A summary list of fossil spiders and their relatives

compiled by

Jason A. Dunlop (Berlin), David Penney (Manchester) & Denise Jekel (Berlin)

with additional contributions from Lyall I. Anderson, Simon J. Braddy, James C. Lamsdell, Paul A. Selden & O. Erik Tetlie

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INTRODUCTION

Fossil spiders have not been fully cataloged since Bonnet's *Bibliographia Araneorum* and are not included in the current *World Spider Catalog*. Since Bonnet's time there has been considerable progress in our understanding of the fossil record of spiders – and other arachnids – and numerous new taxa have been described. For an overview see Dunlop & Penney (2012). Spiders remain the single largest fossil group, but our aim here is to offer a summary list of all fossil Chelicerata in their current systematic position; as a first step towards the eventual goal of combining fossil and Recent data within a single arachnological resource.

To integrate our data as smoothly as possible with standards used for living spiders, our list for Araneae follows the names and sequence of families adopted in the previous Platnick Catalog. For this reason some of the family groups proposed in Wunderlich's (2004, 2008, 2012) monographs of amber and copal spiders are not reflected here, and we encourage the reader to consult these studies for details and alternative opinions. Extinct families have been inserted in the position which we hope best reflects their probable affinities. For other arachnid groups we have largely followed the nomenclature and family sequences adopted in other online or printed summaries; for example Victor Fet *et al*.'s work on scorpions, Mark Harvey's catalogues of pseudoscorpions and the 'minor' orders – all of which also list the fossils – Adriano Kury's harvestman overviews and the third edition of the Manual of Acarology for mites. For all groups, genus and species names were compiled from established lists and cross-referenced against the primary literature.

We aim to reflect the latest published opinions on the taxonomy of fossil species. A caveat here is that some synonomies and transfers proposed in the literature were only provisional or tentative in nature. At times we were forced to interpret whether a formal nomenclatural change had actually been made, and we have tried to accomodate these difficulties as best as possible. We should also stress that many historical fossil types require revision. Older species names assigned to common, modern genera such as *Araneus*, *Clubiona* or *Linyphia* among the spiders, should be treated with caution. The list has been extended to include Recent species – particularly some spiders and numerous oribatid mites – found as (sub)fossils. These are generally specimens of Quaternary age found in copal, or recovered from peats or archeological sites.

We have provided references for the first descriptions of all the fossil species, and where possible we have added the relevant taxonomic literature for all the taxon names which we mention here. We should, however, note that for some groups (especially mites) recovering the correct author and date for higher taxa proved challenging, and we hope in future releases to be able to clarify these names and augment the reference list accordingly. Formal synonomy lists for the fossil species are being compiled and that which we have for individual taxa can be made available upon request upon a 'fair use' basis. As with any project of this size, we cannot guarantee the accuracy of all these entries and we encourage readers to foward omissions or corrections to jason.dunlop@mfn-berlin.de.

PRINCIPAL CHANGES SINCE THE LAST UPDATE

The principal additions in this version include a limulid horseshoe crab from Slovenia, some new family records of pseudoscorpions from Bitterfeld amber, a pholcid spider from Chiapas (Mexican) amber, some new spiders from the Cretaceous Jinju Formation of Korea, an overlooked Burmese amber whip scorpion, and the first named Cretaceous schizomid, also from Burmese amber and the transfer of a known fossil schizomid genus to a different family.

ACKNOWLEDGMENTS

We are very grateful to Wolfgang Nentwig and the Bern team for agreeing to host this list as an appendix to the Catalog, to Paul Selden for encouragement, support and corrections, and to those colleagues who have advised us on oversights and/or provided further literature. In particular Russell Bicknell kindly provided several overlooked horseshoe crab references.

EXPLANATIONS

- † indicates an entirely extinct genus, family or other higher taxon
- all species listed assumed to be extinct unless marked **[Recent]**
- * indicates the type species of (fossil) genera

Stratigraphical abbreviations:

pЄ = Precambrian, Є = Cambrian, O = Ordovician, S = Silurian, D = Devonian, C = Carboniferous, P = Permian

Tr = Triassic, J = Jurassic, K = Cretaceous

Pa = Palaeogene, Ne = Neogene, Qt = Quaternary

PYCNOGONIDA

11 currently valid species of fossil sea spider

- note that in some modern phylogenies the Palaeozoic genera resolve *within* the crown group

PYCNOGONIDA Latreille, 1810 ..... **Cambrian – Recent**

= ARACHNOPODA Dana, 1853

† ***Cambropycnogon*** **Waloszek & Dunlop, 2002** ..... **Cambrian**

1. *Cambropycnogon klausmuelleri* Waloszek & Dunlop, 2002* ..... € 'Orsten', Sweden

pycnogonid affinities were questioned by Bamber (2007)

† ***Haliestes*** **Siveter, Sutton, Briggs & Siveter, 2004** ..... **Silurian**

2. *Haliestes dasos* Siveter, Sutton, Briggs & Siveter, 2004* ..... S Herefordshire Lgst.

† ***Flagellopantopus*** **Poschmann & Dunlop, 2006** ..... **Devonian**

3. *Flagellopantopus blocki* Poschmann & Dunlop, 2006* ..... D Hunsrückschiefer

† ***Palaeomarachne*** **Rudkin, Cuggy, Young & Thompson, 2013** ..... **Ordovician**

4. *Palaeomarachne granulata* Rudkin, Cuggy, Young & Thompson, 2013* O Mantobia, Canada

† ***Pentapantopus*** **Kühl, Poschmann & Rust, 2013** ..... **Devonian**

5. *Pentapantopus vogteli* Kühl, Poschmann & Rust, 2013* ..... D Hunsrückschiefer

† **PALAEOISOPODIDAE Dubinin, 1957** ..... **Devonian**

† ***Palaeoisopus*** **Broili, 1928** ..... **Devonian**

6. *Palaeoisopus problematicus* Broili, 1928* ..... D Hunsrückschiefer

† **PALAEOPANTOPODIDAE Broili, 1930** ..... **Devonian**

† ***Palaeopantopus*** **Broili, 1928** ..... **Devonian**

7. *Palaeopantopus maucheri* Broili, 1928* ..... D Hunsrückschiefer

PANTOPODA Gerstaecker, 1863 ..... **Devonian – Recent**

= PEGMATA Fry, 1978

family uncertain

† ***Palaeothea*** **Bergström, Stürmer & Winter, 1980** ..... **Devonian**

8. *Palaeothea devonica* Bergström, Stürmer & Winter, 1980* ..... D Hunsrückschiefer

AUSTRODECIDAE Stock, 1954 ..... **Recent**

no fossil record

PYCNOGONIDAE Wilson, 1878 ..... **Recent**

no fossil record

COLOSSENDEIDAE Hoek, 1881 ……..**?Jurassic – Recent**

= PASITHOIDAE Sars, 1891

= RHOPALORHYNCHIDAE Fry, 1978

† ***Colossopantopodus* Charbonnier, Vannier & Riou, 2007** ……..**Jurassic**

9. *Colossopantopodus boissinensis* Charbonnier, Vannier & Riou, 2007* . J La Voulte-sur-Rhône

tentative famial referal

AMMOTHEIDAE Dohrn, 1881 ……..**?Jurassic – Recent**

= EURYCIDIDAE Sars, 1891

= OORHYNCHIDAE Schimkewitsch, 1913

= TANYSTYLIDAE Schimkewitsch, 1913

= AMMOTHELLIDAE Fry, 1978

= EPHYROGYMNIDAE Fry, 1978

= PARANYMPHONIDAE Fry, 1978

= SERICOSURIDAE Fry, 1978

= TRYGAEIDAE Fry, 1978

† ***Palaeopycnogonides* Charbonnier, Vannier & Riou, 2007** ……..…….. **Jurassic**

10. *Palaeopycnogonides gracilis* Charbonnier, Vannier & Riou, 2007* …… J La Voulte-sur-Rhône

tentative famial referal

CALLIPALLENIDAE Hilton, 1942 ……..……..**Recent**

= PALLENIDAE Wilson, 1878 [*Pallene* is a preoccupied genus]

= CHEILAPALLENIDAE Fry, 1978

= CLAVIGEROPALLENIDAE Fry, 1978

= HANNONIDAE Fry, 1978

= METAPALLENIDAE Fry, 1978

= QUEUBIDAE Fry, 1978

= STYLOPALLENIDAE Fry, 1978

no fossil record

NYMPHONIDAE Wilson, 1878 ……..**Recent**

no fossil record

PALLENOPSIDAE Fry, 1978 ……..…….. **Recent**

no fossil record

ENDEIDAE Norman, 1904 ……..……..**?Jurassic – Recent**

† ***Palaeoendeis* Charbonnier, Vannier & Riou, 2007** ……..…….. **Jurassic**

11. *Palaeoendeis elmii* Charbonnier, Vannier & Riou, 2007* ……..…….. J La Voulte-sur-Rhône

tentative famial referal

PHOXICHILIDIIDAE Sars, 1891 ……..……..**Recent**

= ANOPLODACTYLIDAE Fry, 1978

= PHOXIPHILYRIDAE Fry, 1978

no fossil record

RHYNCHOTHORACIDAE Thompson, 1909 ……..**Recent**

no fossil record

MISIDENTIFICATIONS

1. *Pentapalaeopycnon inconspicua* Hedgpeth, 1978 [crustacean] ……..……J Solnhofen
2. *Pycnogonites uncinatus* Quenstedt, 1852 [crustacean] ……..……..……J Solnhofen

c. 1,300 Recent species

(EU)CHELICERATA

6 currently valid, but unplaced (eu)chelicerate fossil species

- *Sanctacaris* has been recovered as an early chelicerate in some phylogenetic studies – most recently by Legg (2014) – although this interpretation is not universal
- *Offacolus* has been described in detail from reconstructions based on serial sections, and was resolved in some phylogenies to a basal position within Euchelicerata
- *Dibasterium* was described as a horseshoe crab, albeit one with multiple biramous appendages
- *Houia* was suggested as a possible link between horseshoe crabs and eurypterids
- the other listed taxa are mostly poor or incomplete specimens which have been treated as either xiphosurans, chasmataspidids or eurypterids
- resting impressions imply that Chasmataspidida were probably present in the late Cambrian

CHELICERATA Heymons, 1901 ..... ?Cambrian – Recent

† ***Sanctacaris*** **Briggs & Collins, 1988**..... **Cambrian**

1. *Sanctacaris uncata* Briggs & Collins, 1988* ..... Є Burgess Shale

EUCHELICERATA Weygoldt & Paulus, 1979 ..... ?Cambrian – Recent

STEM-EUCHELICERATA?

† ***Offacolus*** **Orr, Siveter, Briggs, Siveter & Sutton, 2000** ..... **Silurian**

2. *Offacolus kingi* Orr, Siveter, Briggs, Siveter & Sutton, 2000* ..... S Herefordshire Lgst.

† ***Dibasterium*** **Briggs, Siveter, Siveter, Sutton, Garwood & Legg, 2012**..... **Silurian**

3. *Dibasterium durgae* Briggs, Siveter, Siveter, Sutton, Garwood & Legg, 2012* ..... S Herefordshire Lgst.

EUCHELICERATA *INCERTAE SEDIS*

† ***Houia*** **Selden, Lamsdell & Qi, 2015** ..... **Devonian**

4. *Houia yueya* (Lamsdell, Xue & Selden, 2013)..... D Yunann, China

† ***Polystomurum*** **Novojilov, 1958** ..... **Devonian**

5. *Polystomurum stormeri* Novojilov, 1958* ..... D Voroneje, Siberia

† ***Thurandina*** **Størmer, 1974** ..... **Devonian**

6. *Thurandina waterstoni* Størmer, 1974* ..... D Alken an der Mosel

XIPHOSURA *s. lat.*

109 currently valid species traditionally assigned to horseshoe crabs, of which 85 are unequivocal Xiphosura

- Lamsdell (2013) argued that Xiphosura may not be monophyletic and that a number of fossils traditionally placed as stem-group (synziphosurine) horseshoe crabs are actually stem-group euchelicerates. The list below attempts to reflect this position, whereby it should be noted that in this scheme the Planaterga clade would also include Chasmataspidida, Eurypterida and Arachnida and Planaterga is nested within Prosomapoda.

PROSOMAPODA Lamsdell, 2013*a* ..... **Ordovician? – Recent**

FAMILY UNSPECIFIED

undetermined synziphosurine *in* Poschmann & Francke (2006) ..... D Waxweiler, Germany

† ***Anderella*** **Moore, McKenzie & Lieberman, 2007** ..... **Carboniferous**

1. *Anderella parva* Moore, McKenzie & Lieberman, 2007* ..... C Bear Gulch

† ***Borchgrevinkium*** **Novojilov, 1959** ..... **Devonian**

2. *Borchgrevinkium taimyrensis* Novojilov, 1959* ..... D Taimyr, Siberia

† ***Camanchia*** **Moore, Briggs, Braddy & Shultz, 2011** ..... **Silurian**

3. *Camanchia grovensis* Moore, Briggs, Braddy & Shultz, 2011* ..... S Scotch Grove, Iowa

† ***Legrandella*** **Eldredge, 1974** ..... **Devonian**

4. *Legrandella lombardii* Eldredge, 1974* ..... D Cochabamba, Bolivia

† ***Venustulus*** **Moore, 2005 *in* Moore *et al*.** ..... **Silurian**

5. *Venustulus waukeshaensis* Moore, 2005 *in* Moore *et al*.* ..... S Waukesha Lgst.

† **WEINBERGINIDAE Richter & Richter, 1929** ..... **Devonian**

† ***Weinbergina*** **Richter & Richter, 1929** ..... **Devonian**

6. *Weinbergina opitzi* Richter & Richter, 1929* ..... D Hunsrückschiefer

PLANATERGA Lamsdell, 2013*a* ..... **Silurian – Recent**

FAMILY UNSPECIFIED

† ***Bembicosoma*** **Laurie, 1899** ..... **Silurian**

7. *Bembicosoma pomphicus* Laurie, 1899* ..... S Pentland hills

† ***Cyamocephalus*** **Currie, 1927** ..... **Silurian**

8. *Cyamocephalus loganensis* Currie, 1927* ..... S Lesmahagow

† ***Pseudoniscus*** **Nieszkowski, 1859** ..... **Silurian**

= † *Neolimulus* Woodward, 1868*a*

9. *Pseudoniscus aculeatus* Nieszkowski, 1859* ..... S Saaremaa
10. *Pseudoniscus clarkei* Ruedemann, 1916 ..... S Pittsford, New York
11. *Pseudoniscus falcatus* (Woodward, 1868*a*) ..... S Lesmahagow

12. *Pseudoniscus roosevelti* Clarke, 1902 ..... S 'Bertie Waterlime'

† ***Bunaia* Clarke, 1919** ..... **Silurian**

13. '*Bunaia*' *heintzi* Størmer, 1934*a* ..... S Spitsbergen
14. *Bunaia woodwardi* Clarke, 1919* ..... S 'Bertie Waterlime'

† **BUNODIDAE Packard, 1896** ..... **Silurian**

† ***Bunodes* Eichwald, 1854** ..... **Silurian**

= † *Exapinurus* Nieszkowski, 1859

15. *Bunodes lunula* Eichwald, 1854* ..... S Saaremaa
    i. = *Bunodes rugosus* Eichwald, 1854 ..... S Saaremaa
    ii. = *Exapinurus schrenki* Nieszkowski, 1859 ..... S Saaremaa

† ***Limuloides* Woodward, 1865** ..... **Silurian**

= † *Hemiaspis* Woodward, 1864 [preoccupied]

16. *Limuloides limuloides* (Woodward, 1865) ..... S Ludlow
17. *Limuloides horridus* (Woodward, 1872*a*) ..... S Ludlow
18. *Limuloides salweyi* (Woodward, 1872*a*) ..... S Ludlow
    i. = *Hemiaspis tuberculatus* (Salter *in* Woodward, 1872*a*) S Ludlow
19. *Limuloides speratus* Woodward, 1872*a* ..... S Ludlow
    i. = *Hemiaspis optatus* (Salter *in* Woodward, 1872*a*) ..... S Ludlow

† ***Pasternakevia* Selden & Drygant, 1987** ..... **Silurian**

20. *Pasternakevia podolica* Selden & Drygant, 1987* ..... S Podolia

Planaterga *sensu* Lamsdell (2013*a*) also includes chasmataspids, eurypterids and arachnids

XIPHOSURA Latreille, 1802 ..... Ordovician – Recent

= MEROSTOMATA Dana, 1852

FAMILY UNSPECIFIED

† ***Drabovaspis* Chlupáč, 1963** ..... **Ordovician**

21. *Drabovaspis complexa* Chlupáč, 1963* ..... O Bohemia

previously treated as an aglaspidid; affinities within Xiphosura unclear (Ortega-Hernández *et al*. (2010)

† ***Kiaeria* Størmer, 1934*b*** ..... **Silurian**

22. *Kiaeria limuloides* Størmer, 1934*b** ..... S Ringerike

† ***Maldybulakia* Tesakov & Alekseev, 1998** ..... **Devonian**

= † *Lophodesmus* Tesakov & Alekseev, 1992 [preoccupied]

originally described as possible myriapods

23. *Maldybulakia angusi* Edgecombe, 1998 ..... D New South Wales
24. *Maldybulakia malcomi* Edgecombe, 1998 ..... D New South Wales
25. *Maldybulakia mirabilis* (Tesakov & Alekseev, 1992)* ..... D Kazakhstan

† ***Willwerathia* Størmer, 1969** ..... **Devonian**

26. *Willwerathia laticeps* (Størmer, 1936*a*)* ..... D Willwerath

† **'KASIBELINURIDAE' Pickett, 1993** ..... **Devonian**

= † ELLERIDAE Raymond, 1944

a paraphyletic family group *sensu* Lamsdell (2016).

† ***Elleria*** **Raymond, 1944** ..... **Devonian**

27. *Elleria morani* (Eller, 1938*b*)* ..... D Pennsylvania

† ***Kasibelinurus*** **Pickett, 1993** ..... **Devonian**

28. *Kasibelinurus amicorum* Pickett, 1993* ..... D New South Wales

† ***Lunataspis*** **Rudkin, Young & Nowlan, 2008** ..... **Ordovician**

29. *Lunataspis aurora* Rudkin, Young & Nowlan, 2008 ..... O Manitobia

possible kasibelinurids?

30. '*Belinurus*' *alleghenyensis* Eller, 1938*a* ..... D New York State

31. '*Belinurus*' *carterae* Eller, 1940 ..... D Pennsylvania

32. *'Prestwichia' randalli* Beecher, 1902 ..... D Pennsylvania

XIPHOSURIDA Latreille, 1802 ..... Ordovician – Recent

† **BELINURINA Zittel & Eastman, 1913** ..... **Carboniferous**

family uncertain

† ***Xiphosuroides*** **Shpinev & Vasilenko, 2018** ..... **Carboniferous**

33. *Xiphosuroides khakassicus* Shpinev & Vasilenko, 2018* [eggs !] ..... C Khakassia

† **BELINURIDAE Zittel & Eastman, 1913** ..... **Carboniferous**

= † EUPROOPIDAE Eller, 1938*b*

= † LIOMESASPIDIDAE Raymond, 1944

† ***Alanops*** **Racheboeuf *et al*., 2002** ..... **Carboniferous**

34. *Alanops magnifica* Racheboeuf *et al*., 2002 ..... C Montceau-les-Mines

† ***Anacontium*** **Raymond, 1944** ..... **Permian**

35. *Anacontium brevis* Raymond, 1944 ..... P Oklahoma

36. *Anacontium carpenteri* Raymond, 1944 ..... P Oklahoma

† ***Bellinurus*** **Pictet, 1846** ..... **Carboniferous**

= † *Belinurus* König, 1851

= † *Steropsis* Baily, 1869

= † *Koenigiella* Raymond, 1944

Pictet's 1846 name *Bellinurus* [*sic*] was based on a misspelling of *Belinurus* from König's unpublished plates, which themselves only became available posthumously as of 1851

37. *Bellinurus arcuatus* Baily, 1863 ..... C Coal Measues

38. *Bellinurus baldwini* Woodward, 1907*b* ..... C Coal Measues

39. *Bellinurus bellulus* Pictet, 1846 ..... C Coalbrookdale, UK

40. *Bellinurus carwayensis* Dix & Pringle, 1929 ..... C South Wales, UK

41. *Bellinurus concinnus* Dix & Pringle, 1929 ..... C South Wales, UK

42. *Bellinurus grandaevus* Jones & Woodward, 1899 ..... C Nova Scotia

43. *Bellinurus iswariensis* (Chernyshev, 1928) ..... C Donetz Basin

44. *Bellinurus kiltorkensis* Baily, 1869 ..... C Coal Measues
45. *Bellinurus koenigianus* Woodward, 1872*a* ..... C Coal Measues
46. *Bellinurus lacoei* Packard, 1885 ..... C Mazon Creek
47. *Bellinurus longicaudatus* Woodward, 1907*b* ..... C Coal Measues
48. *Bellinurus lunatus* (Martin, 1809) ..... C Mansfield, UK
49. *Bellinurus metschetensis* (Chernyshev, 1928) ..... C Donetz Basin
50. *Bellinurus morgani* Dix & Pringle, 1930 ..... C South Wales, UK
51. *Bellinurus pustulosus* Dix & Pringle, 1929 ..... C South Wales, UK
52. *Bellinurus reginae* Baily, 1863 ..... C Coal Measues
53. *Belinurus* [*sic*] *sinicus* Hong, 1979 ..... C Shanxi, China
54. *Bellinurus stepanovi* (Chernyshev, 1928) ..... C Donetz Basin
55. *Bellinurus trechmanni* Woodward, 1918 ..... C Coal Measues
56. *Bellinurus trilobitoides* (Buckland, 1837)* ..... C Coalbrookdale, UK
57. *Bellinurus truemani* Dix & Pringle, 1929 ..... C South Wales, U

† ***Euproops* Meek, 1867** ..... **Carbon. – ?Permian**

= † *Prestwichia* Woodward, 1867 [preoccupied]

= † *Prestwichianella* Cockerell, 1905 [replacement name for *Prestwichia*]

58. *Euproops anthrax* (Prestwich, 1840) ..... C Coal Measues
59. *Euproops bifidus* Siegfried, 1972 ..... C Coal Measues
60. *Euproops cambrensis* Dix & Pringle, 1929 ..... C Coal Measues
61. *Euproops danae* (Meek & Worthen, 1865)* ..... C Coal Measures
    i. = *Euproops amiae* Woodward, 1918 ..... C Coal Measures
    ii. = *Euproops darrahi* Raymond, 1944 ..... C Coal Measures
    iii. = *Euproops graigolae* Dix & Pringle, 1929 ..... C South Wales
    iv. = *Euroops gwenti* Dix & Pringle, 1929 ..... C South Wales
    v. = *Euproops islwyni* Dix & Pringle, 1929 ..... C South Wales
    vi. = *Euproops kilmersdonensis* Ambrose & Romano, 1972 ..... C Kilmersdon, UK
    vii. = *Euproops laevicula* Raymond, 1944 ..... C Coal Measures
    viii. = *Euproops laticephalus* Raymond, 1944 ..... C Coal Measures
    ix. = *Euproops packardi* Willard & Jones, 1935 ..... C Coal Measures
    x. = *Prestwichia (Euproops) scheeleana* Ebert, 1892 ..... C Coal Measures
    xi. = *Euproops thompsoni* Raymond, 1944 ..... C Coal Measures
62. *Euproops longispina* Packard, 1885 ..... C Mazon Creek
63. *Euproops mariae* Crônier & Courville, 2005 ..... C Massif Central
64. *Euproops meeki* Dix & Pringle, 1929 ..... C South Wales
65. *Euproops nitida* Dix & Pringle, 1929 ..... C South Wales
66. *Euproops orientalis* Kobayashi, 1933 ..... ?P Korea
67. *Euproops rotundatus* Prestwich, 1840 ..... C Coal Measues

Euproops sp. *in* Brauckmann (1982) ..... C Piesberg, Germany

† ***Liomesaspis* Raymond, 1944** ..... **Carbon. – Permian**

= † *Pringlia* Raymond, 1944

= † *Palatinaspis* Malz & Poschmann, 1993

68. ?*Liomesaspis birtwelli* (Woodward, 1872*a*) ..... C Coal Measues
69. *Liomesaspis laevis* Raymond, 1944* ..... C Coal Measues
    i. = *Palatinaspis beimbaueri* Malz & Poschmann, 1993 ..... C Saar-Nahe Basin
    ii. = *Pringlia bispinosa* Raymond, 1944 ..... C Coal Measures
    iii. = *Pringlia demaisterei* Vandenberghe, 1961 ..... C Coal Measures
    iv. = *Pringlia fritschi* Remy & Remy, 1959 ..... C Coal Measures
70. *Liomesaspis leonardensis* (Tasch, 1961) ..... P Annelly, Kansas

† ***Prolimulus* Frič, 1899** ..... **Carboniferous**

71. *Prolimulus woodwardi* Frič, 1899* ..... C Nýřany

LIMULINA Richter & Richter, 1929 ..... **Carbon. – Recent**

unnanmed specimen *in* Krause *et al*. (2009) ..... Tr Ohrdruf, Germany

† ***Bellinuroopsis* Chernyshev, 1933** ..... **Carboniferous**

= † *Neobelinuropsis* Eller, 1938*a*

72. *Bellinuroopsis rossicus* Chernyshev, 1933* ..... C Coal Measures

† **ROLFEIIDAE Selden & Siveter, 1987** ..... **Carboniferous**

† ***Rolfeia* Waterston, 1985** ..... **Carboniferous**

73. *Rolfeia fouldenensis* Waterston, 1985* ..... C Fouldon, Scotland

† **PALEOLIMULOIDEA Raymond, 1944** ..... **Carbon. – Jurassic**

† **PALEOLIMULIDAE Raymond, 1944** ..... **Carbon. – Jurassic**

= † MESOLIMULIDAE (Størmer, 1952) [in part; see Reik & Gill 1971]
= † MORAVURIDAE Příbyl, 1967
= † DUBBOLIMULIDAE Pickett, 1984

