. nov.

Zeriassa fuchsi Lawrence, 1953, stat. nov.

Zeriassa prelleri Hewitt, 1934, stat. nov.

Suborder Boreosolifugae Kulkarni *et al.*, 2023

Family Eremobatidae Kraepelin, 1901

Subfamily Eremobatinae Kraepelin, 1901

Eremopus montezuma Roewer, 1934 = *Eremorhax montezuma* (Roewer, 1934), syn. nov.

Family Galeodidae Sundevall, 1833

Galeodes brunneipalpis (Roewer, 1941), stat. nov.

Galeodes fuscus Birula, 1890b, stat. nov.

Galeodes pallasi Birula, 1912, stat. nov.

Galeodes subfuscus Birula, 1937, stat. nov.

Galeodes syriacus Kraepelin, 1899, stat. nov.

Mesogaleodes Heymons, 1902 = *Paragaleodes* Kraepelin, 1899, syn. nov.

Family Gylippidae Roewer, 1933

Anoplogylippus Birula, 1913, stat. nov.

Anoplogylippus bergi (Birula, 1907), comb. nov.

Anoplogylippus ferganensis (Birula, 1893), comb. nov.

Anoplogylippus pectinifer (Birula, 1906b), comb. nov.

Hemigylippus Birula, 1913, stat. nov.

Hemigylippus bayrami (Erdek, 2015), comb. nov.

Hemigylippus krivokhatskyi (Gromov, 1998), comb. nov.

Hemigylippus lamelliger (Birula, 1906a), comb. nov.

Paragylippus Roewer, 1933, stat. rev.

Paragylippus arikani (Koç & Erdek, 2021), comb. nov.

Paragylippus caucasicus (Birula, 1907), comb. nov.

Paragylippus koenigi (Birula, 1913), comb. et stat. nov.

Paragylippus hakkaricus (Erdek, 2019), comb. nov.

Paragylippus monoceros (Werner, 1905), comb. nov.

Paragylippus ozdinci (Erdek, 2025), comb. nov.

Paragylippus quaestiunculoides (Birula, 1907), comb. nov.

Paragylippus spinimanus (Birula, 1905b), comb. nov.

Family Karschiidae Kraepelin, 1899

Rhinokarschia Birula, 1935a, stat. nov.

Rhinokarschia borszczewskii (Birula, 1935), comb. nov.

Rhinokarschia gobiensis (Gromov, 2004), comb. nov.

Rhinokarschia kaznakovi (Walter, 1889), comb. nov.,

Rhinokarschia liui (Fan, Zhang & Zhang, 2024), comb. nov.
Rhinokarschia nasuta (Kraepelin, 1899), comb. nov.
Rhinokarschia pedaschenkoi (Birula, 1922), comb. nov.
Rhinokarschia rhinoceros (Birula, 1922), comb. nov.
Rhinokarschia tadzhika (Gromov, 2004), comb. nov.
Rhinokarschia zarudnyi (Birula, 1922), comb. nov.

Family **Rhagodidae** Pocock, 1897a

Rhagodoca tenebrosa Lawrence, 1953, stat. nov.