† ***Limulitella* Størmer, 1952** ..... **Triassic – Jurassic**

= † *Limulites* Schimper, 1853 [preoccupied]

Limulitella sp. *in* Hauschke *et al*. (2004) ..... Tr Madagascar
?*Limulitella* sp. *in* Hauschke & Wilde (2008) ..... Tr Dallau, Germany
?*Limulitella* sp. *in* Hauschke *et al*. (2009) ..... Tr Winterswijk
Limulitella sp. *in* Zuber *et al*. (2017) ..... Tr Winterswijk
Limulitella or *Psammolimulus* sp. *in* Križnar & Hitij (2010) ..... Tr Slovenia

74. *Limulitella bronnii* (Schimper, 1853)* ..... Tr Grés á Voltzia
    i. = *Limulus sandbergeri* Kirchner, 1923 ..... Tr Germany
75. *Limulitella henkeli* Fritsch, 1906 ..... Tr Halle, Germany
76. ?*Limulitella liasokeuperensis* (Braun, 1860) ..... J Germany
77. *Limulitella tejraensis* Błażejowski, Niedźwiedzki, Boukhalfa & Soussi, 2017 ..... Tr Tejra, Tunisia
78. *Limulitella vicensis* (Bleicher, 1897) ..... Tr Lorraine
79. *Limulitella volgensis* Ponomarenko, 1985 ..... Tr Moscow

† ***Paleolimulus* Dunbar, 1923** ..... **Carbon. – Triassic**

= † *Dubbolimulus* Pickett, 1984

80. *Paleolimulus fuchsbergensis* Hauschke & Wilde, 1987 ..... Tr northwest Germany
81. *Paleolimulus jakovlevi* Glushenko *in* Glushenko & Ivanov, 1961 ..... P Novoselovka, Ukraine
82. ?*Paleolimulus juresanensis* Chernyshev, 1933 ..... C Ural region
83. *Paleolimulus kunguricus* Naugolnykh, 2017 ..... P Cis-Urals
84. *Paleolimulus longispinus* Schram, 1979 ..... C Bear Gulch, Montana
85. *Paleolimulus peetae* (Pickett, 1984) ..... Tr New South Wales
86. *Paleolimulus signatus* (Beecher, 1904) ..... C–P Kansas, Illinois
    i. = *Paleolimulus avitus* Dunbar, 1923* ..... P Kansas

Paleolimulus sp. *in* Ewington *et al*. (1989) ..... P Tasmania

?*Palaeolimulus* sp. *in* Hauschke & Wilde (2000) ..... Tr Harz, Germany

† ***Xaniopyramis* Siveter & Selden, 1987** ..... **Carboniferous**

87. *Xaniopyramis linseyi* Siveter & Selden, 1987* ..... C Weardale, UK

LIMULOIDEA Zittel, 1885 ..... **Carbon. – Recent**

unnamed specimen *in* Hauschke & Wilde (1989) ..... P Korbacher Bucht

Limuloidea fam., gen. et sp. indet. *in* Seegis (2014) ..... Tr Stuttgart Formation

† ***Casterolimulus* Holland, Erickson & O'Brien, 1975** ..... **Cretaceous**

88. *Casterolimulus kletti* Holland, Erickson & O'Brien, 1975* ..... K North Dakota

† ***Panduralimulus* Allen & Feldman, 2005** ..... **Permian**

89. *Panduralimulus babcocki* Allen & Feldman, 2005* ..... P Texas

† ***Valloisella* Racheboeuf, 1992** ..... **Carboniferous**

90. *Valloisella lievinensis* Racheboeuf, 1992* ..... C northern France

† **AUSTROLIMULIDAE Riek, 1955** ..... **Triassic**

† ***Austrolimulus* Riek, 1955** ..... **Triassic**

91. *Austrolimulus fletcheri* Riek, 1955* ..... Tr New South Wales

† ***Vaderlimulus* Lerner, Lucas & Lockley, 2017** ..... **Triassic**

92. *Vaderlimulus tricki* Lerner, Lucas & Lockley, 2017* ..... Tr Idaho, USA

LIMULIDAE Zittel, 1885 ..... **Triassic – Recent**

= † MESOLIMULIDAE (Størmer, 1952) [in part; see Reik & Gill (1971)]

?Limulidae gen. et sp. indet. *in* Hauschke *et al*. (1992) ..... Tr Rüdersdorf, Germany

† ***Crenatolimulus* Feldmann, Schweitzer, Dattilo & Farlow, 2011** ..... **Jurassic – Cretaceous**

93. *Crenatolimulus paluxyenis* Feldmann, Schweitzer, Dattilo & Farlow, 2011* ..... K Texas

Crenatolimulus "sp. nov." *in* Błażejowski, *et al*. (2015) ..... J Owadów- Brzezinki

***Limulus* Müller, 1785** ..... **Triassic – Recent**

94. *Limulus coffini* Reeside & Harris, 1952 ..... K Colorado
95. *Limulus darwini* Kin & Błażejowski, 2014 ..... J Kcynia, Poland
96. *"Limulus" decheni* Zinken, 1862 ..... Pa Teuchern, Germany

Hauschke & Wilde (2004) considered this intermediate between *Limulus* and *Tachypleus*

97. *Limulus priscus* Münster, 1839 ..... Tr Rottweil, Germany

98. *Limulus woodwardi* Watson, 1909 ..... J Northamptonshire

† ***Mesolimulus* Størmer, 1952** ..... **Triassic – Cretaceous**

99. *Mesolimulus crespelli* Via Boada, 1987 ..... Tr Tarragona, Spain

100. *Mesolimulus sibiricus* Ponomarenko, 1985 ..... J Siberia

101. *Mesolimulus walchi* (Desmarest, 1822)* ..... J Solnhofen, etc.

i. = *Limulus brevicauda* Münster *in* v. d. Hoeven, 1838 ....J Solnhofen

ii. = *Limulus brevispina* Münster *in* v. d. Hoeven, 1838 .....J Solnhofen

iii. = *Limulus intermedius* Münster *in* v. d. Hoeven, 1838 ...J Solnhofen

iv. = *Limulus ornatus* Münster *in* v. d. Hoeven, 1838 .....J Solnhofen

v. = *Limulus sulcatus* Münster *in* v. d. Hoeven, 1838 ..... J Solnhofen

vi. = *Limulus giganteus* Münster, 1840 ..... J Solnhofen

NB: not entirely clearly that all these names have been formally synonymised

Mesolimulus sp. *in* Ross & Vannier (2002) .....J southern England

† ***Psammolimulus* Lange, 1923** ..... **Triassic**

102. *Psammolimulus gottingensis* Lange, 1923* ..... Tr Göttingen, Germany

† ***Sloveniolimulus* Bicknell, Žalohar, Miklava, Celarc, Križnar & Hitij, 2019** .....**Triassic**

103. *Sloveniolimulus rudkini* Bicknell, Žalohar, Miklava, Celarc, Križnar & Hitij, 2019*..... Tr Slovenian Alps

***Tachypleus* Leach, 1819** ..... **Triassic – Recent**

= † *Heterolimulus* Via Boada & Villalta, 1966

104. *Tachypleus gadeai* (Via Boada & Villalta, 1966) ..... Tr Tarragona, Spain

105. *Tachypleus syriacus* (Woodward, 1879) ..... K Lebanon

† ***Tarracolimulus* Romero & Via Boada, 1977** ..... **Triassic**

106. *Tarracolimulus rieki* Romero & Via Boada, 1977* ..... Tr Tarragona, Spain

† ***Victalimulus* Riek & Gill, 1971** ..... **Cretaceous**

107. *Victalimulus mcqueeni* Riek & Gill, 1971* ..... K Koonwarra

† ***Yunnanolimulus* Zhang, Hu, Zhou, Iv & Bai, 2009** ..... **Triassic**

108. *Yunnanolimulus luopingensis* Zhang, Hu, Zhou, Iv & Bai, 2009* ..... Tr Luoping, China

INCERTAE SEDIS

† ***Belinuropsis* Matthew 1910** ..... **Carboniferous**

109. *Belinuropsis wigudensis* Matthew, 1910 ..... C Coal Measures

NOMEN DUBIUM

1. *Limulus nathorsti* Jackson, 1906 ..... J southern Sweden

NOMINA NUDA

1. *Euproops rotunda major* (Woodward, 1907) ..... C Sparth Bottoms
2. *Veltheimia bicorns* Beyschlag & von Fritsch, 1899 ..... C? Rotliegend

MISIDENTIFICATIONS

1. *Belinurus carterae* Eller, 1940 [synonym of *P. eriensis*; see below]

2. *Bifarius comptae* Tasch, 1961 [insect] ……..... P Kansas
3. *Eolimulus alatus* Moberg, 1892 [doubtful xiphosuran] …….. € Öland, Sweden
4. *Elmocephalus carltonensis* (Tasch, 1963) [?crustacean] ……..…….....…….. P Kansas
5. *Hemiaspis tunnecliffei* Chapman, 1932 [trilobite] ……..…….…….. S Victoria, Australia
6. *Hypatocephala rugosa* Tasch, 1961 [insect] ……..…….....…….. P Kansas
7. *Lemoneites ambiguus* Flower, 1969 [Echinodermata] ……..…….....…….. O Texas
8. *Lemoneites gomphocaudatus* Flower, 1969 [Echinodermata] ……..…….....…….. O Texas
9. *Lemoneites mirabilis* Flower, 1969 [Echinodermata] ……..…….....…….. O Texas
10. *Lemoneites simplex* Flower, 1969 [Echinodermata] ……..…….....…….. O Texas
11. *Pincombella belmontensis* Chapman, 1932 [insect: Hemiptera] ….....…… P New South Wales
12. *Permolimulinella raris* Tasch, 1963 [insect] ……..…….....…….. P Kansas
13. *Rutroclypeus junori* Withers, 1933 [Echinodermata: carpoid] ……..…….....…….. D Victoria, Australia
14. *Strongylocephalus charactis* Tasch, 1961 [insect] ……..…….....…….. P Kansas
15. *Protolimulus eriensis* [Xiphosuran trace fossil: see *Selenichnites*]

4 Recent species

CHASMATASPIDIDA

11 currently valid species of fossil chasmataspidid

- there are some doubts about the monophyly of Chasmataspidida

† **CHASMATASPIDIDA Caster & Brooks, 1956** ..... **?Camb. – Devonian**

= † DIPLOASPIDIDA Simonetta & Delle Cave, 1978

† **CHASMATASPIDIDAE Caster & Brooks, 1956** ..... **?Camb. – Ordovician**

† ***Chasmataspis* Caster & Brooks, 1956** ..... **?Camb. – Ordovician**

1. *Chasmataspis laurencii* Caster & Brooks, 1956* ..... O Tennessee

   ?*Chasmataspis* sp. resting traces *in* Dunlop *et al*. (2004) ..... € Texas

† **DIPLOASPIDIDAE Størmer, 1972** ..... **Silurian – Devonian**

= † HETEROASPIDIDAE Størmer, 1972

† ***Achanarraspis* Anderson, Dunlop & Trewin, 2000** ..... **Devonian**

2. *Achanarraspis reedi* Anderson, Dunlop & Trewin, 2000* ..... D Achanarras, Scotland

† ***Diploaspis* Størmer, 1972** ..... **Devonian**

3. *Diploaspis casteri* Størmer, 1972* ..... D Alken an der Mosel
4. *Diploaspis muelleri* Poschmann, Anderson & Dunlop, 2005 ..... D Hombach, Germany

† ***Dvulikiaspis* Marshall, Lamsdell, Shpinev & Braddy, 2014** ..... **Devonian**

5. *Dvulikiaspis menneri* (Novojilov, 1959)* ..... D Siberia

† ***Forfarella* Dunlop, Anderson & Braddy, 1999** ..... **Devonian**

6. *Forfarella mitchelli* Dunlop, Anderson & Braddy, 1999* ..... D Arbroath, Scotland

† ***Heteroaspis* Størmer, 1972**

7. *Heteroaspis stoermeri* (Novojilov, 1959)* ..... D Siberia; Alken
   i. = *Heteroaspis novojilovi* Størmer, 1972 ..... D Alken an der Mosel

† ***Loganamaraspis* Tetlie & Braddy, 2004*a*** ..... **Silurian**

8. *Loganamaraspis dunlopi* Tetlie & Braddy, 2004*a** ..... S Lesmahagow

† ***Nahlyostaspis* Marshall, Lamsdell, Shpinev & Braddy, 2014** ..... **Devonian**

9. *Nahlyostaspis bergstroemi* Marshall, Lamsdell, Shpinev & Braddy, 2014* ..... D Siberia

† ***Octoberaspis* Dunlop, 2002** ..... **Devonian**

10. *Octoberaspis ushakovi* Dunlop, 2002* ..... D October Rev. Is

† ***Skrytyaspis* Marshall, Lamsdell, Shpinev & Braddy, 2014** ..... **Devonian**

11. *Skrytyaspis andersoni* Marshall, Lamsdell, Shpinev & Braddy, 2014* .... D Siberia

no Recent species

EURYPTERIDA

250 currently valid species of fossil sea scorpion

- Tollerton (1989) suggested removing Hibbertopteroidea from Euryperida *s.s.*, but this has not been adopted by subsequent workers and they are treated here as derived stylonurid eurypterids

† **EURYPTERIDA Burmeister, 1843** ..... **Ordovician – Permian**

= † GIGANTOSTRACA Haeckel, 1866

= † CYRTOCTENIDA Størmer & Waterston, 1968

† **STYLONURINA Diener, 1924** ..... **Ordovician – Permian**

= † WOODWARDOPTERINA Kjellesvig-Waering, 1959

= † HIBBERTOPTERINA Størmer, 1974

† **RHENOPTEROIDEA Størmer, 1951** ..... **Ordovician – Devonian**

= † BRACHYOPTERELLOIDEA Tollerton, 1989

† **RHENOPTERIDAE Størmer, 1951** ..... **Ordovician – Devonian**

= † BRACHYOPTERELLIDAE Tollerton, 1989

† ***Brachyopterella* Kjellesvig-Waering, 1966*a*** ..... **Silurian**

1. *Brachyopterella pentagonalis* (Størmer, 1934*b*)* ..... S Ringerike, Norway
2. *Brachyopterella ritchiei* Waterston, 1979 ..... S Slot Burn, Scotland

† ***Brachyopterus* Størmer, 1951** ..... **Ordovician**

3. *Brachyopterus stubblefieldi* Størmer, 1951* ..... O Montgomeryshire

† ***Kiaeropterus* Waterston, 1979** ..... **Silurian**

4. *Kiaeropterus cyclophthalmus* (Laurie, 1892) ..... S Pentland Hills, Scotl.
5. *Kiaeropterus ruedemanni* (Størmer, 1934*b*)* ..... S Ringerike, Norway

† ***Leiopterella* Lamsdell, Braddy, Loeffler & Dineley, 2010** ..... **Devonian**

6. *Leiopterella tetliei* Lamsdell, Braddy, Loeffler & Dineley, 2010 ..... D Nunavut, Canada

† ***Rhenopterus* Størmer, 1936*a*** ..... **Devonian**

7. *Rhenopterus diensti* Størmer, 1936*a** ..... D Willwerath, Germ.
   i. = *Rhenopterus latus* Størmer, 1936*a* ..... D Willwerath, Germ.
8. *Rhenopterus macrotuberculatus* Størmer, 1974 ..... D Alken an der Mosel
9. *Rhenopterus tuberculatus* Størmer, 1936*a* ..... D Overath, Germ.

† **STYLONUROIDEA Kjellesvig-Waering, 1959** ..... **Silurian – Devonian**

† **PARASTYLONURIDAE Waterston, 1979** ..... **Siliurian – Devonian**

† ***Parastylonurus* Kjellesvig-Waering, 1966*a*** ..... **Silurian**

10. *Parastylonurus hendersoni* Waterston, 1979 ..... S Pentland Hills, Scotl.
11. *Parastylonurus ornatus* (Laurie, 1892)* ..... S Scotland
12. ?*Parastylonurus sigmoidalis* Kjellesvig-Waering, 1971 ..... S Shropshire, UK

† ***Stylonurella* Kjellesvig-Waering, 1966*a*** ..... **Silurian – Devonian**

13. *Stylonurella ?arnoldi* (Ehlers, 1935) ..... D Pennsylvania, USA

14. *Stylonurella* ?*beecheri* (Hall, 1884*c*) ..... D Pennsylvania, USA
15. *Stylonurella spinipes* (Page, 1859)* ..... S Kip Burn, Scotland
    i. = *Stylonurus logani* Woodward, 1872 ..... S Kip Burn, Scotland

† **STYLONURIDAE Diener, 1924** ..... **Silurian–Devonian**
= † LAURIEIPTERIDAE Kjellesvig-Waering, 1966*a*
= † PAGEIDAE Kjellesvig-Waering, 1966*a*

† ***Ctenopterus* Clarke & Ruedemann, 1912** ..... **Silurian**
16. *Ctenopterus cestrotus* (Clarke, 1907)* ..... S Otisville, New York

† ***Laurieipterus* Kjellesvig-Waering, 1966*a*** ..... **Silurian**
17. *Laurieipterus elegans* (Laurie, 1899)* ..... S Pentland Hills, Scotl.

† ***Pagea* Waterston, 1962** ..... **Devonian**
18. *Pagea plotnicki* Lamsdell, Braddy, Loeffler & Dineley, 2010 ..... D Nunavut, Canada
19. *Pagea sturrocki* Waterston, 1962* ..... D Old Red Sandstone
20. *Pagea symondsii* (Salter, 1859) ..... D Old Red Sandstone

† ***Stylonurus* Page, 1856** ..... **Devonian**
21. *Stylonurus powriensis* Page, 1856* ..... D Mid. Valley Scotland
    i. = *Stylonurus ensiformis* Woodward, 1864 ..... D Mid. Valley Scotland
22. ?*Stylonurus shaffneri* Willard, 1933 ..... D Pennsylvania

† **KOKOMOPTEROIDEA Kjellesvig-Waering, 1966*a*** ..... **Silurian**

† **KOKOMOPTERIDAE Kjellesvig-Waering, 1966*a*** ..... **Silurian**

† ***Kokomopterus* Kjellesvig-Waering, 1966*a*** ..... **Silurian**
23. *Kokomopterus longicaudatus* (Clarke & Ruedemann, 1912)* ..... S Kokomo, Indiana

† ***Lamontopterus* Waterston, 1979** ..... **Silurian**
24. *Lamontopterus knoxae* (Lamont, 1955)* ..... S Pentland Hills, Scotl.

† **HARDIEOPTERIDAE Tollerton, 1989** ..... **Silurian – Devonian**

† ***Hallipterus* Kjellesvig-Waering, 1963*a*** ..... **Devonian**
25. *Hallipterus excelsior* (Hall, 1884*a*)* ..... D New York
    i. = *Dolichocephala lacoana* Claypole, 1883 ..... D Pennsylvania

† ***Hardieopterus* Waterston, 1979** ..... **Silurian**
26. ?*Hardieopterus lanarkensis* Waterston, 1979 ..... S Patrick Burn, Scotl.
27. *Hardieopterus macrophthalmus* (Laurie, 1892)* ..... S Pentland Hills, Scotl.
28. *Hardieopterus megalops* (Salter, 1859) ..... S Herefordshire, Engl.
29. *Hardieopterus myops* (Clarke, 1907) ..... S eastern USA

† ***Tarsopterella* Størmer, 1951** ..... **Devonian**
30. *Tarsopterella scotica* (Woodward, 1872)* ..... D Mid. Valley Scotland
    i. = *?Erieopterus brewsteri* Woodward, 1864 ..... D Mid. Valley Scotland
    ii. = *Stylonurus armatus* Page, 1867 ..... D Mid. Valley Scotland

† **MYCTEROPOIDEA Cope, 1886** ..... **Silurian – Permian**

= † HIBBERTOPTEROIDEA Kjellesvig-Waering, 1959

† **DREPANOPTERIDAE Kjellesvig-Waering, 1966*a*** ..... **Silurian – Devonian**

† ***Drepanopterus*** **Laurie, 1892** ..... **Silurian – Devonian**

31. *Drepanopterus abonensis* Simpson, 1951 ..... D Portishead, England
32. *Drepanopterus odontospathus* Lamsdell, 2012..... D Arctic Canada
33. *Drepanopterus pentlandicus* Laurie, 1892* ..... S Pentland Hills, Scotl.

† **HIBBERTOPTERIDAE Kjellesvig-Waering, 1959** ..... **Devonain – Permian**

= † CYRTOCTENIDAE Waterston, Oelofsen & Oosthuizen, 1985

† ***Campylocephalus*** **Eichwald, 1860** ..... **Carboniferous – Perm.**

34. *Campylocephalus oculatus* (Kutorga, 1838)* ..... P Dourasovo, Russia
35. *Campylocephalus permianus* (Ponomarenko, 1985)..... P Komi, Russia
36. ?*Campylocephalus salmi* Stur, 1877 ..... C Ostrava, Czech Rep.

† ***Cyrtoctenus*** **Størmer & Waterston, 1968** ..... **Devonian – Carbon.**

37. *Cyrtoctenus caledonicus* (Salter, 1863) ..... C East Lothian, Scotl.
38. *Cyrtoctenus dewalquei* (Fraipont, 1889) ..... D Pont-de-Bonne, Belg.
    i. = *Eurypterus dewalquei* var. *longimanus* Fraipont, 1889 ..... D Pont-de-Bonne, Belg.
39. *Cyrtoctenus dicki* (Peach, 1883) ..... C Thurso, Scotland
40. *Cyrtoctenus ostraviensis* (Augusta & Přibyl, 1951) ..... C Ostrava, Czech Rep.
41. *Cyrtoctenus peachi* Størmer & Waterston, 1968* ..... C Berwickshire, Scotl.
42. *Cyrtoctenus wittebergensis* Waterston, Oelofsen & Oosthuizen, 1985 ... C Cape Province

† ***Dunsopterus*** **Waterston, 1968** ..... **Carboniferous**

43. *Dunsopterus stevensoni* (Etheridge Jr, 1877)* ..... C Berwickshire, Scotl.

† ***Hastimima*** **White, 1908** ..... **Permian**

44. *Hastimima whitei* White, 1908* ..... P Brazil

† ***Hibbertopterus*** **Kjellesvig-Waering, 1959** ..... **Carboniferous – Perm.**

45. ?*Hibbertopterus hibernicus* (Baily, 1872) ..... C Kiltorcan, Ireland
46. *Hibbertopterus scouleri* (Hibbert, 1836)*..... C West Lothian, Scotl.

† ***Vernonopterus*** **Waterston, 1957** ..... **Carboniferous**

47. *Vernonopterus minutisculptus* (Peach, 1907)* ..... C Lanarkshire, Scotland

† **MYCTEROPIDAE Cope, 1886** ..... **Carboniferous – Perm.**

= † WOODWARDOPTERIDAE Kjellesvig-Waering, 1959

† ***Megarachne*** **Hünicken, 1980** ..... **Carboniferous – Perm.**

48. *Megarachne servinei* Hünicken, 1980* ..... C–P Santa Rosa, Arge.
    originally misidentified as a giant spider

† ***Mycterops*** **Cope, 1886** ..... **Carboniferous**

49. ?*Mycterops blairi* Waterston, 1968 ..... C Loanhead, Scotland
50. *Mycterops matthieui* Pruvost, 1924 ..... C Charleroi, Belgium
51. *Mycterops ordinatus* Cope, 1886*..... C Channelton, PA
52. ?*Mycterops whitei* Schram, 1984 ..... C Crescent, Iowa

† ***Woodwardopterus*** **Kjellesvig-Waering, 1959** ..... **Carboniferous**

53. *Woodwardopterus scabrosus* (Woodward, 1887)* ..... C Glencartholm, Scotl.

STYLONURINA *incertae sedis*

† ***Stylonuroides*** **Kjellesvig-Waering, 1966*a*** ..... **Silurian – Devonian**

54. *Stylonuroides dolichopteroides* (Størmer, 1934*b*)* ..... S Ringerike, Norway

55. *Stylonuroides orientalis* Shpinev, 2012 ..... D Lake Shunet, Siberia

† **EURYPTERINA Burmeister, 1843** ..... **Ordovician – Permian**

† **ONYCHOPTERELLOIDEA Lamsdell, 2011** ..... **Ordovician–Silurian**

† **ONYCHOPTERELLIDAE Lamsdell, 2011** ..... **Ordovician–Silurian**

= † ALKENOPTERIDAE Poschmann & Tetlie, 2004

priority of the family names needs to be clarified

† ***Alkenopterus*** **Størmer, 1974** ..... **Devonian**

56. *Alkenopterus brevitelson* Størmer, 1974* ..... D Alken an der Mosel

57. *Alkenopterus burglahrensis* Poschmann & Tetlie, 2004 ..... D Westerwald, Germ.

† ***Onychopterella*** **Størmer, 1951** ..... **Ordovician–Silurian**

58. *Onychopterella augusti* Braddy, Aldridge & Theron, 1995 ..... O Soom Shale, S. Afr.

59. *Onychopterella kokomoensis* (Miller & Gurley, 1896)* ..... S Kokomo, Indiana

i. = *Eurypterus ranilarva* Clarke & Ruedemann, 1912 ..... S Kokomo, Indiana

60. ?*Onychopterella pumilus* (Savage, 1916) ..... S Essex, Illinois

† ***Tylopterella*** **Størmer, 1951** ..... **Silurian**

61. *Tylopterella boylei* (Whiteaves, 1884) ..... S Ontario, Canada

† **MOSELOPTEROIDEA Lamsdell, Braddy & Tetlie, 2010** ..... **Silurian – Devonian**

† **MOSELOPTERIDAE Lamsdell, Braddy & Tetlie, 2010** ..... **Devonian**

† ***Moselopterus*** **Størmer, 1974** ..... **Devonian**

62. *Moselopterus ancylotelson* Størmer, 1974* ..... D Alken an der Mosel

63. *Moselopterus elongatus* Størmer, 1974 ..... D Alken an der Mosel

64. *Moselopterus lancmani* (Delle, 1937) ..... D Plavinas, Latvia

† ***Stoermeropterus*** **Lamsdell, 2011** ..... **Silurian**

65. *Stoermeropterus conicus* (Laurie, 1892)* ..... S Pentland Hills

i. = *Drepanopterus bembycoides* Laurie, 1899 ..... S Pentland Hills

ii. = *Drepanopterus lobatus* Laurie, 1899 ..... S Pentland Hills

66. *Stoermeropterus latus* (Størmer, 1934*b*) ..... S Ringerike, Norway

67. *Stoermeropterus nodosus* (Kjellesvig-Waering & Leutze, 1966) ..... S Bass, West Virginia

† ***Vinetopterus*** **Poschmann & Tetlie, 2004** ..... **Devonian**

68. *Vinetopterus martini* Poschmann & Tetlie, 2004 ..... D Westerwald, Germ.

69. *Vinetopterus struvei* (Størmer, 1974)* ..... D Alken an der Mosel

† **MEGALOGRAPTOIDEA Caster & Kjellesvig-Waering, 1955** ..... **Ordovician**

† **MEGALOGRAPTIDAE Caster & Kjellesvig-Waering, 1955** ..... **Ordovician**

† ***Echinognathus*** **Walcott, 1882** ..... **Ordovician**

70. *Echinognathus clevelandi* Walcott, 1882* ..... O New York

† ***Megalograptus*** **Miller, 1874** ..... **Ordovician**

71. *Megalograptus alveolatus* (Shuler, 1915) ..... O Virginia
72. *Megalograptus ohioensis* Caster & Kjellesvig-Waering, 1955 ..... O Ohio
73. *Megalograptus shideleri* Caster & Kjellesvig-Waering, 1964 ..... O Ohio
74. *Megalograptus welchi* Miller, 1874* ..... O Ohio
75. *Megalograptus williamsae* Caster & Kjellesvig-Waering, 1964 ..... O Ohio

† **'EURYPTEROIDEA' Burmeister, 1843** ..... **Ordovician – Devonian**

Lamsdell *et al*. (2013) questioned the monophyly of this superfamily

FAMILY UNCERTAIN

† ***Pentlandopterus*** **Lamsdell, Hoşgör & Selden, 2013** ..... **Ordovician**

76. *Pentlandopterus minor* (Laurie, 1899)* ..... S Pentland Hills, Scotl.

† ***Paraeurypterus*** **Lamsdell, Hoşgör & Selden, 2013** ..... **Ordovician**

77. *Paraeurypterus anatoliensis* Lamsdell, Hoşgör & Selden, 2013*..... O Şort Tepe, Turkey

† **DOLICHOPTERIDAE Kjellesvig-Waering & Størmer, 1952** ..... **Silurian – Devonian**

† ***Clarkeipterus*** **Kjellesvig-Waering, 1966 [a/b?]** ..... **Silurian**

78. *Clarkeipterus ?otisius* (Clarke, 1907) ..... S eastern USA
79. *Clarkeipterus testudineus* (Clarke & Ruedeman, 1912)* ..... S New York

† ***Dolichopterus*** **Hall, 1859** ..... **Silurian**

80. *Dolichopterus gotlandicus* Kjellesvig-Waering, 1979..... S Gotland, Sweden
81. *Dolichopterus jewetti* Caster & Kjellesvig-Waering, 1956 ..... S New York
82. *Dolichopterus macrocheirus* Hall, 1859*..... S New York / Canada
83. *Dolichopterus siluriceps* Clarke & Ruedemann, 1912..... S New York / Canada

† ***Ruedemannipterus*** **Kjellesvig-Waering, 1966** ..... **Silurian**

84. *Ruedemannipterus stylonuroides* (Clarke & Ruedemann, 1912)*..... S Otisville, New York

† **EURYPTERIDAE Burmeister, 1843** ..... **Silurian**

† ***Eurypterus*** **de Kay, 1825** ..... **Silurian**

= † *Baltoeurypterus* Størmer, 1973

85. ?*Eurypterus cephalaspis* Salter, 1856 ..... S Herefordshire, Engl.
86. *Eurypterus dekayi* Hall, 1859 ..... S New York / Ontario
87. *Eurypterus flintstonensis* Swartz, 1923 ..... S eastern USA
88. *Eurypterus hankeni* Tetlie, 2006*a* ..... S Ringerike, Norway
89. *Eurypterus henningsmoeni* (Tetlie, 2002)..... S Bærum, Norway
90. *Eurypterus laculatus* Kjellesvig-Waering, 1958 ..... S New York / Ontario
91. *Eurypterus lacustris* Harlan, 1834 ..... S New York / Ontario
    i. = *Eurypterus pachycheirus* Hall, 1859 ..... S New York / Ontario
    ii. = *Eurypterus robustus* Hall, 1859 ..... S New York / Ontario
92. *Eurypterus leopoldi* Tetlie, 2006*a* ..... S Somerset Is., Canada

93. *Eurypterus megalops* Clarke & Ruedemann, 1912 ..... S New York
94. *Eurypterus ornatus* Leutze, 1958 ..... S Fayette, Ohio
95. *Eurypterus pittsfordensis* Sarle, 1903 ..... S Pittsford, New York
96. *Eurypterus quebecensis* Kjellesvig-Waering, 1958 ..... S Quebéc, Canada
97. *Eurypterus remipes* DeKay, 1825* ..... S New York / Ontario
    i. = *Carcinosoma trigona* (Ruedemann, 1916)..... S New York
98. *Eurypterus serratus* (Jones & Woodward, 1888) ..... S Gotland, Sweden
99. *Eurypterus tetragonophthalmus* Fischer, 1839 ..... S Saaremaa, Estonia
    i. = *Eurypterus fischeri* Eichwald, 1854 ..... S Estonia / Ukraine
    ii. = *Eurypterus fischeri* var. *rectangularis* Schmidt, 1883... S Saaremaa, Estonia

† **ERIEOPTERIDAE Tollerton, 1989** ..... **Silurian – Devonian**

† ***Erieopterus* Kjellesvig-Waering, 1958** ..... **Silurian – Devonian**

100. *Erieopterus eriensis* (Whitfield, 1882)..... S Ohio
101. *Erieopterus hypsophthalmus* Kjellesvig-Waering, 1958..... S Ohio
102. ?*Erieopterus laticeps* (Schmidt, 1883) ..... S Saaremaa, Ringerike
103. ?*Erieopterus limuloides* (Kjellesvig-Waering, 1948*a*) ..... S Kokomo, Indiana
104. *Erieopterus microphthalmus* (Hall, 1859)*..... D New York / Canada
105. ?*Erieopterus phillipsensis* Copeland, 1971..... S Cornwallis Is. Canada
106. *?Erieopterus statzi* Størmer, 1936*a* ..... D Siegburg, Germany
107. ?*Erieopterus turgidus* Stumm & Kjellesvig-Waering, 1962 ..... S Michigan

† **STROBILOPTERIDAE Lamsdell & Selden, 2013** ..... **Silurian – Devonian**

† ***Buffalopterus* Kjellesvig-Waering & Heubusch, 1962**..... **Silurian**

108. *Buffalopterus pustulosus* (Hall, 1859)*..... S New York / Ontario
    i. = *Eurypterus giganteus* Pohlman, 1882..... S New York / Ontario
    ii. = *Pterygotus globicaudatus* Pohlman, 1882..... S New York / Ontario

† ***Strobilopterus* Ruedemann, 1935** ..... **Silurian – Devonian**

    = † *Syntomopterus* Kjellesvig-Waering, 1961 [preoccupied]
    = † *Syntomopterella* Tetlie, 2007 [replacement name]

109. *Strobilopterus laticeps* (Schmidt, 1883) ..... S Saaremaa, Estonia
    i. = *Dolichopterus stoermeri* Caster & Kjellesvig-Waering, 1956 ..... S Saaremaa, Estonia
110. *Strobilopterus princetonii* (Ruedemann, 1934)* ..... D Wyoming, USA
    i. = *Erieopterus latus* Ruedemann, 1935 ..... D Wyoming, USA
111. *Strobilopterus proteus* Lamsdell & Selden, 2013 ..... D Wyoming, USA
112. *Strobilopterus richardsoni* (Kjellesvig-Waering, 1961*a**) ..... D Ohio

† **DIPLOPERCULATA Lamsdell, Hoşgör & Selden, 2013** ..... **Ordovician – Devonian**

† **CARCINOSOMATOIDEA Størmer, 1934*b*** ..... **Ordovician – Devonian**

    = † MIXOPTEROIDEA Caster & Kjellesvig-Waering, 1955

† **CARCINOSOMATIDAE Størmer, 1934*b*** ..... **Ordovician – Devonian**

† ***Carcinosoma*** **Claypole, 1890*b*** ..... **Silurian**

= † *Eurysoma* Claypole, 1890*a* [preoccupied]

113. ?*Carcinosoma harleyi* Kjellesvig-Waering, 1961*b* ..... S England

114. *Carcinosoma libertyi* Copeland & Bolton, 1960 ..... S Manitoulin I., Canada

115. *Carcinosoma newlini* (Claypole, 1890*a*)* ..... S Kokomo, Indiana

i. = *Carcinosoma ingens* Claypole, 1894 ..... S Kokomo, Indiana

116. ?*Carcinosoma punctatum* (Salter *in* Huxley & Salter, 1859) ..... S England

117. *Carcinosoma scorpioides* (Woodward, 1868) ..... S Lesmahagow

i. = *Pterygotus raniceps* Woodward, 1868 ..... S Lesmahagow

118. *Carcinosoma scoticus* (Laurie, 1899) ..... S Pentland Hills, Scotl.

119. ?*Carcinosoma spiniferum* Kjellesvig-Waering & Heubusch, 1962 ..... S Pittsford, New York

† ***Eocarcinosoma*** **Caster & Kjellesvig-Waering, 1964** ..... **Ordovician**

120. *Eocarcinosoma batrachophthalmus* Caster & Kjellesvig-Waering, 1964* ..... O Ohio

† ***Eusarcana*** **Strand, 1942** ..... **Silurian – Devonian**

= † *Eusarcus* Grote & Pitt, 1875 [preoccupied]

= † *Paracarcinosoma* Caster & Kjellesvig-Waering, 1964

121. *Eusarcana acrocephalus* (Semper, 1898) ..... S–D Barrandian area

122. *Eusarcana obesus* (Woodward, 1868) ..... S Lesmahagow

123. *Eusarcana scorpionis* (Grote & Pitt, 1875)* ..... S New York / Ontario

† ***Rhinocarcinosoma*** **Novojilov, 1962** ..... **Silurian**

124. *Rhinocarcinosoma cicerops* (Clarke, 1907) ..... S Otisville, New York

125. *Rhinocarcinosoma dosonensis* Braddy, Selden & Doan Nhat, 2002 ..... S Dô Son, Vietnam

126. *Rhinocarcinosoma vaningeni* (Clarke & Ruedemann, 1912)* ..... S Clinton, New York

† **MIXOPTERIDAE Caster & Kjellesvig-Waering, 1955** ..... **Silurian**

= † LANARKOPTERIDAE Tollerton, 1989

† ***Lanarkopterus*** **Ritchie, 1968** ..... **Silurian**

127. *Lanarkopterus dolichoschelus* (Størmer, 1936*b*)* ..... S Scotland

† ***Mixopterus*** **Ruedemann, 1921** ..... **Silurian**

128. *Mixopterus kiaeri* Størmer, 1934*b* ..... S Ringerike, Norway

129. *Mixopterus multispinosus* (Clarke & Ruedemann, 1912)* ..... S New York

130. *Mixopterus simonsoni* Schmidt, 1883 ..... S Saaremaa, Estonia

† **'WAERINGOPTEROIDEA'** ..... **Silurian – Devonian**

superfamily name appears to be derived from a thesis, a family Waeringopteridae has not been formally published

† ***Grossopterus*** **Størmer, 1934*c*** ..... **Devonian**

131. *Grossopterus overathi* (Gross, 1933)* ..... D Overath

132. *Grossopterus inexpectans* (Ruedemann, 1921) ..... D Gilboa

† ***Orcanopterus*** **Stott, Tetlie, Braddy, Nowlan, Glasser & Devereux, 2005** ..... **Ordovician**

133. *Orcanopterus manitoulinensis* Stott, Tetlie, Braddy, Nowlan, Glasser

& Devereux, 2005* ..... O Manitoulin I., Canada

† ***Waeringopterus*** **Leutze, 1961** ..... **Silurian**

134. *Waeringopterus apfeli* Leutze, 1961 ..... S New York / Ontario

135. *Waeringopterus cumberlandicus* (Swartz, 1923)* ..... S West Virginia

i. = *Eurypterus swartzi* Kjellesvig-Waering, 1958 ..... S West Virginia

† **ADELOPHTHALMOIDEA Tollerton, 1989** ..... **Devonian – Permian**

† **ADELOPHTHALMIDAE Tollerton, 1989** ..... **Devonian – Permian**

† ***Adelopthalmus*** **Jordan *in* Jordan & von Mayer, 1854** ..... **Devonian – Permian**

= † *Lepidoderma* Reuss, 1855

= † *Anthraconectes* Meek & Worthen, 1868 [a/b?]

= † *Polyzosternites* Goldenberg, 1873

= † *Glyptoscorpius* Peach, 1882

136. *Adelophthalmus approximatus* (Hall & Clarke, 1888) ..... C Pennsylvania, USA

137. *Adelophthalmus asturica* (Melendez, 1971) ..... C d'Ablana, Spain

138. *Adelophthalmus bradorensis* (Bell, 1922) ..... C N. Campbelltown

139. *Adelophthalmus cambieri* (Pruvost, 1930) ..... C Charleroi, Belgium

140. ?*Adelophthalmus carbonarius* (Chernyshev, 1933) ..... C Donets, Ukraine

141. *Adelophthalmus chinensis* (Grabau, 1920) ..... C–P Zhaozezhuang

142. *Adelophthalmus corneti* (Pruvost, 1939) ..... C Quaregnon, Belgium

143. *Adelophthalmus douvillei* (de Lima, 1890) ..... P Bussaco, Portugal

144. *Adelophthalmus dumonti* (Stainier, 1917) ..... C Mechelen-sur-Meuse

145. *Adelophthalmus granosus* Jordan *in* Jordan & von Meyer, 1854* ..... C Saarbrücken, Germ.

146. *Adelophthalmus imhofi* (Reuss, 1855) ..... C Vlkys, Czech Rep.

147. *Adelophthalmus irinae* Shpinev, 2006 ..... C Krasnoyarsk, Russia

148. *Adelophthalmus kidstoni* (Peach, 1888) ..... C Radstock, England

149. *?Adelophthalmus lohesti* (Dewalque *in* Fraipont, 1889) ..... D Pont de Bonne, Belg.

150. *Adelophthalmus luceroensis* Kues & Kietzke, 1981 ..... P New Mexico

151. *Adelophthalmus mansfieldi* (Hall, 1877) ..... C Pennsylvania

i. = *Eurypterus stylus* Hall, 1884 ..... C Pennsylvania

152. *Adelophthalmus mazonensis* (Meek & Worthen, 1868) ..... C Illinois

153. *Adelophthalmus moyseyi* (Woodward, 1907*a*) ..... C Ilkeston, Blaengarw

i. = *Eurypterus derbiensis* Woodward, 1907*a* ..... C Ilkeston, England

154. *Adelophthalmus nebraskensis* (Barbour, 1914) ..... P Nebraska

155. *Adelophthalmus pennsylvanicus* (Hall, 1877) ..... C Pennsylvania

156. ?*Adelophthalmus perornatus* (Peach, 1882) ..... C Glencartholm, Scotl.

157. *Adelophthalmus pruvosti* Kjellesvig-Waering, 1948*b* ..... C Lens, France

158. *Adelophthalmus piussii* Lamsdell, Simonetto & Selden 2013 ..... C Carnic Alps, Italy

159. ?*Adelophthalmus raniceps* Goldenberg, 1873 ..... C Saarbrücken, Germ.

160. *Adelophthalmus sellardsi* (Dunbar, 1924) ..... P Elmo, Kansas

161. *Adelophthalmus sievertsi* (Størmer, 1969) ..... D Willwerath, Germ.

i. = ?*Eurypterus trapezoides* Størmer, 1974 ..... D Nellenköpfchen, Ger.

162. *Adelophthalmus waterstoni* (Tetlie *et al*., 2004) ..... D Kimberley, Australia
163. *Adelophthalmus wilsoni* (Woodward, 1888) ..... C Radstock, England
164. *Adelophthalmus zadrai* Přibyl, 1952 ..... C Moravo-Silesia

† ***Bassipterus* Kjellesvig-Waering & Leutze, 1966** ..... **Silurian**
165. *Bassipterus virginicus* Kjellesvig-Waering & Leutze, 1966* ..... S Bass, West Virginia

† ***Eysyslopterus* Tetlie & Poschmann, 2008** ..... **Silurian**
166. *Eysyslopterus patteni* (Størmer, 1934*d*) ..... S Saaremaa, Estonia

† ***Nanahughmilleria* Kjellesvig-Waering, 1961*b*** ..... **Silurian – Devonian**
167. *Nanahughmilleria clarkei* Kjellesvig-Waering, 1964*b* ..... S Otisville, New York
168. *Nanahughmilleria norvegica* (Kiær, 1911)* ..... S Ringerike, Norway
i. = *Eurypterus minutus* Kiær, 1911 ..... S Ringerike, Norway
169. *Nanahughmilleria notosiberica* Shpinev, 2012 ..... D Krasnoyarsk, Siberia
170. ?*Nanahughmilleria prominens* (Hall, 1884*b*) ..... S Cayuga, New York
171. *Nanahughmilleria pygmaea* (Salter, 1859) ..... S Herefordshire, Engl.
172. ?*Nanahughmilleria schiraensis* (Pirozhnikov, 1957) ..... D Khakassia, Russia

† ***Parahughmilleria* Kjellesvig-Waering, 1961*b*** ..... **Silurian – Devonian**
173. *Parahughmilleria bellistriata* (Kjellesvig-Waering, 1950*a*) ..... S West Virginia
174. *Parahughmilleria hefteri* Størmer, 1973 ..... D Rhenish Massif, Ge.
175. *Parahughmilleria longa* Shpiney, 2012 ..... D Lake Shunet, Siberia
176. *Parahughmilleria maria* (Clarke, 1907) ..... S New York
177. *Parahughmilleria matarakensis* (Pirozhnikov, 1957) ..... D Khakassia, Russia
178. *Parahughmilleria salteri* Kjellesvig-Waering, 1961*b** ..... S Herefordshire, Engl.

† ***Pittsfordipterus* Kjellesvig-Waering & Leutze, 1966** ..... **Silurian**
179. *Pittsfordipterus phelpsae* (Ruedemann, 1921)* ..... S Pittsford, New York

† **PTERYGOTIOIDEA Clarke & Ruedemann, 1912** ..... **Silurian – Devonian**

† **HUGHMILLERIIDAE Kjellesvig-Waering, 1951** ..... **Silurian**

† ***Herefordopterus* Tetlie, 2006*b*** ..... **Silurian**
180. *Herefordopterus banksii* (Salter, 1856)* ..... S Herefordshire, Engl.
i. = *Eurypterus acuminatus* Salter, 1859*a* ..... S Herefordshire, Engl.

† ***Hughmilleria* Sarle, 1903** ..... **Silurian**
181. *Hughmilleria shawangunk* Clarke, 1907 ..... S eastern USA
182. *Hughmilleria socialis* Sarle, 1903* ..... S Pittsford, New York
i. = *Hughmilleria robusta* Sarle, 1903 ..... S Pittsford, New York
183. *Hughmilleria wangi* Tetlie, Selden & Ren, 2007 ..... S Hunan, China

† **SLIMONIDAE Novojilov, 1968** ..... **Silurian**

† ***Salteropterus* Kjellesvig-Waering, 1951** ..... **Silurian**
184. *Salteropterus abbreviatus* (Salter, 1859)* ..... S Herefordshire, Engl.

† ***Slimonia* Page, 1856** ..... **Silurian**
185. *Slimonia acuminata* Salter, 1856* ..... S Lesmahagow
i. = *Himantopterus maximus* Salter, 1856 ..... S Lesmahagow

186. *Slimonia boliviana* Kjellesvig-Waering, 1973 ..... S Cochabamba, Bol.

187. *Slimonia dubia* Laurie, 1899 ..... S Pentland Hills, Scotl.

† **PTERYGOTIDAE Clarke & Ruedemann, 1912** ..... **Silurian – Devonian**

= † JAEKELOPTERIDAE Størmer, 1974

† ***Acutiramus* Ruedemann, 1935** ..... **Silurian – Devonian**

188. *Acutiramus bohemicus* (Barrande, 1872) ..... S Barrandian area

i. = *Pterygotus comes* Barrande, 1872 ..... S Barrandian area

ii. = *Pterygotus mediocris* Barrande, 1872 ..... S Barrandian area

iii. = *Pterygotus blahai* Semper, 1898 ..... S Barrandian area

iv. = *Pterygotus fissus* Seemann, 1906 ..... S Barrandian area

189. *Acutiramus cummingsi* (Grote & Pitt, 1875) ..... S USA / Canada

i. = *Pterygotus acuticaudatus* Pohlman, 1882 ..... S New York

ii. = *Pterygotus buffaloensis* Pohlman, 1881..... S New York

iii. = *Pterygotus quadraticaudatus* Pohlman, 1882 ..... S New York

190. *Acutiramus floweri* Kjellesvig-Waering & Caster, 1955 ..... S Kenwood, New York

191. *Acutiramus macrophthalmus* (Hall, 1859)*..... S USA / Canada

i. = *Pterygotus osborni* Hall, 1859 ..... S New York

ii. = *Pterygotus cobbi* var. *juvenis* Clarke & Ruedemann, 1912 ..... S New York

192. *Acutiramus perneri* Chlupáč, 1994 ..... D Barrandian area

193. *Acutiramus perryensis* Leutze, 1958 ..... S Ohio

194. *Acutiramus suwanneensis* Kjellesvig-Waering, 1955 ..... S? Florida

† ***Ciurcopterus* Tetlie & Briggs, 2009** ..... **Silurian**

195. *Ciurcopterus sarlei* (Ciurca & Tetlie, 2007) ..... S Pittsford, New York

196. *Ciurcopterus ventricosus* (Kjellesvig-Waering, 1948*a*)* ..... S Kokomo, Indiana

† ***Erettopterus* Salter *in* Huxley & Salter, 1859** ..... **Silurian – Devonian**

= † *Truncatiramus* Kjellesvig-Waering, 1961*b*

197. *Erettopterus bilobus* (Salter, 1856)* ..... S Lesmahagow

i. = *Eurypterus perornatus* Salter, 1856..... S Lesmahagow

ii. = *Pterygotus bilobus* var. *acidens* Woodward, 1878..... S Lesmahagow

iii. = *Pterygotus bilobus* var. *crassus* Woodward, 1878..... S Lesmahagow

iv. = *Pterygotus bilobus* var. *inornatus* Woodward, 1878... S Lesmahagow

v. = *Pterygotus bilobus* var. *perornatus* Woodward, 1878. S Lesmahagow

vi. = *Pterygotus perornatus* var. *plicatissimus* Salter *in* Huxley & Salter, 1859 ..... S Lesmahagow

198. *Erettopterus brodiei* Kjellesvig-Waering, 1961*b* ..... S Herefordshire, Engl.

199. *Erettopterus canadensis* (Dawson, 1879) ..... S Ontario, Canada

200. *Erettopterus exophthalmus* Kjellesvig-Waering & Leutze, 1966 ..... S Bass, West Virginia

201. *Erettopterus gigas* Salter *in* Huxley & Salter, 1859 ..... S Herefordshire, Engl.

202. *Erettopterus globiceps* Clarke & Ruedemann, 1912 ..... S eastern USA

203. *Erettopterus grandis* Pohlman, 1881 ..... S New York

204. *Erettopterus holmi* (Størmer, 1934*b*) ..... S Ringerike, Norway
205. *Erettopterus laticauda* Schmidt, 1883 ..... S Saaremaa, Estonia
206. *Erettopterus marstoni* Kjellesvig-Waering, 1961*b* ..... S England
207. *Erettopterus megalodon* Kjellesvig-Waering, 1961*b* ..... S England
208. *Erettopterus osiliensis* Schmidt, 1883 ..... S Saaremaa, Estonia
209. *Erettopterus saetiger* Kjellesvig-Waering, 1964*a* ..... S Pennsylvania
210. *Erettopterus serratus* Kjellesvig-Waering, 1961*b* ..... D Ohio
211. *Erettopterus spatulatus* Kjellesvig-Waering, 1961*b* ..... S Herefordshire, Engl.
212. ?*Erettopterus vogti* Størmer, 1934*a* ..... D Spitsbergen
213. *Erettopterus waylandsmithi* Kjellesvig-Waering & Caster, 1955 ..... S Kenwood, New York

† ***Jaekelopterus* Waterston, 1964** ..... **Devonian**

214. *Jaekelopterus howelli* Kjellesvig-Waering & Størmer, 1952 ..... D Wyoming
    i. = *Pterygotus mcgrewi* Kjellesvig-Waering & Richardson *In* Kjellesvig-Waering (1986) [*nomen nudum*] ..... D Wyoming
215. *Jaekelopterus rhenaniae* (Jaekel, 1914)* ..... D Germany

† ***Necrogammarus* Woodward, 1870** ..... **Silurian**

216. *Necrogammarus salweyi* Woodward, 1870 ..... S Herefordshire, Engl.

† ***Pterygotus* Agassiz, 1839** ..... **Silurian – Devonian**

= † *Curviramus* Reudemann, 1935

217. *Pterygotus anglicus* Agassiz, 1844* ..... D Scotland, Canada
    i. = *Pterygotus atlanticus* Clarke & Ruedemann, 1912 ..... D New Brunswick, Can.
    ii. = *Pterygotus minor* Woodward, 1864 ..... D Scotland
218. *Pterygotus arcuatus* Salter *in* Huxley & Salter, 1859 ..... S Herefordshire, Engl.
219. ?*Pterygotus australis* McCoy, 1899 ..... S Melbourne, Australia
220. *Pterygotus barrandei* Semper, 1898 ..... S Barrandian area
    i. = *Pterygotus beraunensis* Semper, 1898 ..... S Barrandian area
221. *Pterygotus bolivianus* Kjellesvig-Waering, 1964*a* ..... D Belen, Bolivia
222. *Pterygotus carmani* Kjellesvig-Waering, 1961 ..... D Ohio
223. *Pterygotus cobbi* Hall, 1859 ..... S New York / Canada
224. *Pterygotus denticulatus* Kjellesvig-Waering, 1961*b* ..... S Herefordshire, Engl.
225. *Pterygotus floridanus* Kjellesvig-Waering, 1950*b* ..... D Florida
226. *Pterygotus gaspesiensis* Russell, 1953 ..... D Québec, Canada
227. ?*Pterygotus grandidentatus* Kjellesvig-Waering, 1961*b* ..... S England
228. *?Pterygotus impacatus* Kjellesvig-Waering, 1964*a* ..... S Saaremaa, Estonia
229. *Pterygotus kopaninensis* Barrande, 1872 ..... S Barrandian area, Cz.
230. *Pterygotus lanarkensis* Kjellesvig-Waering, 1964*a* ..... S Lesmahagow, Scotl.
231. *Pterygotus lightbodyi* Kjellesvig-Waering, 1961*b* ..... S England
232. *Pterygotus ludensis* Salter *in* Huxley & Salter, 1859 ..... S Herefordshire, Engl.
233. *Pterygotus marylandicus* Kjellesvig-Waering, 1964*a* ..... S Maryland
234. *Pterygotus monroensis* Sarle 1902 ..... S New York

EURYPTERIDA *incertae sedis*

† ***Dorfopterus* Kjellesvig-Waering, 1955** ..... **Devonian**

235. *Dorfopterus angusticollis* Kjellesvig-Waering, 1955* ..... D Wyoming

† ***?Dolichopterus***

236. *?Dolichopterus asperatus* Kjellesvig-Waering, 1961 [a/b?] ..... D Ohio

237. *?Dolichopterus bulbosus* Kjellesvig-Waering, 1961*b* ..... S Herefordshire, Engl.

238. *?Dolichopterus herkimerensis* Caster & Kjellesvig-Waering, 1956 ..... S New York / Canada

† ***?Eurypterus***

239. *?Eurypterus loi* Chang, 1957 [non eurypterid?] ..... S Hubei, China

240. *?Eurypterus podolicus* Chernyshev, 1947 ..... S Ukraine

241. *?Eurypterus satpaevi* Simorin, 1956..... C Karaganda, Kazakh.

242. *?Eurypterus styliformis* Chang, 1957 [non eurypterid?]..... S Hubei, China

243. *?Eurypterus tschernyschevi* Simorin, 1956..... C Karaganda, Kazakh.

244. *?Eurypterus yangi* Chang, 1957 [non eurypterid?] ..... S Hubei, China

† ***Holmipterus* Kjellesvig-Waering, 1979** ..... **Silurian**

245. *Holmipterus suecicus* Kjellesvig-Waering, 1979..... S Gotland, Sweden

† ***Marsupipterus* Caster & Kjellesvig-Waering, 1955** ..... **Silurian**

246. *Marsupipterus sculpturatus* Caster & Kjellesvig-Waering, 1955* ..... S Herefordshire, Engl.

† ***?Nanahughmilleria***

247. *?Nanahughmilleria lanceolata* Salter, 1856..... S Lesmahagow

i. = *Eurypterus chartarius* Salter, 1859 ..... S Lesmahagow

ii. = *Eurypterus linearis* Salter, 1859 ..... S Lesmahagow

† ***?Salteropterus***

248. *?Salteropterus longilabium* Kjellesvig-Waering, 1961*b*..... S Welsh Borderlands

† ***?Stylonurus***

249. *?Stylonurus perspicillum* Størmer, 1969..... D Willwerath, Germany

† ***Unionopterus* Chernyshev, 1948** ..... **Carboniferous**

250. *Unionopterus anastasiae* Chernyshev, 1948* ..... C Kazakhstan

NOMINA DUBIA

1. *Bunodella horrida* Matthew, 1888 [*non* Xiphosura] ..... S New Brunswick
2. *?Dunsopterus wrightianus* Dawson 1881 ..... D New York
3. *Eurypterella ornata* Matthew, 1888 ..... C 'Fern Ledges'
4. *Eurypterus potens* Hall, 1884 ..... C Pennsylvania
5. *Eurypterus pulicaris* Salter, 1863 ..... D New Brunswick
6. *Hastimima sewardi* Strand, 1926 ..... D South Africa
7. *?Pterygotus formosus* Dawson, 1871..... D Gaspé, Canada
8. *Pterygotus nobilis* Barrande, 1872 ..... S Barrandian area
9. *Pterygotus siemiradzkii* Strand, 1926 ..... D Podolia, Ukraine
10. *Pterygotus taurinus* Salter, 1868 ..... S Ewyas Harold, Engl.
11. *?Slimonia stylops* Salter *in* Huxley & Salter, 1859 ..... S Herefordshire, Engl.

NOMINA NUDA

1. *Baltoeurypterus latus* Hanken & Størmer, 1975 ..... S Ringerike, Norway

NOMINA VANA

1. *Pterygotus problematicus* Agassiz, 1844 ..... S United Kingdom

MISIDENTIFICATIONS

1. *Buffalopterus verrucosus* Kjellesvig-Waering & Heubusch, 1962 [crustacean] ... O New York
2. *Carcinosoma ?logani* (Williams, 1915) [crustacean] ..... S Ontario, Canada
3. *Eurypterus* (*Stylonurus*?) *maccarthyi* Kjellesvig-Waering, 1934 [cephalopod] .... D Ludlowville, New York
4. *Eurypterus pugio* Barrande, 1872 [crustacean] ..... S Barrandian area
5. *Eurypterus thomasi* Walter, 1924 [aglaspidid] ..... Є Wisconsin
6. *Kockurus grandis* Chlupáč, 1995 [?aglaspidid] ..... Є central Bohemia
7. *Kodymirus vagans* Chlupáč & Havlíček, 1965 [?aglaspidid] ..... Є central Bohemia
8. *Mazonipterus cyclophthalmus* Kjellesvig-Waering, 1963b [plant] ..... C Mazon Creek
9. *Melbournopterus crossotus* Caster & Kjellesvig-Waering, 1953 [brachiopod] ... S Melbourne, Australia
10. *Pterygotus expectatus* Barrande, 1872 [crustacean] ..... S Barrandian area
11. *Pterygotus* (*Curviramus*) *elleri* Ruedemann, 1935 [crustacean] ..... D New York
12. *Pterygotus* (*Curviramus*) *montanensis* Ruedemann, 1935 [crustacean] ..... D Montana
13. *Pterygotus* (*Leptocheles*) *leptodactylum* M'Coy, 1849 [crustacean] ..... S Herefordshire, Engl.

PSEUDOFOSSILS

1. *Brachyopterella magna* (Clarke & Ruedemann, 1912) ..... O New York
2. ?*Carcinosoma linguata* (Clarke & Ruedemann, 1912) ..... O New York
3. ?*Carcinosoma longiceps* (Clarke & Ruedemann, 1912) ..... O New York
4. *Dolichopterus antiquus* Ruedemann, 1942 ..... O New York
5. *Dolichopterus frankfortensis* (Clarke & Ruedemann, 1912) ..... O New York
6. *Dolichopterus insolitus* Ruedemann, 1926 ..... O New York
7. ?*Dolichopterus stellatus* (Clarke & Ruedemann, 1912) ..... O New York
8. ?*Drepanopterus ruedemanni* (O'Connell, 1916) ..... O New York
9. ?*Eocarcinosoma breviceps* (Ruedemann, 1926) ..... O New York
10. *Eocarcinosoma ruedemanni* (Flower, 1945) ..... O New York
11. *Eocarcinosoma triangulatus* (Clarke & Ruedemann, 1912) ..... O New York
12. *Erettopterus walcotti* (Ruedemann, 1926) ..... O New York
13. *Erieopterus chadwicki* (Clarke & Ruedemann, 1912) ..... O New York
14. *Erieopterus hudsonicus* (Ruedemann, 1934) ..... O New York
15. ?*Eurypterus decepiens* (Ruedemann, 1942) ..... O New York
16. *Eurypterus indicus* Dubey, 1985 ..... pЄ M. Pradesh, India
17. ?*Eurypterus pristinus* (Clarke & Ruedemann, 1912) ..... O New York
18. *Eurypterus vermai* Dubey, 1985 ..... pЄ M. Pradesh, India
19. *Hughmilleria chiplonkari* Dubey, 1985 ..... pЄ M. Pradesh, India
20. *Hughmilleria kilfoylei* Ruedemann, 1934 ..... O New York

21. *Hughmilleria prisca* Ruedemann, 1934 ..... O New York
22. *Hughmilleria uticana* Ruedemann, 1926 ..... O New York
23. *Parastylonurus rusti* (Ruedemann, 1926) ..... O New York
24. *Pterygotus deepkillensis* Ruedemann, 1934 ..... O New York
25. *Pterygotus nasutus* Clarke & Ruedemann, 1912 ..... O New York
26. ?*Pterygotus normanskillensis* Clarke & Ruedemann, 1912 ..... O New York
27. *Ruedemannipterus breviceps* (Clarke & Ruedemann, 1912) ..... O New York
28. *Ruedemannipterus latifrons* (Clarke & Ruedemann, 1912) ..... O New York
29. *Stylonurella modestus* (Clarke & Ruedemann, 1912) ..... O New York
30. *Stylonuroides limbatus* (Clarke & Rudemann, 1912) ..... O New York
31. ?*Waeringopterus pristinus* (Ruedemann, 1942) ..... O New York
32. *Waeringopterus prolificus* (Clarke & Ruedemann, 1912) ..... O New York

no Recent species

SCORPIONES

145 currently valid species of fossil scorpion

SCORPIONES C. L. Koch, 1851 ..... **Silurian – Recent**

† Plesion (Family) PROSCORPIIDAE Scudder, 1885 ..... **Silurian – Carbon.**

= † ARCHAEOCTONIDAE Petrunkevitch, 1949

= † HYDROSCORPIONIDAE Kjellesvig-Waering, 1986

= † LABRIOSCORPIONIDAE Kjellesvig-Waering, 1986

= † STOERMEROSCORPIONIIDAE Kjellesvig-Waering, 1986

= † WAERINGOSCORPIONIDAE Størmer, 1970

† ***Archaeoctonus*** **Pocock, 1911** ..... **Carboniferous**

1. *Archaeoctonus glaber* (Peach, 1883)* ..... C Glencartholm

† *Hydroscorpius* Kjellesvig-Waering, 1986 ..... **Devonian**

2. *Hydroscorpius denisoni* Kjellesvig-Waering, 1986* ..... D Wyoming

† *Labriscorpio* Leary, 1980 ..... **Carboniferous**

3. *Labriscorpio alliedensis* Leary, 1980* ..... C Illinois

† *Proscorpius* Whitfield, 1885*b* ..... **Silurian**

= † *Archaeophonus* Kjellesvig-Waering, 1966*b*

= † *Stoermeroscorpio* Kjellesvig-Waering, 1986

4. *Proscorpius osborni* (Whitfield, 1885*a*)* ..... S 'Bertie Waterlime'

i. = *Archaeophonus eurypteroides* Kjellesvig-Waering, 1966*b** ..... S 'Bertie Waterlime'

ii. = *Stoermeroscorpio delicatus* Kjellesvig-Waering, 1986 S 'Bertie Waterlime'

† ***Pseudoarchaeoctonus*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

5. *Pseudoarchaeoctonus denticulatus* Kjellesvig-Waering, 1986* ..... C Glencartholm

† *Waeringoscorpio* Størmer, 1970 ..... **Devonian**

6. *Waeringoscorpio hefteri* Størmer, 1970* ..... D Alken an der Mosel

7. *Waeringoscorpio westerwaldensis* Poschmann, Dunlop, Kamenz & Scholtz, 2008 ..... D Westerwald

† **BILOBOSTERNINA Kjellesvig-Waering, 1986 (suborder)** ..... **Silurian – Devonian**

† **BRANCHIOSCORPIONOIDEA Kjellesvig-Waering, 1986** ..... **Devonian**

† **BRANCHIOSCORPIONIIDAE Kjellesvig-Waering, 1986** ..... **Devonian**

† ***Branchioscorpio*** **Kjellesvig-Waering, 1986** ..... **Devonian**

8. *Branchioscorpio richardsoni* Kjellesvig-Waering, 1986* ..... D Wyoming

† **DOLICHOPHONIIDAE Petrunkevitch, 1953** ..... **Silurian**

† ***Dolichophonus*** **Petrunkevitch, 1949** ..... **Silurian**

9. *Dolichophonus loudonensis* (Laurie, 1899)* ..... S Pentland Hills

† **HOLOSTERNINA Kjellesvig-Waering, 1986** ..... **Devonian**

† **ACANTHOSCORPIONOIDEA Kjellesvig-Waering, 1986** ..... **Devonian**

† **ACANTHOSCORPIONIIDAE Kjellesvig-Waering, 1986** ..... **Devonian**

† ***Acanthcoscorpio* Kjellesvig-Waering, 1986** ..... **Devonian**

10. *Acanthoscorpio mucronatus* Kjellesvig-Waering, 1986* ..... D Wyoming

† **STENOSCORPIONIIDAE Kjellesvig-Waering, 1986** ..... **Triassic**

† ***Stenoscorpio* Kjellesvig-Waering, 1986** ..... **Triassic**

11. *Stenoscorpio gracilis* (Wills, 1910)* ..... Tr Keuper sandstone

12. *Stenoscorpio pseudogracilis* (Wills, 1947) ..... Tr Keuper sandstone

† **ALLOPALAEOPHONOIDEA Kjellesvig-Waering, 1986** ..... **Silurian**

† **ALLOPALAEOPHONIDAE Kjellesvig-Waering, 1986** ..... **Silurian**

† ***Allopalaeophonus* Kjellesvig-Waering, 1986** ..... **Silurian**

13. *Allopalaeophonus caledonicus* (Hunter, 1886)* ..... S Logan Water

i. = *Palaeophonus hunteri* Pocock, 1901 ..... S Logan Water

† **EOCTONOIDEA Kjellesvig-Waering, 1986** ..... **Carboniferous**

† **ALLOBUTHISCORPIIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

Allobuthiscorpius is now a junior synonym (see below)

† ***Aspiscorpio* Kjellesvig-Waering, 1986** ..... **Carboniferous**

14. *Aspiscorpio eageri* Kjellesvig-Waering, 1986* ..... C Sparth Bottoms

Aspiscorpio sp. *in* Poschmann (2009) ..... C Saar

† **ANTHRACOSCORPIONIDAE Frič, 1904** ..... **Carboniferous**

† ***Allobuthus* Kjellesvig-Waering, 1986** ..... **Carboniferous**

15. *Allobuthus pescei* (Vachon & Heyler, 1985)* ..... C Montceau-les-Mines

† ***Anthracoscorpio* Kušta, 1885** ..... **Carboniferous**

16. *Anthracoscorpio dunlopi* Pocock, 1911 ..... C Airdrie

17. *Anthracoscorpio juvenis* Kušta, 1885* ..... C Rakovník

† **BUTHISCORPIIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Buthiscorpius* Petrunkevitch, 1953** ..... **Carboniferous**

18. *Buthiscorpius lemayi* Kjellesvig-Waering, 1986 ..... C Illinois

† **EOCTONIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Eoctonus* Petrunkevitch, 1913** ..... **Carboniferous**

19. *Eoctonus miniatus* Petrunkevitch, 1913* ..... C Mazon Creek

† **GARNETTIIDAE Dubinin, 1962** ..... **Carboniferous**

† ***Garnettius*** **Petrunkevitch, 1953** ..... **Carboniferous**

20. *Garnettius hungerfordi* (Elias, 1936)* ..... C Garnett, Kansas

† **GIGANTOSCORPIONOIDEA Kjellesvig-Waering, 1986** ..... **Devonian – Carbon.**

† **GIGANTOSCORPIONIDAE Kjellesvig-Waering, 1986** ..... **Devonian – Carbon.**

= † PETALOSCORPIONIDAE Kjellesvig-Waering, 1986

† ***Gigantoscorpio*** **Størmer, 1963** ..... **Carboniferous**

21. *Gigantoscorpio willsi* Størmer, 1963* ..... C Glencartholm

† ***Petaloscorpio*** **Kjellesvig-Waering, 1986** ..... **Devonian**

22. *Petaloscorpio bureaui* Kjellesvig-Waering, 1986* ..... D Miguasha, Quebec

† **MESOPHONOIDEA Wills, 1910** ..... **Carbon. – Triassic**

† **CENTROMACHIDAE Petrunkevitch, 1953** ..... **Carboniferous**

= † ANTHRACOCHAERILIDAE Kjellesvig-Waering, 1986

= † OPSIEOBUTHIDAE Kjellesvig-Waering, 1986

= † PHOXISCORPIONIDAE Kjellesvig-Waering, 1986

† ***Anthracochaerilus*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

23. *Anthracochaerilus palustris* Kjellesvig-Waering, 1986* ..... C Glencartholm

† ***Centromachus*** **Thorell & Lindström, 1885** ..... **Carboniferous**

24. *Centromachus euglyptus* (Peach, 1883)* ..... C Glencartholm

† ***Opsieobuthus*** **Kjellesvig-Waering, 1986** ..... **Carbon. - Permian**

25. *Opsieobuthus pottsvillensis* (Moore, 1923)* ..... C Indiana

26. *?Opsieobuthus tungeri* Dunlop, Legg, Selden, Fet, Schneider & Rößler, 2016..... P Chemnitz, Germany

† ***Phoxiscorpio*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

27. *Phoxiscorpio peachi* Kjellesvig-Waering, 1986* ..... C Dalmeny, Edinburgh

† ***Pulmonoscorpio*** **Jeram, 1994*a*** ..... **Carboniferous**

28. *Pulmonoscorpius kirktonensis* Jeram, 1994*a** ..... C East Kirkton

† **GALLIOSCORPIONIDAE Lourenço & Gall, 2004** ..... **Triassic**

† ***Gallioscorpio*** **Lourenço & Gall, 2004** ..... **Triassic**

29. *Gallioscorpio voltzi* Lourenço & Gall, 2004* ..... Tr Vosges, France

† **HELOSCORPIONIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Heloscorpio*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

30. *Heloscorpio sutcliffei* (Woodward, 1907*b*)* ..... C Sparth Bottoms

† **MAZONIIDAE Petrunkevitch, 1913** ..... **Carboniferous**

† ***Mazonia*** **Meek & Worthen, 1868*b*** ..... **Carboniferous**

31. *Mazonia wardingleyi* (Woodward, 1907*b*) ..... C Sparth Bottoms

32. *Mazonia woodiana* Meek & Worthen, 1868*b** ..... C Mazon Creek

† **MESOPHONIDAE Wills, 1910** ..... **Triassic**

† ***Mesophonus*** **Wills, 1910** ..... **Triassic**

33. *Mesophonus perornatus* Wills, 1910* ..... Tr Keuper sandstone

i. = *Mesophonus opisthophthalmus* Wills, 1947 ..... Tr Keuper sandstone

34. ?*Mesophonus pulcherrimus* Wills, 1910 ..... Tr Keuper sandstone

35. ?*Mesophonus pulcherrimus immaculatus* Wills, 1947 ..... Tr Keuper sandstone

† **WILLSISCORPIONIDAE Kjellesvig-Waering, 1986** ..... **Triassic**

† ***Willsiscorpio*** **Kjellesvig-Waering, 1986** ..... **Triassic**

36. *Willsiscorpio bromsgroviensis* (Wills, 1910)* ..... Tr Keuper sandstone

† **PALAEOSCORPOIDEA Lehmann, 1944** ..... **Devonain – Triassic**

† **PALAEOSCORPIONIDAE Lehmann, 1944** ..... **Devonian**

† ***Palaeoscorpio*** **Lehmann, 1944** ..... **Devonian**

37. *Palaeoscorpius devonicus* Lehmann, 1944* ..... D Hunsrückschiefer

Kühl *et al*. (2012) simply listed the genus unplaced under Protoscorpionina

† **SPONGIOPHONOIDEA Kjellesvig-Waering, 1986** ..... **Devonian –Triassic**

† **PRAERCTURIDAE Kjellesvig-Waering, 1986** ..... **Devonian**

† ***Praearcturus*** **Woodward, 1871*a*** ..... **Devonian**

38. *Praearcturus gigas* Woodward, 1871*a** ..... D Rowlestone

† **SPONGIOPHONIDAE Kjellesvig-Waering, 1986** ..... **Triassic**

† ***Spongiophonus*** **Wills, 1947** ..... **Triassic**

39. *Spongiophonus pustulosus* Wills, 1947* ..... Tr Keuper sandstone

† **MERISTOSTERNINA Kjellesvig-Waering, 1986** ..... **Carboniferous**

† **CYCLOPHTHALMOIDEA Thorell & Lindström, 1885** ..... **Carboniferous**

† **CYCLOPHTHALMIDAE Thorell & Lindström, 1885** ..... **Carboniferous**

† ***Cyclophthalmus*** **Corda, 1835** ..... **Carboniferous**

40. *Cyclophthalmus senior* Corda, 1835* ..... C Cholme

41. *Cyclophthalmus robustus* Kjellesvig-Waering, 1986 ..... C Coseley

42. ?*Cyclophthalmus sibiricus* Novojilov & Størmer, 1963 ..... C Kemerov Region

† **MICROLABIIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Microlabis*** **Corda, 1839** ..... **Carboniferous**

43. *Microlabis sternbergii* Corda, 1839* ..... C Cholme

† **PALAEOBUTHOIDEA Kjellesvig-Waering, 1986** ..... **Carboniferous**

† **PALAEOBUTHIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Palaeobuthus*** **Petrunkevitch, 1913** ..... **Carboniferous**

= † *Mazoniscorpio* Wills, 1960

44. *Palaeobuthus distinctus* Petrunkevitch, 1913* ..... C Mazon Creek
    i. = *Mazoniscorpio mazonensis* Wills, 1960 ..... C Mazon Creek

† **LOBOSTERNINA Pocock, 1911** ..... **Silurian – Carbon.**

† **ISOBUTHOIDEA Petrunkevitch, 1913** ..... **Carboniferous**

† **EOBUTHIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Eobuthus* Frič, 1904** ..... **Carboniferous**

45. *Eobuthus cordai* Kjellesvig-Waering, 1986 ..... C Kralupy Hill
46. *Eobuthus holti* Pocock, 1911 ..... C Sparth Bottoms
47. *Eobuthus rakovnicensis* Frič, 1904* ..... C Rakovník

† **EOSCORPIIDAE Scudder, 1884** ..... **Carboniferous**

† ***Eoscorpius* Meek & Worthen, 1868*a*** ..... **Carboniferous**

= † *Alloscorpius* Petrunkevitch, 1949
= † *Europhthalmus* Petrunkevitch, 1949
= † *Lichnophthalmus* Petrunkevitch, 1949
= † *Trigonoscorpio* Petrunkevitch, 1913
= † *Typhloscorpius* Petrunkevitch, 1949

48. *Eoscorpius bornaensis* Sterzel, 1918 ..... C Chemnitz–Borna
49. *Eoscorpius carbonarius* Meek & Worthen, 1868*a** ..... C Mazon Creek
    i. = *Eoscorpius typicus* Petrunkevitch, 1913 ..... C Mazon Creek
    ii. = *Eoscorpius granulosus* Petrunkevitch, 1913 ..... C Mazon Creek
    iii. = *Trigonoscorpio americanus* Petrunkevitch, 1913 ..... C Mazon Creek
50. *Eoscorpius casei* Kjellesvig-Waering, 1986 ..... C Nova Scotia
51. *Eoscorpius distinctus* (Petrunkevitch, 1949) ..... C Coseley
52. *Eoscorpius mucronatus* Kjellesvig-Waering, 1986 ..... C Barnsley
53. *Eoscorpius pulcher* (Petrunkevitch, 1949) ..... C Barnsley
    i. = *Europhthalmus longimanus* Petrunkevitch, 1949 ..... C Barnsely
54. *Eoscorpius sparthensis* Baldwin & Sutcliffe, 1904 ..... C Sparth Bottoms

Eoscorpius sp. *in* Poschmann *et al.* (2016) ..... C Graissessac, France

† ***Eskioscorpio* Kjellesvig-Waering, 1986** ..... **Carboniferous**

55. *Eskiscorpio parvus* Kjellesvig-Waering, 1986* ..... C Glencartholm

† ***Trachyscorpio* Kjellesvig-Waering, 1986** ..... **Carboniferous**

56. *Trachyscorpio squarrosus* Kjellesvig-Waering, 1986* ..... C Fouldon

† **ISOBUTHIDAE Petrunkevitch, 1913** ..... **Carbon. – Triassic**

† ***Boreoscorpio* Kjellesvig-Waering, 1986** ..... **Carboniferous**

57. *Boreoscorpio copelandi* Kjellesvig-Waering, 1986* ..... C Nova Scotia

† ***Bromsgroviscorpio* Kjellesvig-Waering, 1986** ..... **Triassic**

58. *Bromsgroviscorpio willsi* Kjellesvig-Waering, 1986* ..... Tr Keuper sandstone

† ***Feistmantelia* Frič, 1904** ..... **Carboniferous**

59. *Feistmantelia ornata* Frič, 1904* ..... C Studnoves

† ***Isobuthus*** **Frič, 1904** ..... **Carboniferous**

60. *Isobuthus kralupensis* (Thorell & Lindström, 1885)* ..... C Kralup

61. ?*Isobuthus nyranensis* Frič, 1904 ..... C Nýřany

† **KRONOSCORPIONIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Kronoscorpio*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

62. *Kronoscorpio danielsi* (Petrunkevitch, 1913)* ..... C Mazon Creek

† **PAREOBUTHIDAE Wills, 1959** ..... **Carboniferous**

† ***Pareobuthus*** **Wills, 1959** ..... **Carboniferous**

63. *Pareobuthus salopiensis* Wills, 1959* ..... C Shropshire

† **PARAISOBUTHOIDEA Kjellesvig-Waering, 1986** ..... **Carboniferous**

† **PARAISOBUTHIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Paraisobuthus*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

64. *Paraisobuthus duobicarinatus* Kjellesvig-Waering, 1986 ..... C Shipley

65. *Paraisobuthus frici* Kjellesvig-Waering, 1986 ..... C Kralupy Hill

66. *Paraisobuthus prantli* Kjellesvig-Waering, 1986* ..... C Rakovník

67. *Paraisobuthus virginiae* Kjellesvig-Waering, 1986 ..... C Mazon Creek

Parisobuthus [*sic*] sp. *in* Gutiérrez-Marco *et al*. (2005) ..... C León, Spain

† **SCOLOPOSCORPIONIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Benniescorpio*** **Wills, 1960** ..... **Carboniferous**

68. *Benniescorpio tuberculatus* (Peach, 1883)* ..... C Dysart, Fife

† ***Scoloposcorpio*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

69. *Scoloposcorpio cramondensis* Kjellesvig-Waering, 1986* ..... C Cramond, Edinburgh

† **TELMATOSCORPIONIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Telmatoscorpio*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

70. *Telmatoscorpio brevipectus* Kjellesvig-Waering, 1986* ..... C Mazon Creek

† **LOBOARCHAEOCTONOIDEA Kjellesvig-Waering, 1986** ..... **Carboniferous**

† **LOBOARCHAEOCTONIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Loboarchaeoctonus*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

71. *Loboarchaeoctonus squamosus* Kjellesvig-Waering, 1986* ..... C Glencartholm

† **WATERSTONIIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Waterstonia*** **Kjellesvig-Waering, 1986** ..... **Carboniferous**

72. *Waterstonia airdriensis* Kjellesvig-Waering, 1986* ..... C Airdrie

† **PALAEOPHONOIDEA Thorell & Lindström, 1884** ..... **Silurian**

† **PALAEOPHONIDAE Thorell & Lindström, 1884** ..... **Silurian**

† ***Palaeophonus* Thorell & Lindström, 1884** ..... **Silurian**

73. *Palaeophonus nuncius* Thorell & Lindström, 1884* ..... S Visby, Gotland

74. ?*Palaeophonus lightbodyi* Kjellesvig-Waering, 1954 [claw only !] ..... S Ludford Lane

ORTHOSTERNINA Pocock, 1911 ..... **Carbon. – Recent**

Orthosternina *incertae sedis*

† ***Corniops* Jeram, 1994*b*** ..... **Carboniferous**

75. *Corniops mapesii* Jeram, 1994*b** ..... C Lone Star Lake

.

SCORPIONIOIDEA Latreille, 1802 ..... **Carbon. – Recent**

† **PALAEOPISTHACANTHIDAE Kjellesvig-Waering, 1986** ..... **Carboniferous**

† ***Cryptoscorpius* Jeram, 1994*b*** ..... **Carboniferous**

76. *Cryptoscorpius americanus* Jeram, 1994*b** ..... C Lone Star Lake

† ***Palaeopisthacanthus* Petrunkevitch, 1913** ..... **Carboniferous**

77. *Palaeopisthacanthus schucherti* Petrunkevitch, 1913* ..... C Mazon Creek

78. *Palaeopisthacanthus vogelandurdeni* Jeram, 1994*b* ..... C Lone Star Lake

family uncertain

† ***Compsoscorpius* Petrunkevitch 1949** ..... **Carboniferous**

= † *Allobuthiscorpius* Kjellesvig-Waering, 1986

= † *Coseleyscorpio* Kjellesvig-Waering, 1986

= † *Leioscorpio* Kjellesvig-Waering, 1986

= † *Lichnoscorpius* Petrunkevitch, 1949

= † *Pseudobuthiscorpius* Kjellesvig-Waering, 1986

= † *Typhlopisthacanthus* Petrunkevitch, 1949

79. *Compsoscorpius buthiformis* (Pocock, 1911)* ..... C Coal Measures

i. = *Typhlopisthacanthus anglicus* Petrunkevitch, 1949 ... C Coseley

ii. = *Lichnoscorpius minutus* Petrunkevitch, 1949 ..... C Coseley

iii. = *Compsoscorpius elegans* Petrunkevitch 1949 ..... C Coseley

iv. = *Compsoscorpius elongatus* Petrunkevitch, 1949 ..... C Coseley

v. = *Buthiscorpius major* Wills, 1960 ..... C Kilburn Coal

vi. = *Leioscorpio pseudobuthiformis* Kjellesvig-Waering, 1986 ..... C Coseley

vii. = *Pseudobuthiscorpius labiosus* Kjellesvig-Waering, 1986 ..... C Coseley

viii. = *Coseleyscorpio lanceolatus* Kjellesvig-Waering, 1986 C Coseley

ix. = *Allobuthus macrostethus* Kjellesvig-Waering, 1986 .... C Coseley

Compsoscorpius sp. *in* Poschmann *et al*. (2016) ..... C Graissessac, France

PSEUDOCHACTIDAE Gromov, 1998 ..... **Recent**

no fossil record

BUTHOIDEA C. L. Koch, 1837 ..... **Triassic – Recent**

† **ARCHAEOBUTHIDAE Lourenço, 2001** ..... **Cretaceous**

† ***Archaeobuthus* Lourenço, 2001** ..... **Cretaceous**

80. *Archaeobuthus estephani* Lourenço, 2001* ..... K Lebanese amber

† **PALAEOBURMESEBUTHIDAE Lourenço, 2015*a*** ..... **Cretaceous**

† ***Betaburmesebuthus* Lourenço & Beigel, 2015*a*** ..... **Cretaceous**

81. *Betaburmesebuthus bellus* Lourenço, 2016*a* ..... K Burmese amber

82. *Betaburmesebuthus bidentatus* Lourenço, 2015*c* ..... K Burmese amber

83. *Betaburmesebuthus fleissneri* Lourenço *in* Lourenço & Velten, 2016 ..... K Burmese amber

84. *Betaburmesebuthus joergi* Lourenço & Rossi, 2017 ..... K Burmese amber

85. *Betaburmesebuthus kobberti* Lourenço & Beigel, 2015*a** ..... K Burmese amber

86. *Betaburmesebuthus muelleri* Lourenço, 2015*c* ..... K Burmese amber

† ***Palaeoburmesebuthus* Lourenço, 2002** ..... **Cretaceous**

87. *Palaeoburmesebuthus grimaldii* Lourenço, 2002* ..... K Burmese amber

88. *Palaeoburmesebuthus knodeli* Lourenço, 2018 ..... K Burmese amber

89. *Palaeoburmesebuthus longimanus* Lourenço & Rossi, 2017 ..... K Burmese amber

90. *Palaeoburmesebuthus ohlhoffi* Lourenço, 2015*b* ..... K Burmese amber

† ***Spinoburmesebuthus* Lourenço, 2002** ..... **Cretaceous**

91. *Spinoburmesebuthus pohli* Lourenço *in* Lourenço & Velten, 2017* ..... K Burmese amber

† **CHAERILOBUTHIDAE Lourenço & Beigel, 2011** ..... **Cretaceous**

† ***Chaerilobuthus* Lourenço & Beigel, 2011** ..... **Cretaceous**

92. *Chaerilobuthus birmanicus* Lourenço, 2015*b* ..... K Burmese amber

93. *Chaerilobuthus bruckschi* Lourenço, 2015*b* ..... K Burmese amber

94. *Chaerilobuthus complexus* Lourenço & Beigel, 2011* ..... K Burmese amber

95. *Chaerilobuthus enigmaticus* Lourenço, 2015*d* ..... K Burmese amber

96. *Chaerilobuthus gigantosternum* Lourenço, 2016*b* ..... K Burmese amber

97. *Chaerilobuthus longiaculeus* Lourenço, 2013*b* ..... K Burmese amber

98. *Chaerilobuthus schwarzi* Lourenço *in* Lourenço & Velten, 2015 ..... K Burmese amber

99. *Chaerilobuthus serratus* Lourenço, 2016*b* ..... K Burmese amber

† **PALAEOTRILINEATIDAE Lourenço, 2012*b*** ..... **Cretaceous**

† ***Palaeotrilineatus* Lourenço, 2012*b*** ..... **Cretaceous**

100. *Palaeotrilineatus ellenbergeri* Lourenço, 2012*b** ..... K Burmese amber

† **SUCINLOURENCOIDAE Rossi, 2015** ..... **Cretaceous**

† ***Sucinlourencous* Rossi, 2015** ..... **Cretaceous**

101. *Sucinlourencous adrianae* Rossi, 2015* ..... K Burmese amber

† **PROTOBUTHIDAE Lourenço & Gall, 2004** ..... **Triassic**

† ***Protobuthus* Lourenço & Gall, 2004** ..... **Triassic**

102. *Protobuthus elegans* Lourenço & Gall, 2004* ..... Tr Vosges

BUTHIDAE C. L. Koch, 1837 ..... **Palaeogene – Recent**

= ANDROCTONIDAE C. L. Koch, 1837

= MICROCHARMIDAE Lourenço, 1996*a*

Centruroides* Marx, 1890*a ..... **Neogene – Recent**

103. *Centruroides nitidus* (Thorell, 1876*a*) **[Recent]** ..... Ne Dominican amber

i. = *Centruroides beynai* Schawaller, 1979*a* ..... Ne Dominican amber

***Microcharmus* Lourenço, 1995** ..... **Quaternary – Recent**

104. *Microcharmus henderickxi* (Lourenço, 2009*a*) ..... Qt Madagascar copal

Microtityus* Kjellesvig-Waering, 1966*c ..... **Neogene – Recent**

105. *Microtityus ambarensis* (Schawaller, 1982*a*) ..... Ne Dominican amber

† ***Palaeoakentrobuthus* Lourenço & Weitschat, 2000** ..... **Palaeogene**

106. *Palaeoakentrobuthus knodeli* Lourenço & Weitschat, 2000* ..... Pa Baltic amber

† ***Palaeoananteris* Lourenço & Weitschat, 2001** ..... **Palaeogene**

107. *Palaeoananteris ribnitiodamgartensis* Lourenço & Weitschat, 2001* ... Pa Baltic amber

108. *Palaeoananteris ukrainensis* Lourenço & Weitschat, 2009 ..... Pa Rovno amber

109. *Palaeoananteris wunderlichi* Lourenço, 2004 ..... Pa Baltic amber

† ***Palaeoisometrus* Lourenço & Weitschat, 2005*a*** ..... **Palaeogene**

110. *Palaeoisometrus elegans* Lourenço & Weitschat, 2005*a** ..... Pa Baltic amber

† ***Palaeogrosphus* Lourenço, 2000*a*** ..... **Quaternary**

111. *Palaeogrosphus copalensis* (Lourenço, 1996*b*) ..... Qt Copal

112. *Palaeogrosphus jacquesi* Lourenco & Henderickx, 2002 ..... Qt Copal

† ***Palaeolychas* Lourenço & Weitschat, 1996** ..... **Palaeogene**

113. *Palaeolychas balticus* Lourenço & Weitschat, 1996* ..... Pa Baltic amber

114. *Palaeolychas weitschati* Lourenço, 2012*a* ..... Pa Baltic amber

† ***Palaeoprotobuthus* Lourenço & Weitschat, 2000** ..... **Palaeogene**

115. *Palaeoprotobuthus pusillus* Lourenço & Weitschat, 2000* ..... Pa Baltic amber

† ***Palaeospinobuthus* Lourenço, Henderickx & Weitschat, 2005** ..... **Palaeogene**

116. *Palaeospinobuthus cenozoicus* Lourenço, Henderickx & Weitschat, 2005* ..... Pa Baltic amber

† ***Palaeotityobuthus* Lourenço & Weitschat, 2000** ..... **Palaeogene**

117. *Palaeotityobuthus longiaculeus* Lourenço & Weitschat, 2000* ..... Pa Baltic amber

***Tityus* C. L. Koch, 1836** ..... **?Palaeogene – Recent**

118. *Tityus apozonalli* Riquelme *et al*., 2015 ..... Ne Chiapas amber

119. *Tityus azari* Lourenço, 2013*a* ..... Ne Dominican amber

120. '*Tityus*' *eogenus* Menge, 1869 [presumably misplaced] ..... Pa Baltic amber

121. *Tityus geratus* Santiago-Blay & Poinar, 1988 ..... Ne Dominican amber

122. *Tityus (Brazilotityus) hartkorni* Lourenço, 2009*b* ..... Ne Dominican amber

123. *Tityus (Brazilotityus) knodeli* Lourenço, 2014 ..... Ne Chiapas amber

† ***Uintascorpio*** **Perry, 1995** ..... **Palaeogene**

124. *Uintascorpio halandrasorum* Perry, 1995* ..... Pa Green River

BUTHIDAE *incertae sedis*

125. '*Scorpio*' *schweiggeri* Holl, 1829 ..... Qt Copal [not amber!]

BOTHRIURIDAE Simon, 1880 ..... **Recent**

= TELEGONIDAE Peters, 1861 [based on a generic homonym]

= ACANTHOCHIROIDAE Karsch, 1880*b*

no fossil record

CHACTOIDEA Pocock, 1893 ..... **Cretaceous – Recent**

† **PALAEOEUSCORPIIDAE Lourenço, 2003** ..... **Cretaceous**

† ***Archaeoscorpiops*** **Lourenço, 2015*a*** ..... **Cretaceous**

126. *Archaeoscorpiops cretacicus* Lourenço, 2015*a** ..... K Burmese amber

† ***Burmesescorpiops*** **Lourenço, 2016** ..... **Cretaceous**

127. *Burmesescorpiops groehni* Lourenço, 2016*b** ..... K Burmese amber

† ***Palaeoeuscorpius*** **Lourenço, 2003** ..... **Cretaceous**

128. *Palaeoeuscorpius gallicus* Lourenço, 2003* ..... K French amber

CHACTIDAE Pocock, 1893 ..... **Cretaceous – Recent**

= BROTEIDAE Simon, 1879*a* [supressed for lack of useage]

† ***Araripescorpius*** **Campos, 1986** ..... **Cretaceous**

129. *Araripescorpius ligabuei* Campos, 1986* ..... K Crato Formation

Chactas **Gervais, 1844** ..... **Subrecent – Recent**

130. *Chactas pleistocenicus* Lourenço & Weitschat, 2005*b* ..... Qt Colombian copal

AKRAVIDAE Levy, 2007 ..... **Recent**

no fossil record

CHAERILIDAE Pocock, 1893 ..... **Cretaceous – Recent**

† ***Electrochaerilus*** **Santiago-Blay *et al*., 2004** ..... **Cretaceous**

131. *Electrochaerilus buckleyi* Santiago-Blay *et al*., 2004 ..... K Burmese amber

DIPLOCENTRIDAE Karsch, 1880*b* ..... **Recent**

no fossil record

EUSCORPIIDAE Laurie, 1896 ..... **?Paleogene – Recent**

tentative familial assignment

† ***Eoeuscorpius*** **Kühl & Lourenco, 2017** ..... **?Paleogene – Recent**

132. *Eoeuscorpius ceratoi* Kühl & Lourenco, 2017* ..... Pa Pesciara, Italy

HETEROSCORPIONIDAE Kraepelin, 1905 ..... **Recent**

no fossil record

HEMISCORPIIDAE Pocock, 1893 ..... **Cretaceous – Recent**

= ISCHNURIDAE Simon, 1879*a*

= LIOCHELIDAE Fet & Bechly, 2001

= † PROTOISCHNURIDAE Carvalho & Lourenço, 2001

† ***Protoischnurus*** **Carvalho & Lourenço, 2001** ..... **Cretaceous**

133. *Protoischnurus axelrodorum* Carvalho & Lourenço, 2001* ..... K Crato Formation

IURIDAE Thorell, 1876*b* ..... **Recent**

no fossil record

SCORPIONIDAE Latreille, 1802 ..... **Neogene – Recent**

= PANDINOIDAE Thorell, 1876*b*

= HETEROMETRIDAE Simon, 1879*a*

† ***Mioscorpio*** **Kjellesvig-Waering, 1986** ..... **Neogene**

134. *Mioscorpio zeuneri* (Hadži, 1931)* ..... Ne Swabian Alps

† ***Sinoscorpius*** **Hong, 1983a** ..... **Neogene**

135. *Sinoscorpius shandongensis* Hong, 1983*a** ..... Ne Shandong, China

SUPERSTITIONIIDAE Stahnke, 1940 ..... **Recent**

no fossil record

TROGLOTAYOSICIDAE Lourenço, 1998 ..... **Recent**

no fossil record

VAEJOVIDAE Thorell, 1876*b* ..... **Recent**

no fossil record

SCORPIONES *incertae sedis*

Scorpiones *incertae sedis in* Dunlop & Selden (2013) ..... S Trecastle, Wales

† ***Brontoscorpio*** **Kjellesvig-Waering, 1972** ..... **Devonian**

136. *Brontoscorpio anglicus* Kjellesvig-Waering, 1972* ..... D England

† ***Eramoscorpius*** **Waddington, Rudkin & Dunlop, 2015** ..... **Silurian**

137. *Eramoscorpius brucensis* Waddington, Rudkin & Dunlop, 2015* ..... S Ontario, Canada

† ***Gondwanascorpio*** **Gess, 2013** ..... **Devonian**

138. *Gondwanascorpio emzantsiensis* Gess, 2013* ..... D Grahamstown

† ***Gymnoscorpius*** **Jeram, 1994*b*** ..... **Carboniferous**

139. *Gymnoscorpius mutillidigitatus* Jeram, 1994*b** ..... C northern England

† ***Hubeiscorpio*** **Walossek, Li & Brauckmann, 1990** ..... **Devonian**

140. *Hubeiscorpio gracilitarsis* Walossek, Li & Brauckmann, 1990* ..... D Hubei, China

† ***Liassoscorpionides*** **Bode, 1951** ..... **Jurassic**

141. *Liassoscorpionides schmidti* Bode, 1951* ..... J Hondelage, Germany

† ***Palaeomachus* Pocock, 1911** ..... **Carboniferous**

142. *Palaeomachus anglicus* (Woodward, 1876)* ..... C Mansfield

† ***Permomatveevia* Dammann, 2017** ..... **Permian**

143. *Permomatveevia perneri* Dammann, 2017* ..... P Matvéevo, Urals

† ***Titanoscorpio* Kjellesvig-Waering, 1986** ..... **Carboniferous**

144. *Titanoscorpio douglassi* Kjellesvig-Waering, 1986 ..... C Mazon Creek

† ***Wattisonia* Wills, 1960** ..... **Carboniferous**

145. *Wattisonia coseleyensis* Wills, 1960 ..... C Coseley

MISIDENTIFICATIONS

1. ?*Waterstonia brachistodactyla* Kjellesvig-Waering, 1986 [plant fragment?] ..... C Beith, Ayrshire
2. ?*Mesophonus maculatus* (Brauer, Redtenbacher & Ganglbauer, 1889) ..... [?insect: cockroach] ..... J Siberia
3. *Tiphoscorpio hueberi* Kjellesvig-Waering, 1986 [myriapod: *Eoarthropleura*] ..... D New York

2,408 Recent species

OPILIONES

44 currently valid species of fossil harvestman

OPILIONES Sundevall, 1833 ..... **Devonian – Recent**

CYPHOPHTHALMI Simon, 1879*a* (suborder) ..... **Cretaceous – Recent**

NEOGOVEIDAE Shear, 1980 ..... **Recent**

no fossil record

OGOVEIDAE Shear, 1980 ..... **Recent**

no fossil record

PETTALIDAE Shear, 1980 ..... **Recent**

no fossil record

SIRONIDAE Simon, 1879*a* ..... **Palaeogene – Recent**

***Siro* Latreille, 1796** ..... **Palaeogene – Recent**

1. *Siro balticus* Dunlop & Mitov, 2011 ..... Pa Baltic amber
2. *Siro platypedibus* Dunlop & Giribet, 2003 ..... Pa Bitterfeld amber

STYLOCELLIDAE Hansen & Sørensen, 1904 ..... **Cretaceous – Recent**

† ***Palaeosiro* Poinar, 2008** ..... **Cretaceous – Recent**

3. *Palaeosiro burmanicum* Poinar, 2008 ..... K Burmese amber

   originally desribed as a sironid, but interpreted as a stylocellid by Giribet *et al*. (2012)

TROGLOSIRONIDAE Shear, 1993 ..... **Recent**

no fossil record

TETROPHTHALMI Garwood, Sharma, Dunlop & Giribet, 2014 (suborder) ..... **Devonian – Carbon.**

† ***Eophalangium* Dunlop, Anderson, Kerp & Hass, 2004** ..... **Devonian**

4. *Eophalangium sheari* Dunlop, Anderson, Kerp & Hass, 2004* ..... D Rhynie chert

† ***Hastocularis* Garwood, Sharma, Dunlop & Giribet, 2014** ..... **Carboniferous**

5. *Hastocularis argus* Garwood, Sharma, Dunlop & Giribet, 2014* ..... C Montceau-les-Mines

PHALANGIDA Bristowe, 1949

Suborder uncertain

ARCHAEOMETIDAE Pocock ..... **Carboniferous**

† ***Archaeometa*** **Pocock, 1911** ..... **Carboniferous**

6. *Archaeometa nephilina* Pocock, 1911* ..... C Coseley

originally misidentified as spiders, transferred to Opiliones by Selden *et al*. (2016)

EUPNOI Hansen & Sørensen, 1904 (suborder) ..... **Devonian – Recent**

plesion taxa

† ***Brigantibunum*** **Dunlop & Anderson, 2005** ..... **Carboniferous**

7. *Brigantibunum listoni* Dunlop & Anderson, 2005* ..... C East Kirkton

† ***Kustarachne*** **Scudder, 1890*b*** ..... **Carboniferous**

8. *Kustarachne tenuipes* Scudder, 1890*b** ..... C Mazon Creek

i. = *Kustarachne exstincta* Melander, 1903 ..... C Mazon Creek

ii. = *Kustarachne conica* Petrunkevitch, 1913 ..... C Mazon Creek

† ***Macrogyion*** **Garwood *et al*., 2011** ..... **Carboniferous**

9. *Macrogyion cronus* Garwood *et al*. 2011* ..... C Montceau-les-Mines

CADDOIDEA Banks, 1893 ..... **Palaeogene – Recent**

CADDIDAE Banks, 1893 ..... **Palaeogene – Recent**

Caddo **Banks, 1892*a*** ..... **Palaeogene – Recent**

10. *Caddo dentipalpus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic / Bitter. amber

PHALANGIOIDEA Latreille, 1802 ..... **Palaeogene – Recent**

FAMILY UNCERTAIN

† ***Petrunkevitchiana*** **Mello-Leitão, 1937** [genus *incertae sedis*] ..... **Palaeogene**

11. *Petrunkevitchiana oculata* (Petrunkevitch, 1922)* ..... Pa Florissant

MONOSCUTIDAE Forster, 1948 ..... **Recent**

no fossil record

NEOPILIONIDAE Lawrence, 1931 ..... **Recent**

no fossil record

PHALANGIIDAE Latreille, 1802 ..... **Palaeogene – Recent**

Amilenus **Martens, 1969** ..... **Palaeogene – Recent**

12. *Amilenus deltshevi* Dunlop & Mitov, 2009 ..... Pa Baltic / Bitter. amber

Dicranopalpus **Doleschall, 1852** ..... **Palaeogene – Recent**

13. *Dicranopalpus ramiger* (C. L. Koch & Berendt, 1854) ..... Pa Baltic / Bitter. amber

i. = *Opilio corniger* Menge, 1854 ..... Pa Baltic amber

ii. = *Dicranopalpus palmnickensis* Roewer, 1939 ..... Pa Baltic amber

† ***Lacinius*** **Thorell, 1876** ..... **Palaeogene – Recent**

14. *Lacinius bizleyi* Mitov, Dunlop & Penney, 2015 ..... Pa Baltic / Bitter. Amber

originally assigned to the extant species *Lacinius erinaceus* Staręga, 1966

† ***Stephanobunus*** **Dunlop & Mammitzsch, 2010** ..... **Palaeogene**

15. *Stephanobunus mitovi* Dunlop & Mammitzsch, 2010* ..... Pa Baltic amber

?Phalangiidae

16. *Opilio ovalis* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
    probably misplaced at genus level

PROTOLOPHIDAE Banks, 1893 ..... **Palaeogene – Recent**

***Protolophus* Banks, 1893** ..... **Palaeogene – Recent**

17. *Protolophus hoffeinsi* Elsaka, Mitov & Dunlop, 2019 ..... Pa Baltic amber

SCLEROSOMATIDAE Simon, 1879*a* ..... **Jurassic – Recent**

† ***Amauropilio* Mello-Leitão, 1937** ..... **Palaeogene**

18. *Amauropilio atavus* (Cockerell, 1907) ..... Pa Florissant
19. *Amauropilio lacoei* (Petrunkevitch, 1922) ..... Pa Florissant

***Eumesosoma* Cokendolpher, 1980** ..... **Palaeogene – Recent**

20. *Eumesosoma abdelmawlai* Elsaka, Mitov & Dunlop, 2019 ..... Pa Baltic amber

Eumesosoma sp. *in* Elsaka, Mitov & Dunlop (2019) ..... Pa Baltic amber

Leiobunum* C. L. Koch, 1839*a ..... **Jurassic – Recent**

21. *Leiobunum longipes* Menge *in* Koch & Berendt, 1854 ..... Pa Baltic / Bitter. amber
    i. = *Leiobunum saparum* Menge *in* Koch & Berendt, 1854 [?*lapsus*] ..... Pa Baltic amber
    ii. = *Leiobunum inclusum* Roewer, 1939 ..... Pa Baltic amber

† ***Mesobunus* Huang, Selden & Dunlop, 2009** ..... **Jurassic**

22. *Mesobunus dunlopi* Giribet, Tourhino, Shih & Ren, 2012 ..... J Daohugou
23. *Mesobunus martensi* Huang, Selden & Dunlop, 2009* ..... J Daohugou

FAMILY UNCERTAIN

† ***Daohugopilio* Huang, Selden & Dunlop, 2009** ..... **Jurassic**

24. *Daohugopilio sheari* Huang, Selden & Dunlop, 2009* ..... J Daohugou

DYSPNOI Hansen & Sørensen, 1904 (suborder) ..... Carbon. – Recent

FAMILY UNCERTAIN

† ***Ameticos* Garwood *et al*., 2011** ..... **Carboniferous**

25. *Ameticos scolos* Garwood *et al*. 2011* ..... C Montceau-les-Mines

† ***Echinopustulatus* Dunlop, 2004** ..... **Carboniferous**

26. *Echinopustulatus samuelnelsoni* Dunlop, 2004* ..... C Missouri

ACROPSOPILIONOIDEA Roewer, 1924 ..... **Recent**

ACROPSOPILIONIDAE Roewer, 1924 ..... **Recent**

no fossil record

superfamily uncertain

† **HALITHERSIDAE Dunlop, Selden & Giribet, 2016** ..... **Cretaceous**

† ***Halitherses* Giribet & Dunlop, 2005** ..... **Cretaceous**

27. *Halitherses grimaldii* Giribet & Dunlop, 2005* ..... K Burmese amber

ISCHYROPSALIDOIDEA Simon, 1879*a* ..... **Palaeogene – Recent**

Tentative assignment, family uncertain

† ***Piankhi* Dunlop, Bartel & Mitov, 2012** ..... **Palaeogene**

28. *Piankhi steineri* Dunlop, Bartel & Mitov, 2012* ..... Pa Baltic amber

CERATOLASMATIDAE Shear, 1986 ..... **Recent**

no fossil record

ISCHYROPSALIDIDAE Simon, 1879*a* ..... **Recent**

no fossil record

SABACONIDAE Dresco, 1970 ..... **Palaeogene – Recent**

Sabacon* Simon, 1879*a ..... **Palaeogene – Recent**

29. *Sabacon claviger* (Menge *in* Koch & Berendt 1854) ..... Pa Baltic amber

i. = *Sabacon bachofeni* Roewer, 1939 ..... Pa Baltic amber

TROGULOIDEA Sundevall, 1833 ..... **Cretaceous – Recent**

DICRANOLASMATIDAE Simon, 1879*a* ..... **Recent**

no fossil record

† **EOTROGULIDAE Petrunkevitch, 1955*a*** ..... **Carboniferous**

† ***Eotrogulus* Thevenin, 1901** ..... **Carboniferous**

30. *Eotrogulus fayoli* Thevenin, 1901* ..... C Commentry

NEMASTOMATIDAE Simon, 1879*a* ..... **Palaeogene – Recent**

***Histricostoma* Kratochvíl, 1958** ..... **Palaeogene – Recent**

31. ?*Histricostoma tuberculatum* (C. L. Koch & Berendt, 1854) ..... Pa Baltic/Bitter. amber

***Mitostoma* Roewer, 1951** ..... **Palaeogene – Recent**

32. ?*Mitostoma denticulatum* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

i. = *Nemastoma succineum* Roewer, 1939 ..... Pa Baltic amber

33. ?*Mitostoma gruberi* Dunlop & Mitov, 2009 ..... Pa Baltic/Bitter. amber

***Nemastoma* C. L. Koch, 1836** ..... **Palaeogene – Recent**

34. ?*Nemastoma incertum* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Paragiljarovia* Elsaka, Mitov & Dunlop, 2019** ..... **Palaeogene**

35. *Paragiljarovia hochae* Elsaka, Mitov & Dunlop, 2019* ..... Pa Baltic amber

† **NEMASTOMOIDIDAE Petrunkevitch, 1955*a*** ..... **Carboniferous**

† ***Nemastomoides* Thevenin, 1901** ..... **Carboniferous**

= † *Protopilio* Petrunkevitch, 1913

36. *Nemastomoides elaveris* Thevenin, 1901* ..... C Commentry
37. *Nemastomoides longipes* (Petrunkevitch, 1913) ..... C Mazon Creek

NIPPONOSALIDIDAE Martens, 1976 ..... **Recent**

no fossil record

TROGULIDAE Sundevall, 1833 ..... **Palaeogene – Recent**

***Trogulus* Latreille, 1802** ..... **Palaeogene – Recent**

38. *Trogulus longipes* Haupt, 1956 ..... Pa Geiseltal

LANIATORES Thorell, 1876*c* (suborder) ..... **Cretaceous – Recent**

FAMILY UNCERTAIN

***Philacarus* Sørensen, 1932** ..... **Neogene – Recent**

39. *Philacarus hispaniolensis* Cokendolpher & Poinar, 1992 ..... Ne Dominican amber

INSIDIATORES Loman, 1900 (infraorder) ..... **Palaeogene – Recent**

TRAVUNIOIDEA Absolon & Kratochvíl, 1932 ..... **Palaeogene – Recent**

CLADONYCHIDAE Hadži, 1935 ..... **Palaeogene – Recent**

† ***Proholoscotolemon* Ubick & Dunlop, 2005** ..... **Palaeogene**

40. *Proholoscotolemon nemastomoides* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber

?*Proholoscotolemon* sp. *in* Ubick & Dunlop (2005) ..... Pa Baltic amber

cf. *Proholoscotolemon* sp. *in* Bartel & Dunlop (2019) ..... Pa Baltic amber

PENTANYCHIDAE Briggs, 1971 ..... **Recent**

no fossil record

TRAVUNIIDAE Absolon & Kratochvíl, 1932 ..... **Recent**

no fossil record

TRIAENONYCHOIDEA Sørensen, 1886 ..... **Recent**

SYNTHETONYCHIIDAE Forster, 1954 ..... **Recent**

no fossil record

TRIAENONYCHIDAE Sørensen, 1886 ..... **Recent**

no fossil record

GRASSATORES Kury, 2002 (infraorder) ..... **Cretaceous – Recent**

SAMOIDEA Sørensen, 1886 ..... **Neogene – Recent**

BIANTIDAE Thorell, 1889 ..... **Recent**

no fossil record

ESCADABIIDAE Kury & Pérez González *in* Kury, 2003 ..... **Recent**

no fossil record

KIMULIDAE Pérez González, Kury & Alonso-Zarazaga *in* Pérez González & Kury, 2007 ..... **Neogene – Recent**

***Kimula* Goodnight & Goodnight, 1942** ..... **Neogene – Recent**

Kimula sp. *in* Cokendolpher & Poinar (1992) ..... Ne Dominican amber

PODOCTIDAE Roewer, 1912 ..... **Recent**

no fossil record

SAMOIDAE Sørensen, 1886 ..... **Neogene – Recent**

***Hummelinckiolus* Šilhavý, 1979** ..... **Neogene – Recent**

41. *Hummelinckiolus silhavyi* Cokendolpher & Poinar, 1998 ..... Ne Dominican amber

***Pellobunus* Banks, 1905** ..... **Neogene – Recent**

42. *Pellobunus proavus* Cokendolpher, 1987 ..... Ne Dominican amber

STYGNOMMATIDAE Roewer, 1923 ..... **Recent**

no fossil record

ASSAMIOIDEA Sørensen, 1884 ..... **Cretaceous – Recent**

ASSAMIIDAE Sørensen, 1884 ..... **Recent**

no fossil record

EPEDANIDAE Sørensen, 1886 ..... **Cretaceous – Recent**

† ***Petrobunoides* Selden, Dunlop, Giribet, Zhang & Ren, 2016** ..... **Cretaceous**

43. *Petrobunoides sharmai* Selden, Dunlop, Giribet, Zhang & Ren, 2016* .... K Burmese amber

PETROBUNIDAE Sharma & Giribet, 2011 ..... **Recent**

no fossil record

PYRAMIDOPIIDAE Sharma, Prieto & Giribet, 2011 ..... **Recent**

no fossil record

STYGNOPSIDAE Sørensen, 1932 ..... **Recent**

no fossil record

TITHAEIDAE Sharma & Giribet, 2011 ..... **Recent**

no fossil record

GONYLEPTOIDEA Sundevall, 1833 ..... **Recent**

AGORISTENIDAE Šilhavý, 1973 ..... **Recent**

no fossil record

COSMETIDAE C. L. Koch, 1839*a* ..... **Recent**

no fossil record

CRANAIDAE Roewer, 1913 ..... **Recent**

no fossil record

GONYLEPTIDAE Sundevall, 1833 ..... **Recent**

no fossil record

MANAOSBIIDAE Roewer, 1943 ..... **Recent**

no fossil record

STYGNIDAE Simon, 1879*b* ..... **Recent**

no fossil record

PHALANGODOIDEA Simon, 1879*a* ..... **Recent**

ONCOPODIDAE Thorell, 1876*c* ..... **Recent**

no fossil record

PHALANGODIDAE Simon, 1879*a* ..... **Recent**

no fossil record

ZALMOXOIDEA Sørensen, 1886 ..... **Recent**

FISSIPHALLIIDAE Martens, 1988 ..... **Recent**

no fossil record

GUASINIIDAE González-Sponga, 1997 ..... **Recent**

no fossil record

ICALEPTIDAE Kury & Pérez González, 2002 ..... **Recent**

no fossil record

ZALMOXIDAE Sørensen, 1886 ..... **Recent**

no fossil record

OPILIONES *incertae sedis*

unnamed specimen *in* Jell & Duncan (1986) ..... K Koonwarra

† ***Arachnometa* Petrunkevitch, 1949** ..... **Carboniferous**

44. *Arachnometa tuberculata* Petrunkevitch, 1949* ..... C Coseley

originally misidentified as a spider, transferred to Opiliones by Selden *et al*. (2016)

NOMINA DUBIA

1. *Cheiromachus coriaceus* Menge *in* Koch & Berendt, 1854 ..... Pa Baltic amber
2. *Phalangium succineum* Presl, 1822 ..... Pa Baltic amber

MISIDENTIFICATIONS

1. *Hasseltides primigenius* Weyenbergh, 1869 [crinoid] ..... J Solnhofen
2. *Phalangites multipes* Münster *in* Roth, 1851 [crustacean] ..... J Solnhofen
3. *Phalangites priscus* Münster, 1839 [crustacean] ..... J Solnhofen
4. *Rhabdotarachnoides simoni* Haupt, 1957 [plant fragment] ..... P Rotliegend

   probably not a name in zoology

6,491 Recent species according to Kury (2011)

PHALANGIOTARBIDA

31 currently valid species of fossil phalangiotarbid

† **PHALANGIOTARBIDA Haase, 1890** ..... **Devonian – Permian**

= † ARCHITARBIDA Petrunkevitch, 1945*a*

† **DEVONOTARBIDAE Poschmann & Dunlop, 2012** ..... **Devonian**

† ***Devonotarbus* Poschmann, Anderson & Dunlop, 2005** ..... **Devonian**

1. *Devonotarbus hombachensis* Poschmann, Anderson & Dunlop, 2005* D Germany

† **ANTHRACOTARBIDAE Kjellesvig-Waering, 1969** ..... **Carboniferous**

† ***Anthracotarbus* Kjellesvig-Waering, 1969** ..... **Carboniferous**

2. *Anthracotarbus hintoni* Kjellesvig-Waering, 1969* ..... C Oklahoma

† **ARCHITARBIDAE Karsch, 1882** ..... **Carboniferous**

= † PHALANGIOTARBIDAE Haase, 1890

† ***Architarbus* Scudder, 1868** ..... **Carboniferous**

3. *Architarbus hoffmanni* Guthörl, 1934 ..... C Saar basin
   i. = *Opiliotarbus kliveri* Waterlot, 1935..... C Saar basin
   ii. = *Goniotarbus sarana* Guthörl, 1965 ..... C Saar basin
4. *Architarbus minor* Petrunkevitch, 1913 ..... C Mazon Creek
5. *Architarbus rotundatus* Scudder, 1868* ..... C Mazon Creek

† ***Bornatarbus* Rößler & Schneider, 1997** ..... **Carboniferous**

6. *Bornatarbus mayasii* (Haupt *in* Nindel, 1955)* ..... C Germany / UK

† ***Discotarbus* Petrunkevitch, 1913** ..... **Carboniferous**

7. *Discotarbus deplanatus* Petrunkevitch, 1913* ..... C Mazon Creek

† ***Geratarbus* Scudder, 1890*b*** ..... **Carboniferous**

8. *Geratarbus lacoei* Scudder, 1890*b** ..... C Mazon Creek
9. *Geratarbus bohemicus* Petrunkevitch, 1953 ..... C Nýřany

† ***Goniotarbus* Petrunkevitch, 1949** ..... **Carboniferous**

10. *Goniotarbus angulatus* (Pocock, 1911) ..... C Coseley
11. *Goniotarbus tuberculatus* (Pocock, 1911)* ..... C Coseley
    i. = *Goniotarbus tuberculatus* Petrunkevitch, 1949 ..... C Coseley

† ***Hadrachne* Melander, 1903** ..... **Carboniferous**

12. *Hadrachne horribilis* Melander, 1903* ..... C Mazon Creek

† ***Leptotarbus* Petrunkevitch, 1945*a*** ..... **Carboniferous**

13. *Leptotarbus torpedo* (Pocock, 1911)* ..... C Coseley

† ***Mesotarbus* Petrunkevitch, 1949** ..... **Carboniferous**

14. *Mesotarbus angustus* (Pocock, 1911) ..... C Coseley

15. *Mesotarbus eggintoni* (Pocock, 1911) ..... C Coseley
16. *Mesotarbus hindi* (Pocock, 1911) ..... C Coseley
17. *Mesotarbus intermedius* Petrunkevitch, 1949* ..... C Coseley
18. *Mesotarbus peteri* Dunlop & Horrocks, 1997 ..... C Westhoughton

† ***Metatarbus* Petrunkevitch, 1913** ..... **Carboniferous**

19. *Metatarbus triangularis* Petrunkevitch, 1913* ..... C Mazon Creek

† ***Ootarbus* Petrunkevitch, 1945*a*** ..... **Carboniferous**

20. *Ootarbus pulcher* Petrunkevitch, 1945*a** ..... C Mazon Creek
21. *Ootarbus ovatus* Petrunkevitch, 1945*a* ..... C Mazon Creek

† ***Orthotarbus* Petrunkevitch, 1945*a*** ..... **Carboniferous**

22. *Orthotarbus longipes* Simon, 1971 ..... C Halleschen Mulde
23. *Orthotarbus minutus* (Petrunkevitch, 1913)* ..... C Mazon Creek
24. *Orthotarbus robustus* Petrunkevitch, 1945*a* ..... C Mazon Creek
25. *Orthotarbus nyranensis* Petrunkevitch, 1953 ..... C Nýřany

† ***Paratarbus* Petrunkevitch, 1945a** ..... **Carboniferous**

26. *Paratarbus carbonarius* Petrunkevitch, 1945*a** ..... C Mazon Creek

† ***Phalangiotarbus* Haase, 1890** ..... **Carboniferous**

27. *Phalangiotarbus subovalis* (Woodward, 1872*b*)* ..... C Burnley

† ***Pycnotarbus* Darber, 1990** ..... **Carboniferous**

28. *Pycnotarbus verrucosus* Darber, 1990* ..... C Oelsnitz

† ***Triangulotarbus* Patrick, 1989** ..... **Carboniferous**

29. *Triangulotarbus terrehautensis* Patrick, 1989* ..... C Indiana

† **HETEROTARBIDAE Petrunkevitch, 1913** ..... **Carboniferous**

† ***Heterotarbus* Petrunkevitch, 1913** ..... **Carboniferous**

30. *Heterotarbus ovatus* Petrunkevitch, 1913* ..... C Mazon Creek

† **OPILIOTARBIDAE Petrunkevitch, 1945*a*** ..... **Carb. – Permian**

† ***Opiliotarbus* Pocock, 1910** ..... **Carb. – Permian**

31. *Opiliotarbus elongatus* (Scudder, 1890*b*)* ..... C–P USA / Germany

NOMINA DUBIA

1. *Eotarbus litoralis* Kušta, 1888 ..... C Rakovník
2. *Nemastomoides depressus* Petrunkevitch, 1913 ..... C Mazon Creek

no Recent species

PSEUDOSCORPIONES

50 currently valid species of fossil pseudoscorpion

PSEUDOSCORPIONES De Geer, 1778 ..... **Devonian – Recent**

= CHERNETES Simon, 1879*a*

† **PALAEOSPHYRONIDA Harvey *in* Benavides *et al*., 2019** ..... **Devonian**

† **DRACOCHELOIDEA Schawaller, Shear & Bonamo, 1991** ..... **Devonian**

† **DRACOCHELIDAE Schawaller, Shear & Bonamo, 1991** ..... **Devonian**

† ***Dracochela* Schawaller, Shear & Bonamo, 1991** ..... **Devonian**

1. *Dracochela deprehendor* Schawaller, Shear & Bonamo, 1991* ..... D Gilboa

HETEROSYPHRONIDA Chamberlin, 1929 ..... **Cretaceous – Recent**

CHTHONOIDEA Daday, 1889 ..... **Cretaceous – Recent**

CHTHONIIDAE Daday, 1889 ..... **Cretaceous – Recent**

= DITHIDAE Chamberlin, 1929

= LECHYTIDAE Chamberlin, 1929

= TRIDENCHTHONIIDAE Balzan, 1892

Chthoniidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

† ***Chelignathus* Menge, 1854** ..... **Palaeogene**

2. *Chelignathus kochii* Menge *in* Koch & Berendt 1854* ..... Pa Baltic amber

Chthonius* C. L. Koch, 1843*a ..... **Palaeogene – Recent**

3. *Chthonius* (*Chthonius*) *mengei* Beier, 1937 ..... Pa Baltic amber

4. *Chthonius* (*Chthonius*) *pristinus* Schawaller, 1978 ..... Pa Baltic amber

***Lechytia* Balzan, 1892** ..... **Neogene – Recent**

5. *Lechytia tertiaria* Schawaller, 1980*a* ..... Ne Dominican amber

***Paraliochthonius* Beier, 1956** ..... **Neogene – Recent**

6. *Paraliochthonius miomaya* Judson, 2016 ..... Ne Chiapas amber

***Pseudochthonius* Balzan, 1892** ..... **Neogene – Recent**

7. *Pseudochthonius squamosus* Schawaller, 1980*a* ..... Ne Dominican amber

***Tyrannchthonius* Chamberlin, 1929** ..... **Neogene – Recent**

Tyrannchthonius sp. *in* Judson (2010) ..... Qt Madagascan copal

Tyrannchthonius sp. *in* Judson (2016) ..... Ne Chiapas amber

† ***Weygoldtiella* Harvey *et al*., 2018** ..... **Cretaceous**

8. *Weygoldtiella plausus* Harvey *et al*., 2018 ..... K Burmese amber

LECHYTIDAE Chamberlin, 1929 ..... **Neogene – Recent**

PSEUDOTYRANNOCHTHONIIDAE Balzan, 1892 ..... **Palaeogene – Recent**

Pseudotyrannochthoniidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

HOMOSYPHRONIDA Chamberlin, 1929 ..... **Cretaceous – Recent**

ATOPOSYPHRONIDA Harvey *in* Benavides *et al*., 2019 ..... **Cretaceous – Recent**

FEAELLOIDEA Ellingsen, 1906 ..... **Cretcaeous – Recent**

FEAELLIDAE Ellingsen, 1906 ..... **Cretcaeous – Recent**

***Feaella (Tetrafeaella)* Beier, 1955** ..... **Palaeogene – Recent**

9. *Feaella (Tetrafeaella) groehni* Henderickx *in* Henderickx & Boone, 2014 Pa Baltic amber

† ***Protofeaella* Henderickx *in* Henderickx & Boone, 2014** ..... **Cretcaeous – Recent**

10. *Protofeaella peetersae* Henderickx *in* Henderickx & Boone, 2016* ..... K Burmese amber

PSEUDOGARYPIDAE Chamberlin, 1923*a* ..... **Palaeogene – Recent**

Pseudogarypidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

***Pseudogarypus* Ellingsen, 1909** ..... **Palaeogene – Recent**

11. *Pseudogarypus extensus* Beier, 1937 ..... Pa Baltic amber
12. *Pseudogarypus hemprichii* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
13. *Pseudogarypus minor* Beier, 1947*a* ..... Pa Baltic/Rovno amber
14. *Pseudogarypus pangaea* Henderickx *in* Henderickx *et al.*, 2006 ..... Pa Baltic amber
15. *Pseudogarypus synchrotron* Henderickx *in* Henderickx *et al.*, 2012 ..... Pa Baltic amber

IOCHIERATA Harvey, 1992 ..... **Cretaceous – Recent**

HEMICTENATA Balzan, 1892 ..... **Cretaceous – Recent**

NEOBISIOIDEA Chamberlin, 1930 ..... **Cretaceous – Recent**

BOCHICIDAE Chamberlin, 1930 ..... **Recent**

= VACHONIIDAE Chamberlin, 1947

no fossil record

GYMNOBISIIDAE Beier, 1947*b* ..... **Recent**

no fossil record

HYIDAE Chamberlin, 1930 ..... **Recent**

no fossil record

IDEORONCIDAE Chamberlin, 1930 ..... **Recent**

no fossil record

NEOBISIIDAE Chamberlin, 1930 ..... **Cretaceous – Recent**

= OBISIIDAE Sundevall, 1833

Neobisiidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

***Microcreagris* Balzan, 1892** ..... **Palaeogene – Recent**

16. *Microcreagris koellnerorum* Schawaller, 1978 ..... Pa Baltic amber

***Neobisium* Chamberlin, 1930** ..... **Palaeogene – Recent**

17. *Neobisium* (*Neobisium*) *exstinctum* Beier, 1955 ..... Pa Baltic amber
18. *Neobisium henderickxi* Judson, 2003 ..... Pa Baltic amber

***Roncus* L. Koch, 1873** ..... **Palaeogene – Recent**

19. *Roncus succineus* Beier, 1955 ..... Pa Baltic amber

PARAHYIDAE Harvey, 1992 ..... **Recent**

no fossil record

SYARINIDAE Chamberlin, 1930 ..... **Recent**

no fossil record

PANCTENATA Balzan, 1892 ..... **Cretaceous – Recent**

GARYPOIDEA Simon, 1879*a* ..... **Palaeogene – Recent**

GARYPIDAE Simon, 1879*a* ..... **Recent**

= SYNSPHRONIDAE Beier, 1932*a*

no fossil record

GEOGARYPIDAE Chamberlin, 1930 ..... **Palaeogene – Recent**

Geogarypidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

***Geogarypus* Chamberlin, 1930** ..... **Palaeogene – Recent**

20. *Geogarypus gorskii* Henderickx, 2005 ..... Pa Baltic/Rovno amber
21. *Geogarypus macrodactylus* Beier, 1937 ..... Pa Baltic amber
22. *Geogarypus major* Beier, 1937 ..... Pa Baltic amber

HESPEROLPIIDAE Chamberlin, 1930 ..... **Recent**

no fossil record

MENTHIDAE Chamberlin, 1930 ..... **Recent**

no fossil record

OLPIIDAE Banks, 1895 ..... **Palaeogene – Recent**

no fossil record

GARYPINOIDEA Daday, 1889 ..... **Cretaceous – Recent**

GARYPINIDAE Daday, 1889 ..... **Cretaceous – Recent**

Garypinidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

Amblyolpium* Simon, 1898*b ..... **Cretaceous – Recent**

23. *Amblyolpium burmiticum* (Cockerell, 1920) ..... K Burmese amber

***Garypinus* Daday, 1888** ..... **Palaeogene – Recent**

24. *Garypinus electri* Beier, 1937 ..... Pa Baltic amber

LARCIDAE Harvey, 1992 ..... **Recent**

no fossil record

CHEIRIDIOIDEA Hansen, 1894 ..... **Cretaceous – Recent**

CHEIRIDIIDAE Hansen, 1894 ..... **Cretaceous – Recent**

Cheiridiidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

***Cheiridium* Menge, 1855** ..... **Palaeogene – Recent**

25. *Cheiridium hartmanni* (Menge in Koch & Berendt 1854) ..... Pa Baltic amber

Cryptocheiridium* Chamberlin, 1931*a ..... **Neogene – Recent**

26. *Cryptocheiridium* (*Cryptocheiridium*) *antiquum* Schawaller, 1981 ..... Ne Dominican amber

† ***Electrobisium* Cockerell, 1917** ..... **Cretaceous**

27. *Electrobisium acutum* Cockerell, 1917*a** ..... K Burmese amber

PSEUDOCHIRIDIIDAE Chamberlin, 1923*b* ..... **Neogene – Recent**

***Pseudochiridium* With, 1906** ..... **Neogene – Recent**

28. *Pseudochiridium lindae* Judson, 2007 ..... Ne Dominican amber

STERNOPHOROIDEA Chamberlin, 1923*b* ..... **Neogene – Recent**

STERNOPHORIDAE Chamberlin, 1923*b* ..... **Neogene – Recent**

***Idiogaryops* Hoff, 1963** ..... **Neogene – Recent**

29. *Idiogaryops pumilus* (Hoff, 1963) **[Recent]** ..... Ne–R Dominican amber

CHELIFEROIDEA Risso, 1826 ..... **Cretaceous – Recent**

ATEMNIDAE Kishida, 1929 ..... **Palaeogene – Recent**

Atemninae indet. *in* Judson (2010) ..... Qt Dominican amber

Atemnidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

***Paratemnoides* Harvey, 1991** ..... **Neogene – Recent**

30. *Paratemnoides nidificator* (Balzan, 1888) **[Recent]** ..... Qt–R Colombian copal

Paratemnoides (?) sp. *in* Judson (2016) ..... Ne Chiapas amber

† ***Progonatemnus* Beier, 1955** ..... **Palaeogene**

31. *Progonatemnus succineus* Beier, 1955* ..... Pa Baltic amber

CHELIFERIDAE Risso, 1827 ..... **Cretaceous – Recent**

Cheliferidae? indet. *in* Judson (2009) ..... K Archingeay amber

Cheliferidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

Cheliferini gen. sp. indet. *in* Judson (2016) ..... Ne Chiapas amber

† ***Dichela* Menge, 1854** ..... **Palaeogene**

= † *Oligochelifer* Beier, 1937

32. *Dichela berendtii* Menge *in* Koch & Berendt 1854* ..... Pa Baltic amber

33. *Dichela gracilis* (Beier, 1937) ..... Pa Baltic amber

34. *Dichela granulatus* (Beier, 1937) ..... Pa Baltic amber

35. *Dichela serratidentatus* (Beier, 1937) ..... Pa Baltic amber

† ***Electrochelifer* Beier, 1937** ..... **Palaeogene**

36. *Electrochelifer bachofeni* Beier, 1947*a* ..... Pa Baltic amber

37. *Electrochelifer balticus* Beier, 1955 ..... Pa Baltic amber
38. *"Electrochelifer" groehni* Dashdamirmov, 2008 ..... Pa Baltic amber
39. *Electrochelifer mengei* Beier, 1937* ..... Pa Baltic amber
40. *Electrochelifer rapulitarsatus* Beier, 1947*a* ..... Pa Baltic amber

† ***Heurtaultia*** **Judson, 2009** [tentative referal to family] ..... **Cretaceous**

41. *Heurtaultia rossiorum* Judson, 2009 ..... K Archingeay amber

† ***Pycnochelifer*** **Beier, 1937** ..... **Palaeogene**

42. *Pycnochelifer kleemanni* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber
    i. = *Obisium rathkii* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Trachychelifer*** **Hong, 1983b** ..... **Palaeogene**

43. *Trachychelifer liaoningense* Hong, 1983*b** ..... Pa Chinese amber

CHERNETIDAE Menge, 1855 ..... **Cretaceous – Recent**

Chernetidae indet. *in* Schawaller (1991) ..... K Canadian amber
Chthoniidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber
Chernetidae indet. *in* Schawaller (1982*b*) ..... Ne Chiapas amber

Byrsochernes **Beier, 1959** ..... **Neogene – Recent**

= † *Mayachernes* Riquelme, Piedra-Jiménez & Córdova-Tabares, 2014 *in* Riquelme *et al*. (2014)

44. *Byrsochernes maatiatus* (Riquelme, Piedra-Jiménez & Córdova-Tabares, 2014 *in* Riquelme *et al*. (2014)) ..... Ne Chiapas amber

Lustrochernes **Beier, 1932** ..... **Neogene – Recent**

Lustrochernes (?) sp. 1–2 *in* Judson (2016) ..... Ne Chiapas amber

† ***Oligochernes*** **Beier, 1937** ..... **Palaeogene**

45. *Oligochernes bachofeni* Beier, 1937 ..... Pa Baltic amber
46. *Oligochernes wigandi* (Menge *in* Koch & Berendt 1854) ..... Pa Baltic amber

Pachychernes **Beier, 1932*b*** ..... **Neogene – Recent**

47. *Pachychernes effossus* Schawaller, 1980*b* ..... Ne Dominican amber
48. *Pachychernes* aff. *subrobustus* (Balzan, 1892) ..... Qt–R Colombian copal

WITHIIDAE Chamberlin, 1931*b* ..... **Palaeogene – Recent**

Withiidae indet. *in* Ahrens *et al*. (2019) ..... Pa Bitterfeld amber

† ***Beierowithius*** **Mahnert, 1979** ..... **Palaeogene**

49. *Beierowithius sieboldtii* (Menge *in* Koch & Berendt 1854)* ..... Pa Baltic amber

Withius **Kew, 1911** ..... **Quaternary – Recent**

50. *Withius eucarpus* (Dalman, 1826) ..... Qt East African opal

NOMUM DUBIUM

1. *Chelifer ehrenbergii* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

NOMUM NUDUM

1. *Chelifer fossilis* Weyenbergh, 1874 ..... J Solnhofen

ca. 3,700 Recent species according to Benavides et al. (2019)

SOLIFUGAE

6 currently valid species of camel spider

- *Schneidarachne* appears to show some solifuge-like features and was tentatively assigned to the stem-lineage of this order; for convienience it is listed here alongside the camel spiders
- a family name Protosolpugidae has been proposed for *Protosolpuga*, but was not recognised in most of the subsequent literature – cf. Selden & Shear's (1996) revision

stem-lineage?

† ***Schneidarachne*** **Dunlop & Rössler, 2003** ..... **Carboniferous**

1. *Schneidarachne saganii* Dunlop & Rössler, 2003* ..... C Kamienna Góra

SOLIFUGAE Sundevall, 1833 ..... Carbon. – Recent

SOLIFUGAE *INCERTAE SEDIS*

† ***Protosolpuga*** **Petrunkevitch, 1913** ..... **Carboniferous**

2. *Protosolpuga carbonaria* Petrunkevitch, 1913* ..... C Mazon Creek

† ***Cushingia*** **Dunlop, Bird, Brookhart & Bechly 2015** ..... **Cretaceous**

3. *Cushingia ellenbergeri* Dunlop, Bird, Brookhart & Bechly 2015* ..... K Burmese Amber

AMMOTRECHIDAE Roewer, 1934 ..... **Neogene – Recent**

† ***Happlodontus*** **Poinar & Santiago-Blay, 1989** ..... **Neogene**

4. *Happlodontus proterus* Poinar & Santiago-Blay, 1989* ..... Ne Dominican amber

CEROMIDAE Roewer, 1933 ..... **Cretaceous – Recent**

† ***Cratosolpuga*** **Selden *in* Selden & Shear, 1996** ..... **Cretaceous**

5. *Cratosolpuga wunderlichi* Selden *in* Selden & Shear, 1996* ..... K Crato Formation

DAESIIDAE Kraepelin, 1899 ..... **Palaeogene – Recent**

† ***Palaeoblossia*** **Dunlop, Wunderlich & Poinar, 2004** ..... **Palaeogene**

6. *Palaeoblossia groehni* Dunlop, Wunderlich & Poinar, 2004* ..... Pa Baltic amber

EREMOBATIDAE Kraepelin, 1901 ..... **Recent**

no fossil record

GALEODIDAE Sundevall, 1833 ..... **Recent**

no fossil record

GYLIPPIDAE Roewer, 1933 ..... **Recent**

no fossil record

HEXISOPODIDAE Pocock, 1897 ..... **Recent**

no fossil record

KARSCHIIDAE Kraepelin, 1899 ..... **Recent**

no fossil record

MELANOBLOSSIDAE Roewer, 1933 ..... **Recent**

no fossil record

MUMMUCIIDAE Roewer, 1934 ..... **Recent**

no fossil record

RHAGODIDAE Pocock, 1897 ..... **Recent**

no fossil record

SOLPUGIDAE Leach, 1815 ..... **Recent**

no fossil record

1,113 Recent species according to Prendini (2011)

PALPIGRADI

2 currently valid species of fossil palpigrade

PALPIGRADI Thorell, 1888 …… **Cretaceous – Recent**

= MICROTHELYPHONIDA Grassi & Calandruccio, 1885

family uncertain

† ***Paleokoenenia*** **Rowland & Sissom, 1980** …… **Neogene**

1. *Paleokoenenia mordax* Rowland & Sissom, 1980* ……Ne Onyx Marble

EUKOENENIIDAE Petrunkevitch, 1955*a* …… **Cretaceous – Recent**

† ***Electrokoenenia*** **Engel & Huang *in* Engel *et al*., 2016** …… **Cretaceous**

2. *Electrokoenenia yaksha* Engel & Huang *in* Engel *et al*., 2016* …… K Burmese amber

PROKOENENIIDAE Condé, 1996 …… **Recent**

no fossil record

MISIDENTIFICATIONS

1. *Sternarthron zitteli* Haase, 1890 [insect] …… J Solnhofen
2. *Sternarthron zitteli* var. *minor* (Oppenheim, 1887) [insect] …… J Solnhofen

82 Recent species according to Prendini (2011)

ACARI: PARASITIFORMES

18 currently valid species of fossil parasitiform mite

- higher systematics and sequence of taxa follows the third edition of *A Manual of Acarology* (Krantz & Walter, eds, 2009), except that their orders are listed here as suborders, and suborders as infraorders to achieve some degree of consistency with other arachnid higher taxa throughout this list

PARASITIFORMES Reuter, 1909 ..... **Cretaceous – Recent**

= ANACTINOTRICHIDA author, date?

OPILIOACARIDA Zachvatkin, 1952 (suborder) ..... **Cretaceous – Recent**

= NOTOSTIGMATA author, date?

OPILIOACAROIDEA Vitzthum, 1931 ..... **Cretaceous – Recent**

OPILIOACARIDAE Vitzthum, 1931 ..... **Cretaceous – Recent**

= NEOACARIDAE Chamberlin & Mulaik, 1942

***Opilioacarus* With, 1902** ..... **?Cretaceous – Recent**

1. *?Opilioacarus aenigmus* Dunlop, Sempf & Wunderlich, 2010 ..... Pa Baltic amber
2. ?*Opilioacarus groehni* Dunlop & Bernardi, 2014 ..... K Burmese amber

***Paracarus* Chamberlin & Mulaik, 1942** ..... **Palaeogene – Recent**

3. *Paracarus pristinus* Dunlop, Wunderlich & Poinar, 2004 ..... Pa Baltic amber

HOLOTHYRIDA Thorell, 1882 (suborder) ..... **Recent**

= TETRASTIGMATA author, date?

HOLOTYHROIDEA Thorell, 1882 ..... **Recent**

ALLOTHYRIDAE van der Hammen, 1972 ..... **Recent**

no fossil record

HOLOTHYRIDAE Thorell, 1882 ..... **Recent**

no fossil record

NEOTHYRIDAE Lehtinen, 1981 ..... **Recent**

no fossil record

IXODIDA Leach, 1815 (suborder) ..... **Cretaceous – Recent**

= METASTIGMATA author, date?

NUTALLIELLIDAE Schulze, 1935 ..... **Recent**

no fossil record

† **DEINOCROTONIDAE Peñalver, Arillo, Anderson & Pérez-de la Fuente *in* Peñalver**

***et al*., 2017** ..... **Cretaceous**

† ***Deinocroton*** **Peñalver, Arillo, Anderson & Pérez-de la Fuente *in* Peñalver *et al*., 2017** ..... **Cretaceous**

4. *Deinocroton draculi* Peñalver, Arillo, Anderson & Perez-de la Fuente *in* Peñalver *et al*., 2017* ..... K Burmese amber

ARGASIDAE Murray, 1877 ..... **Cretaceous – Recent**

Carios **Latreille, 1796** ..... **Cretaceous – Recent**

5. *Carios jerseyi* Klompen & Grimaldi, 2001 ..... K New Jersey amber

Ornithodoros **C. L. Koch, 1844** ..... **Neogene – Recent**

6. *Ornithodoros antiquus* Poinar, 1995 ..... Ne Dominican amber

IXODIDAE Banks, 1907 ..... **Cretaceous – Recent**

a putative *Hyalomma* in Baltic amber in de la Fuente (2003) is probably a caeculid mite

Amblyomma **C. L. Koch, 1844** ..... **Cretaceous – Recent**

7. *Amblyomma* near *argentinae* Neumann, 1905 **[Recent]** (as *testudinis*) *in* Lane & Poinar (1986) ..... Ne–R Dominican amber
8. *Amblyomma birmitum* Chitima-Dobler, Araujo, Ruthensteiner, Pfeffer & Dunlop, 2017 ..... K Burmese amber
9. *Amblyomma* near *dissimile* C. L. Koch, 1844 **[Recent]** *in* Kierens *et al*. (1986) ..... Ne–R Dominican amber

   Amblyomma sp. (Klompen *in* Grimaldi *et al*. 2002) ..... K Burmese amber

† ***Compluriscutula*** **Poinar & Buckley, 2008** ..... **Cretaceous**

10. *Compluriscutula vetulum* Poinar & Buckley, 2008* ..... K Burmese amber

† ***Cornupalpatum*** **Poinar & Brown, 2003** ..... **Cretaceous**

11. *Cornupalpatum burmanicum* Poinar & Brown, 2003* ..... K Burmese amber

Dermacentor **C. L. Koch, 1844** ..... **Neogene – Recent**

12. *Dermacentor* nr. *reticulatus* (Fabricius, 1794) **[Recent]** (*in* Kulczyński *in* Schille 1916) ..... Ne–R in a Rhino's ear

Haemaphysalis **C. L. Koch, 1844** ..... **Cretaceous – Recent**

13. *Haemaphysalis* (*Alloceraea*) *cretacea* Chitimia-Dobler, Pfeffer & Dunlop, 2018 ..... K Burmese amber

Ixodes **Latreille, 1795** ..... **Palaeogene – Recent**

14. *Ixodes sigelos* Keirans, Clifford & Corwin, 1976 **[Recent]** ..... Qt Argentina
15. *Ixodes* (*Partipalpiger*) *succineus* Weidner, 1964 ..... Pa Baltic amber

MESOSTIGMATA G. Canestrini, 1891 (suborder) ..... **Palaeogene – Recent**

= GAMASIDA Leach, 1815

SEJIDA Kramer, 1885 (infraorder) ..... **Recent**

= LIROASPINA author, date?

= TRICHOPYGIDIINA author, date?

SEJOIDEA Berlese, 1885 ..... **Recent**

ICHTHYOSTOMATOGASTERIDAE Sellnick, 1953 ..... **Recent**

no fossil record

SEJIDAE Berlese, 1885 ..... **Recent**

= LIROASPIDIDAE Trägårdh, 1946

no fossil record

see *Sejus bdelloides* under *nomina dubia*

UROPODELLIDAE Camin, 1955 ..... **Recent**

no fossil record

TRIGYNASPIDA Camin & Gorirossi, 1955 (infraorder) ..... **Recent**

CERCOMEGISTINA Camin & Gorirossi, 1955 (cohort) ..... **Recent**

CERCOMEGISTOIDEA Trägårdh, 1937 ..... **Recent**

ASTERNOSEIIDAE Vale, 1955 ..... **Recent**

no fossil record

CERCOMEGISTIDAE Trägårdh, 1937 ..... **Recent**

no fossil record

DAVACARIDAE Kethley, 1979 ..... **Recent**

no fossil record

PYROSEJIDAE Lindquist & Moraza, 1993 ..... **Recent**

no fossil record

SALTISEIIDAE Walter, 2000 ..... **Recent**

no fossil record

SEIODIDAE Kethley, 1979 ..... **Recent**

no fossil record

ANTENNOPHORINA Berlese, 1882 (cohort) ..... **Recent**

ANTENNOPHOROIDEA Berlese, 1892 ..... **Recent**

ANTENNOPHORIDAE Berlese, 1892 ..... **Recent**

no fossil record

CELAENOPSOIDEA Berlese, 1892 ..... **Recent**

CELAENOPSIDAE Berlse, 1892 ..... **Recent**

no fossil record

COSTACARIDAE Hunter, 1993 ..... **Recent**

no fossil record

DIPLOGYNIIDAE Trägårdh, 1941 ..... **Recent**

no fossil record

EUZERCONIDAE Trägårdh, 1938 ..... **Recent**

no fossil record

MEGACELAENOPSIDAE Funck, 1975 ..... **Recent**

no fossil record

MEINERTULIDAE Trägårdh, 1950 ..... **Recent**

no fossil record

NEOTENOGYNIIDAE Kethley, 1974 ..... **Recent**

no fossil record

SCHIZOGYNIIDAE Trägårdh, 1950 ..... **Recent**

no fossil record

TRIPLOGYNIIDAE Funck, 1977 ..... **Recent**

no fossil record

PARAMEGISTOIDEA Trägårdh, 1946 ..... **Recent**

PARAMEGISTIDAE Trägårdh, 1946 ..... **Recent**

no fossil record

FEDRIZZIOIDEA Trägårdh, 1937 ..... **Recent**

FEDRIZZIIDAE Trägårdh, 1937 ..... **Recent**

no fossil record

KLINCKOWSTROEMIIDAE Camin & Gorirossi, 1955 ..... **Recent**

no fossil record

PROMEGISTIDAE Kethley, 1979 ..... **Recent**

no fossil record

MEGISTHANOIDEA Berlese, 1914 ..... **Recent**

HOPLOMEGISTIDAE Camin & Gorirossi, 1955 ..... **Recent**

no fossil record

MEGISTHANIDAE Berlese, 1914 ..... **Recent**

no fossil record

PARANTENNULOIDEA Willmann, 1940 ..... **Recent**

PARANTENNULIDAE Willmann, 1940 ..... **Recent**

no fossil record

PHILODANIDAE Kethley, 1977*b* ..... **Recent**

no fossil record

AENICTEQUOIDEA Kethley, 1979 ..... **Recent**

AENICTEQUIDAE Kethley, 1979 ..... **Recent**

no fossil record

EUPHYSALOZERCONIDAE Kim, 2008..... **Recent**

no fossil record

MESSORACARIDAE Kethley, 1977 ..... **Recent**

no fossil record

PHYSALOZERCONIDAE Kethley, 1977 ..... **Recent**

no fossil record

PTOCHACARIDAE Kethley, 1979 ..... **Recent**

no fossil record

MONOGYNASPIDA Camin &Goriossi, 1955 (infrorder) ..... **Palaeogene – Recent**

MICROGYNIINA Trägårdh, 1942 (cohort) ..... **Palaeogene –Recent**

MICROGYNIOIDEA Trägårdh, 1942 ..... **Palaeogene –Recent**

Microgynoidea sp. *in* Dunlop *et al*. (2013) ..... Pa Baltic amber

MICROGYNIIDAE Trägårdh, 1942 ..... **Recent**

= MICROSEJIDAE Trägårdh, 1942

no fossil record

NOTHOGYNIDAE Walter & Kranz, 1999 ..... **Recent**

no fossil record

HEATHERELLINA author, date? (cohort) ..... **Recent**

HEATHERELLOIDEA Walter, 1997 ..... **Recent**

HEATHERELLIDAE Walter, 1997 ..... **Recent**

no fossil record

UROPODOIDEA Kramer, 1881 (cohort) ..... **Palaeogene – Recent**

UROPODIAE Kramer, 1881 (subcohort)..... **Palaeogene – Recent**

PROTODINYCHOIDEA Evans, 1957 ..... **Recent**

PROTODINYCHIDAE Evans, 1957 ..... **Recent**

no fossil record

THINOZERCONOIDEA Halbert, 1915 ..... **Recent**

THINOZERCONIDAE Halbert, 1915 ..... **Recent**

no fossil record

POLYASPIDOIDEA Berlese, 1913 ..... **Recent**

DITHINOZERCONIDAE Ainscough, 1979 ..... **Recent**

no fossil record

POLYASPIDIDAE Berlese, 1913 ..... **Recent**

no fossil record

TRACHYTIDAE Trägårdh, 1938 ..... **Recent**

no fossil record

UROPODOIDEA Kramer, 1881 ..... **Palaeogene – Recent**

BALOGHJKASZABIIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

BRASILUROPODIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

CILLIBIDAE Trägårdh, 1944 ..... **Recent**

no fossil record

CLAUSIADINYCHIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

CIRCOCYLLIBAMIDAE Sellnick, 1926 ..... **Recent**

no fossil record

CYLLIBULIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

DERAIOPHORIDAE Trägårdh, 1952 ..... **Recent**

no fossil record

DINYCHIDAE Berlese, 1916 ..... **Recent**

no fossil record

DISCOURELLIDAE Baker & Wharton, 1952 ..... **Recent**

no fossil record

EUTRACHYTIDAE Trägårdh, 1944..... **Recent**

no fossil record

HUTUFEIDERIIDAE Hirschmann, 1979..... **Recent**

no fossil record

KASZABJBALOGHIIDAE Hirschmann, 1979..... **Recent**

no fossil record

MACRODINYCHIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

METAGYNURIDAE Balogh, 1943 ..... **Recent**

no fossil record

NENTERIIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

OPLITIDAE Johnston, 1968 ..... **Recent**

no fossil record

PHYMATODISCIDAE Hirschmann, 1979..... **Recent**

no fossil record

PRODINYCHIDAE Berlese, 1917..... **Recent**

no fossil record

ROTUNDABALOGHIIDAE Hirschmann, 1979..... **Recent**

no fossil record

TERASEJASPIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

TREMATURIDAE Berlese, 1917 ..... **?Palaeogene – Recent**

= TREMATURELLIDAE Trägårdh, 1944

?Trematuridae *in* Lyubarsky & Perkovsky (2012) ..... Pa Rovno amber

***Trichouropoda* Berlese, 1916** ..... **?Palaeogene – Recent**

?*Trichouropoda* sp. [as *Oodinychus* sp.] *in* Ramsay (1960) ..... Qt New Zealand

TRICHOCYLLIBIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

TRICHOUROPODELLIDAE Hirschmann, 1979 ..... **Recent**

no fossil record

TRIGONUROPODIDAE Hirschmann *in* Wisniewski, 1979 ..... **Recent**

no fossil record

UROACTINIIDAE Hirschmann & Zirngiebl-Nicol, 1964 ..... **Recent**

no fossil record

URODIASPIDIDAE Trägårdh, 1944 ..... **Recent**

no fossil record

URODINYCHIDAE Berlese, 1917 ..... **Palaeogene – Recent**

***Uroobovella* Berlese, 1903** ..... **?Palaeogene – Recent**

?*Uroobovella* sp. *in* Dunlop *et al*. (2013) ..... Pa Baltic amber

UROPODIDAE Kramer, 1881 ..... **Recent**

no fossil record

TRACHYUROPODOIDEA Berlese, 1917 ..... **Recent**

TRACHYUROPODIDAE Berlese, 1917 ..... **Recent**

no fossil record

DIARTHROPHALLIAE Trägårdh, 1946 (subcohort) ..... **Recent**

DIARTHROPHALLOIDEA Trägårdh, 1946 ..... **Recent**

DIARTHROPHALLIDAE Trägårdh, 1946 ..... **Recent**

no fossil record

HETEROZERCONINA author, date? (cohort) ..... **Recent**

HETEROZERCONOIDEA Berlese, 1892 ..... **Recent**

DISCOZERCONIDAE Berlese, 1910 ..... **Recent**

no fossil record

HETEROZERCONIDAE Berlese, 1892 ..... **Recent**

no fossil record

GAMASINA Kramer, 1881 (cohort) ..... **Palaeogene – Recent**

Gamasina indet. *in* Perkovsky *et al*. (2007) ..... Pa Rovno amber

EPICRIIAE Vitzthum, 1938 (subcohort) ..... **Neogene – Recent**

EPICRIOIDEA Berlese, 1885 ..... **Recent**

EPICRIIDAE Berlese, 1885 ..... **Recent**

no fossil record

ZERCONOIDEA Berlese, 1892 ..... **Neogene – Recent**

COPROZERCONIDAE Moraza & Lindquist, 1999..... **Recent**

no fossil record

ZERCONIDAE Berlese, 1892 ..... **Neogene – Recent**

† ***Paleozercon* Błaszak, Cokendolpher & Polyak, 1995**..... **Neogene**

16. *Paleozercon cavernicolus* Błaszak, Cokendolpher & Polyak, 1995..... Ne New Mexico

ARCTACARIAE Johnston, 1982 (subcohort)..... **Recent**

ARCTACAROIDEA Evans, 1955 ..... **Recent**

ARCTACARIDAE Evans, 1955 ..... **Recent**

no fossil record

PARASITIAE Reuter, 1909 (subcohort) ..... **Palaeogene – Recent**

PARASITOIDEA Oudemans, 1901 ..... **Palaeogene – Recent**

PARASITIDAE Oudemans, 1901 ..... **Palaeogene – Recent**

?Parasitidae indet. *in* Dunlop & Falkenhagen (2014) ..... Qt Germany

***Aclerogamasus* Athias, 1971** ..... **Palaeogene – Recent**

17. *Aclerogamasus stenocornis* Witaliński, 2000 ..... Pa Baltic amber

***Gamasus* Latreille, 1802** ..... **?Palaeogene – Recent**

18. *Gamasus fossils* Mani, 1945 [generic affinities questionable] ..... Pa Worli Hill, India

DERMANYSSIAE Evans & Till, 1997 (subcohort)..... **Palaeogene – Recent**

VEIGAIOIDEA Oudemans, 1939 ..... **Recent**

VEIGAIIDAE Oudemans, 1939 ..... **Recent**

= GAMASOLAELAPTIDAE Oudemans, 1939

no fossil record

RHODACAROIDEA Oudemans, 1902 ..... **Palaeogene – Recent**

DIGAMASELLIDAE Evans, 1954 …[or 57?]..... **Palaeogene – Recent**

Digamasellidae sp. *in* Perkovsky *et al*. (2007)..... Pa Rovno amber

***Dendrolaelaps* Halbert, 1915** ..... **Neogene – Recent**

19. *Dendrolaelaps fossilis* Hirschman, 1971 ..... Ne Chiapas amber

EURYPARASITIDAE d'Antony, 1987 ..... **Recent**

no fossil record

GAMASIPHIDAE author, date? ..... **Recent**

no fossil record

LAELAPTONYSSIDAE Womersley, 1956 ..... **Recent**

no fossil record

OLOGAMASIDAE Ryke, 1962 ..... **Recent**

no fossil record

PANTENIPHIDIDAE d'Antony, 1987 ..... **Recent**

no fossil record

RHODACARIDAE Oudemans, 1902 ..... **Recent**

no fossil record

TERANYSSIDAE Halliday, 2006 ..... **Recent**

no fossil record

EVIPHIDOIDEA Berlese, 1913 ..... **Quaternary–Recent**

EVIPHIDIDAE Berlese, 1913 ..... **Recent**

no fossil record

MACROCHELIDAE Vitzthum, 1930 ..... **Quaternary–Recent**

***Macrocheles* Latreille, 1829** ..... **Quaternary–Recent**

Macrocheles sp. *in* Ramsay (1960) ..... Qt New Zealand

MEGALOLAELAPIDAE author, date? ..... **Recent**

no fossil record

PACHYLAELAPIDAE Berlese, 1913 ..... **Recent**

= NEOPARASITIDAE Oudemans, 1939

= BULBOGAMASIDAE Gu, Wang & Duan, 1991

no fossil record

PARHOLASPIDIDAE Evans, 1956 ..... **Recent**

no fossil record

ASCOIDEA Oudemans, 1905 ..... **Palaeogene – Recent**

AMEROSEIIDAE Evans *in* Hughs, 1961 ..... **Recent**

no fossil record

ASCIDAE Voigts & Oudemans, 1905 ..... **?Palaeogene – Recent**

?Ascidae sp. *in* Dunlop *et al*. (2013) ..... Pa Baltic amber

HALOLAELAPIDAE Karg, 1965 ..... **Recent**

no fossil record

MELICHARIDAE Hirschmann, 1962 ..... **Recent**

no fossil record

PODOCINIDAE Berlese, 1913 ..... **Quarternary – Recent**

Podocinidae sp. *in* Aoki (1974) ..... Qt Mizunami copal

PHYTOSEIOIDEA Berlese, 1916 ..... **Recent**

BLATTISCOIIDAE Garman, 1948 ..... **Recent**

no fossil record

OTOPHEIDOMENIDAE Treat, 1955 ..... **Recent**

no fossil record

PHYTOSEIIDAE Berlese, 1916 ..... **Recent**

no fossil record

DERMANYSSOIDEA Kolenati, 1859 ..... **Palaeogene – Recent**

DASYPONYSSIDAE Fonseca, 1940 ..... **Recent**

no fossil record

DERMANYSSIDAE Kolenati, 1859 ..... **Recent**

no fossil record

ENTONYSSIDAE Ewing, 1922 ..... **Recent**

no fossil record

HAEMOGAMASIDAE Oudemans, 1939 ..... **Recent**

no fossil record

HALARACHNIDAE Oudemans, 1906 ..... **Recent**

no fossil record

HIRSTIONYSSIDAE Evans & Till, 1966 ..... **Recent**

no fossil record

HYSTRICHONYSSIDAE Keegan, Yunker & Baker, 1960 ..... **Recent**

no fossil record

IPHIOPSIDIDAE Kramer, 1886 ..... **Recent**

no fossil record

IXODORHYNCHIDAE Ewing, 1923 ..... **Recent**

no fossil record

LAELAPIDAE Berlese, 1892 ..... **Palaeogene – Recent**

***Myrmozercon* Berlese, 1902** ..... **Palaeogene – Recent**

Myrmozercon sp. *in* Dunlop *et al*. (2014) ..... Pa Baltic amber

LARVAMIMIDAE Elzinga, 1993 ..... **Recent**

no fossil record

LEPTOLAELAPIDAE Karg, 1978 ..... **Recent**

no fossil record

MACRONYSSIDAE Oudemans , 1936 ..... **Recent**

no fossil record

MANITHERIONYSSIDAE Radovsky & Yunker, 1971 ..... **Recent**

no fossil record

OMENTOLAELAPTIDAE Fain, 1961 ..... **Recent**

no fossil record

PNEUMOPHIONYSSIDAE Fonseca, 1940 ..... **Recent**

no fossil record

RAILLIETIIDAE Vitzthum, 1942 ..... **Recent**

no fossil record

RHINONYSSIDAE Trouessart, 1895 ..... **Recent**

no fossil record

SPELAEORHYNCHIDAE Oudemans, 1902 ..... **Recent**

no fossil record

SPINTURNICIDAE Oudemans, 1902 ..... **Recent**

no fossil record

TRICHOASPIDIDAE Gu, Wang & Li, 1991 ..... **Recent**

no fossil record

VARROIDAE Delfinado & Baker, 1974 ..... **Recent**

no fossil record

nomina dubia

1. *Ixodes tertiarius* Scudder, 1885 ……Pa Wyoming
2. *Sejus bdelloides* C. L. Koch & Berendt, 1854 …… Pa Baltic amber

   not a parasitiform mite, probably ?Anystoidea *incertae sedis* according to Dunlop *et al*. (2018)

c. 12,500 Recent species

ACARIFORMES

332 currently valid species of fossil acariform mite

- higher systematics and sequence of taxa follows the third edition of *A Manual of Acarology* (Krantz & Walter, eds, 2009), except that their orders are listed here as suborders, and suborders as infraorders to achieve some degree of consistency with other arachnid higher taxa throughout this list
- a putative Ordovician mite described by Bernini *et al*. (2002) and assigned to the derived Brachypylina group of the oribatids remains controversial and is not formally listed below
- several fossils from the Triassic of India were described (Kumar & Kumar 1999) and subsequently named (Kumar 2004) as fossil lice, but are almost certainly prostigmatid and oribatid mites probably representing modern contaminents (Dalgleish *et al*. 2006)

ACARIFORMES Zachvatkin, 1952 ..... **Devonian – Recent**

= ACTINOTRICHIDA author, date?

TROMBIDIFORMES Reuter, 1909 (suborder)..... **Devonian – Recent**

SPHAEROLICHIDA OConnor, 1984 (infraorder)..... **Recent**

LORDALYCOIDEA Grandjean, 1939 ..... **Recent**

LORDALYCHIDAE Grandjean, 1939..... **Recent**

= HYBALICIDAE Theron, 1974

no fossil record

SPHAEROLICHOIDEA Berlese, 1913 ..... **Recent**

SPHAEROLICHIDAE Berlese, 1913 ..... **Recent**

no fossil record

PROSTIGMATA Kramer, 1877 (infraorder) ..... **Devonian – Recent**

LABIDOSTOMMATIDES Lindquist, Krantz & Walter, 2009 (s.cohort) **Palaeogene – Recent**

LABIDOSTOMMATOIDEA Oudemans, 1906 ..... **Palaeogene – Recent**

LABIDOSTOMMATIDAE Oudemans, 1906 ..... **Palaeogene – Recent**

= NICOLETIELLIDAE Canestrini, 1891

Labidostomatidae sp. *in* Sidorchuk & Bertrand (2013) ..... Pa Rovno amber

Labidostomatidae sp. *in* Sidorchuk & Bertrand (2013) ..... Pa Bitterfeld amber

***Labidostomma* Kramer, 1879**..... **Palaeogene – Recent**

1. *Labidostomma* (*Nicoletiella*) *paleoluteum* Dunlop & Bertrand, 2011 ..... Pa Baltic amber
2. *Labidostomma* (*Pseudocornutella*) *electri* Sidorchuk & Bertrand, 2013 .. Pa Baltic amber

***Sellnickiella* Feider & Vasiliu, 1969**..... **Palaeogene – Recent**

3. *Sellnickiella balticae* Sidorchuk & Bertrand, 2013 ..... Pa Baltic amber

EUPODIDES Krantz, 1978 (supercohort) ..... **Devonian – Recent**

BDELLOIDEA Dugès, 1834 ..... **Cretaceous – Recent**

BDELLIDAE Dugès, 1834 ..... **Cretaceous – Recent**

Bdellidae sp. *in* Aoki (1974) ..... Qt Mizunami copal

***Bdella* Latreille, 1795** ..... **Cretaceous – Recent**

4. *Bdella bicincta* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
5. *Bdella bombycina* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
6. *Bdella obconica* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
7. *Bdella vetusta* Ewing, 1937 ..... K Canadian amber

***Bdellodes* Oudemans, 1937** ..... **Palaeogene – Recent**

8. *Bdellodes lata* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

CUNAXIDAE Thor, 1902 ..... **Recent**

no fossil record

HALACAROIDEA Murray, 1877 ..... **Recent**

HALACARIDAE Murray, 1877 ..... **Recent**

no fossil record

PEZIDAE Harvey, 1990 ..... **Recent**

no fossil record

EUPODOIDEA C. L. Koch, 1842 ..... **Palaeogene – Recent**

COCCEUPODIDAE Jesionowska, 2010 ..... **Recent**

no fossil record

DENDOCHAETIDAE Oliver, 2008 ..... **Recent**

no fossil record

EUPODIDAE C. L. Koch, 1842 ..... **Recent**

no fossil record

ERIORHYNCHIDAE Qin & Halliday, 1997 ..... **Recent**

no fossil record

PENTAPALPIDAE Oliver & Theron, 2000 ..... **Recent**

no fossil record

PENTHALEIDAE Oudemans, 1931 ..... **Recent**

no fossil record

PENTHALODIDAE Thor, 1933 ..... **Palaogene – Recent**

***Penthalodes* Murray, 1877** ..... **Palaeogene – Recent**

9. *Penthalodes tristiculus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

PROTERORHAGIIDAE Lindquist & Palacios-Vargas, 1991 ..... **Recent**

no fossil record

RHAGIDIIDAE Oudemans, 1922 ..... **Paleogene – Recent**

Rhagidiidae indet. *in* Judson & Wunderlich (2003) ..... Pa Baltic amber

***Poecilophysis* O. P.-Cambridge, 1876** ..... **Paleogene – Recent**

?*Poecilophysis* sp. *in* Judson & Wunderlich (2003) ..... Pa Baltic amber

† ***Zachardia* Judson & Wunderlich, 2003** ..... **Paleogene**

10. *Zachardia flexipes* Judson & Wunderlich, 2003 ..... Pa Baltic amber

STRANDTMANNIIDAE Zacharda, 1979 ..... **Recent**

no fossil record

TYDEOIDEA Kramer, 1877 ..... **Devonian – Recent**

EREYNETIDAE Oudemans, 1931 ..... **Recent**

= MICROEREUNETIDAE Bottazzi, 1950

no fossil record

IOLINIDAE Pritchard, 1956 ..... **Recent**

no fossil record

TRIOPHTYDEIDAE Andrè, 1980 ..... **Recent**

= MEYERELLIDAE André, 1979

no fossil record

TYDEIDAE Kramer, 1877 ..... **Devonian – Recent**

† ***Palaeotydeus* Dubinin, 1962** ..... **Devonian – Recent**

11. *Palaeotydeus devonicus* Dubinin, 1962 ..... D Rhynie chert

† ***Parapotacarus* Dubinin, 1962** ..... **Devonian – Recent**

12. *Paraprotacarus hirsti* Dubinin, 1962 ..... D Rhynie chert

TETRAPODILI *sensu* Oudemans, 1923 ..... **Triassic – Recent**

TRIASACAROIDEA Lindquist & Sidorchuk *in* Sidorchuk *et al*., 2014 ..... **Triassic**

TRIASACARIDAE Lindquist & Sidorchuk *in* Sidorchuk *et al*., 2014 ..... **Triassic**

† ***Ampezzoa* Linquist & Grimaldi *in* Schmidt *et al*., 2012,** ..... **Triassic**

13. *Ampezzoa triassica* Lindquist & Grimaldi *in* Schmidt *et al*., 2012* ..... Tr Italian amber

† ***Cheirolepidoptus* Sidorchuk & Lindquist *in* Sidorchuk *et al*. 2014** ..... **Triassic**

14. *Cheirolepidoptus dolomiticus* Sidorchuk & Lindquist *in* Sidorchuk *et al*., 2015* ..... Tr Italian amber

† ***Minyacarus*** **Sidorchuk & Lindquist *in* Sidorchuk *et al*., 2014** ..... **Triassic**

15. *Minyacarus aderces* Sidorchuk & Lindquist *in* Sidorchuk *et al*., 2015* ... Tr Italian amber

† ***Triasacarus*** **Linquist & Grimaldi *in* Schmidt *et al*., 2012,** ..... **Triassic – Recent**

16. *Triasacarus fedelei* Lindquist & Grimaldi *in* Schmidt *et al*., 2012*..... Tr Italian amber

ERIOPHYOIDEA Nalepa, 1898 ..... **?Palaeogene – Recent**

DIPTILOMIOPIDAE Keifer, 1944 ..... **Recent**

no fossil record

ERIOPHYIDAE Nalepa, 1898 ..... **?Palaeogene – Recent**

Aculops **Keifer, 1966** ..... **?Palaeogene – Recent**

17. *Aculops keiferi* Southcott & Lange, 1971 ..... ?Pa Australia

PHYTOPTIDAE Murray, 1877..... **Neogene – Recent**

= NALEPELLIDAE Roivainen, 1953

no fossil record

ANYSTIDES van der Hammen, 1972 (supercohort) ..... **Cretaceous – Recent**

ANYSTINA van der Hammen, 1972 (cohort) ..... **Cretaceous – Recent**

CAECULOIDEA Berlese, 1883 ..... **Paleogene – Recent**

CAECULIDAE Berlese, 1883 ..... **Paleogene – Recent**

Procaeculus **Jacot, 1936** ..... **Paleogene – Recent**

18. *Procaeculus dominicensis* Coineau & Poinar, 2001 ..... Ne Dominican amber

19. *Procaeculus eridanosae* Coineau & Magowski, 1994 ..... Pa Baltic amber

Procaeculus sp. *in* Rivas *et al*. (2016) ..... Ne Dominican amber

ADAMYSTOIDEA Cunliffe, 1957 ..... **Recent**

ADAMYSTIDAE Cunliffe, 1957 ..... **Recent**

= SAXIDROMIDAE Coineau, 1974

no fossil record

ANYSTOIDEA Oudemans, 1902..... **Cretaceous – Recent**

ANYSTIDAE Oudemans, 1902 ..... **Cretaceous – Recent**

Anystidae sp. *in* Aoki (1974) ..... Qt Mizunami copal

Anystis **von Heyden, 1826** ..... **Cretaceous – Recent**

20. *Anystis malleator* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

21. *Anystis subnuda* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

22. *Anystis venustula* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

† ***Mesoanystis*** **Zacharda *in* Zacharda & Krivoluckij, 1985**..... **Cretaceous**

23. *Mesoanystis taymirensis* Zacharda *in* Zacharda & Krivoluckij, 1985*..... K Siberian amber

† ***Palaeoerythracarus*** **Zacharda *in* Zacharda & Krivoluckij, 1985**..... **Palaeogene**

24. *Palaeoerythracarus sachalinensis* Zacharda *in* Zacharda & Krivoluckij, 1985* ..... Pa Sachalin amber

PSEUDOCHEYLIDAE Oudemans, 1909 ..... **Recent**

= STIGMOCHEYLIDAE Kethley, 1990

no fossil record

TENERIFFIIDAE Thor, 1911*b* ..... **Paleogene – Recent**

Teneriffiidae sp. indet *in* Sayre *et al*. (1992) ..... Pa Baltic amber

PARATYDEOIDEA Baker, 1949 ..... **Recent**

PARATYDEIDAE Baker, 1949 ..... **Recent**

no fossil record

STIGMOCHEYLIDAE Kethley, 1990 ..... **Recent**

no fossil record

POMERANTZIOIDEA Baker, 1949 ..... **Recent**

POMERANTZIIDAE Baker, 1949 ..... **Recent**

no fossil record

PARASITENGONA Oudemans, 1909 (cohort) ..... **Cretaceous – Recent**

ERYTHRAIAE author, date? (subcohort) ..... **Cretaceous – Recent**

CALYPTOSTOMATOIDEA Oudemans, 1923 ..... **Recent**

CALYPTOSTOMATIDAE Oudemans, 1923 ..... **Palaeogene–Recent**

***Calyptostoma* Cambridge, 1875** ..... **Paleogene–Recent**

25. *Calyptostoma katyae* Konikiewicz, Wohltmann & Mąkol, 2016 ..... Pa Baltic amber

ERYTHRAEOIDEA Grandjean, 1947*a* ..... **Cretaceous – Recent**

larval Erythraeoidea *in* Zacharda & Krivoluckij (1985) ..... K Siberian amber

ERYTHRAEIDAE Robineau-Desvoidy, 1828 ..... **Cretaceous – Recent**

= LEPTIDAE Billberg, 1820

= BALUSTIIDAE Grandjean, 1947

= † PROTERYTHRAEIDAE Vercammen-Grandjean, 1973

Erythraeidae sp. *in* Aoki (1974) ..... Qt Mizunami copal

Erythraeidae indet *in* Poinar *et al*. (2010) ..... K Canadian amber

† ***Arytaena* Menge, 1854 *in* C. L. Koch & Berendt, 1854** ..... **Paleogene**

26. *Arytaena troguloides* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

***Balaustium* von Heyden, 1826** ..... **Paleogene – Recent**

27. *Balaustium illustris* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

† ***Burerythrites* Konikiewicz & Mąkol, 2018** ..... **Cretaceous**

28. *Burerythrites pankowskii* Konikiewicz & Mąkol, 2018* ..... K Burmese amber

† ***Burphanolophus*** **Konikiewicz & Mąkol, 2018** ..... **Cretaceous**

29. *Burphanolophus joergwunderlichi* Konikiewicz & Mąkol, 2018* ..... K Burmese amber

Erythraeus **Latrielle, 1806** ..... **Paleogene – Recent**

30. *Erythraeus bifrons* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
31. *Erythraeus foveolatus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
32. *Erythraeus hirsutus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
33. *Erythraeus lagopus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
34. *Erythraeus longipes* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
35. *Erythraeus proavus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
36. *Erythraeus procerus* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
37. *Erythraeus raripilus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
38. *Erythraeus rostratus* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
39. *Erythraeus saccatus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

Leptus **Latrielle, 1796** ..... **Cretaceous – Recent**

Leptus sp. *in* Arillo *et al*. (2018) ..... K San Just amber

40. *Leptus incertus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

† ***Pararainbowia*** **Dunlop, 2007** ..... **Cretaceous**

41. *Pararainbowia martilli* Dunlop, 2007* ..... K Crato Formation

† ***Proterythraeus*** **Vercammen-Grandjean, 1973** ..... **Cretaceous**

42. *Proterythraeus southcotti* Vercammen-Grandjean, 1973* ..... K Manitoba amber

SMARIDIDAE Vitzthum, 1929 ..... **Cretaceous – Recent**

Smarididae indet *in* Penney (2010) ..... Ne Dominican amber

Smarididae indet *in* Perkovsky *et al*. (2010) ..... Pa Dominican amber

† ***Burfessonia*** **Konikiewicz & Mąkol, 2018** ..... **Cretaceous**

43. *Burfessonia maryae* Konikiewicz & Mąkol, 2018* ..... K Burmese amber

Fessonia **von Heyden, 1826** ..... **Paleogene – Recent**

44. *Fessonia grabenhorsti* Bartel, Konikiewicz, Mąkol, Wohltmann & Dunlop, 2015 ..... Pa Baltic amber
45. *Fessonia groehni* Bartel, Konikiewicz, Mąkol, Wohltmann & Dunlop, 2015 ..... Pa Baltic amber
46. *Fessonia wunderlichi* Bartel, Konikiewicz, Mąkol, Wohltmann & Dunlop, 2015 ..... Pa Baltic amber

† ***Immensmaris*** **Dunlop, Frahnert & Mąkol, 2018** ..... **Cretaceous**

47. *Immensmaris chewbaccei* Dunlop, Frahnert & Mąkol, 2018* ..... K Burmese amber

TROMBIDIAE author, date? (subcohort) ..... **Cretaceous – Recent**

trombidiid mites?

48. *Megameropsis aquensis* Gourret, 1887 ..... Pa Aix-en-Provence
49. *Pseudopachygnathus maculatus* Gourret, 1887 ..... Pa Aix-en-Provence

AMPHOTROMBIOIDEA Zhang, 1998 ..... **Recent**

AMPHOTROMBIIDAE, Zhang, 1998 ..... **Recent**

no fossil record

ALLOTANAUPODOIDAE Zhang & Fan, 2007 ..... **Recent**

ALLOTANAUPODIDAE Zhang & Fan, 2007 ..... **Recent**

no fossil record

TANAUPODOIDEA Thor, 1935 ..... **Creteaceous – Recent**

TANAUPODIDAE Thor, 1935 ..... **Creteaceous – Recent**

= ?AMPHOTROMBIIDAE Zhang, 1998

= TANAUPODASTRIDAE Feider, 1959

† ***Atanaupodus*** **Judson & Mąkol, 2009** ..... **Cretaceous**

50. *Atanaupodus bakeri* Judson & Mąkol, 2009 ..... K Archingeay amber

Eothrombium **Berlese, 1910** ..... **Paleogene – Recent**

51. *Eothrombium fortesambiense* Mąkol, Konikiewicz & Klug, 2018 ..... Pa Baltic amber

† ***Propolyssenia*** **Mąkol, Konikiewicz & Klug, 2018** ..... **Paleogene**

52. *Propolyssenia wohltmanni* Mąkol, Konikiewicz & Klug, 2018* ..... Pa Baltic amber

CHYZERIOIDEA Womersley, 1954 ..... **Recent**

CHYZERIIDAE Womersley, 1954 ..... **Recent**

no fossil record

TROMBIDIOIDEA Leach, 1815 ..... **Paleogene – Recent**

ACHAEMENOTHROMBIIDAE Saboori, Wohltmann & Hakimitabar, 2010 ..... **Recent**

no fossil record

EUTROMBIDIIDAE Thor, 1935 ..... **Recent**

no fossil record

MICROTROMBIDIIDAE Thor, 1935 ..... **Paleogene – Recent**

Porttrombidium **Haitlinger, 2000** ..... **Paleogene – Recent**

53. *Porttrombidium gedanense* Konikiewicz, Sontag & Mąkol, 2016 ..... Pa Baltic amber

NEOTHROMBIIDAE Feider, 1955 ..... **Recent**

no fossil record

TROMBIDIIDAE Leach, 1815 ..... **Paleogene – Recent**

= PARATHROMBIIDAE Feider, 1959

Allothrombium **Berlese, 1903** ..... **Paleogene – Recent**

54. *Allothrombium clavipes* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

Paratrombium **Bruyant, 1910** ..... **Paleogene – Recent**

55. *Paratrombium rovniense* Konikiewicz & Mąkol, 2014 ..... Pa Rovno amber

***Trombidium* Fabricius, 1775** ..... **Paleogene – Recent**

56. *Trombidium crassipes* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
57. *Trombidium granulatum* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
58. *Trombidium heterotrichum* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
59. *Trombidium scrobiculatum* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

NB: the next family may be a synonym

WALCHIIDAE Ewing, 1946 ..... **Recent**

no fossil record

TROMBICULOIDEA Ewing, 1929 ..... **Cretaceous – Recent**

AUDYANIDAE Southcott, 1987 ..... **Recent**

no fossil record

JOHNSTONIANIDAE Thor, 1935 ..... **Recent**

= NOTOTHROMBIIDAE Feider, 1959

no fossil record

NEOTROMBIDIIDAE Feider, 1959 ..... **Recent**

no fossil record

LEEUWENHOEKIIDAE Womersley, 1944 ..... **Recent**

no fossil record

TROMBELLIDAE Leach, 1815 ..... **Cretaceous – Recent**

***Nothrotrombidium* Wormesley, 1954** ..... **Cretaceous – Recent**

60. *Nothrotrombidium myanmarum* Konikiewicz & Mąkol, 2018 ..... K Burmese amber

TROMBICULIDAE Ewing, 1929 ..... **Recent**

= VATACARIDAE Southcott, 1957

no fossil record

YUREBILLOIDEA Southcott, 1966 ..... **Recent**

YUREBILLIDAE Southcott, 1996 ..... **Recent**

no fossil record

HYDRACARNIDIAE van der Hoeven, 1849 (subcohort) ..... **Neogene – Recent**

= HYDRACHNIDIA author, date?

= HYDRACHNELLAE author, date?

Undetermined water mites

Hygrobatoidea, Arrenuroidea or Lebertiodea *in* Poinar (1985) ..... Ne Dominican amber

HYDRYPHANTOIDEA Piersig, 1896 ..... **Recent**

CTENOTHYADIDAE Lundblad, 1936 ..... **Recent**

no fossil record

EUPATRELLIDAE Viets, 1935 ..... **Recent**

no fossil record

HYDRODROMIDAE Viets, 1936 ..... **Recent**

= DIPLODONTIDAE Lundblad, 1927

no fossil record

HYDRYPHANTIDAE Piersig, 1896 ..... **Recent**

= PROTZIIDAE Viets, 1926

no fossil record

MALGASACARIDAE Tuzovskij, Gerecke & Goldschmidt, 2007 ..... **Recent**

no fossil record

RHYNCHOHYDRACARIDAE Lundblad, 1936 ..... **Recent**

= CHATHROSPERCHONIDAE Lundblad, 1936

no fossil record

TERATOTHYADIDAE Viets, 1929 ..... **Recent**

no fossil record

THERMACARIDAE Sokolow, 1927 ..... **Recent**

no fossil record

ZELANDOTHYADIDAE Cook, 1983 ..... **Recent**

no fossil record

EYLAOIDEA Leach, 1815 ..... **Recent**

APHEVIDERULICIDAE Gerecke, Smith & Cook, 1999 ..... **Recent**

no fossil record

EYLAIDAE Leach, 1815 ..... **Recent**

no fossil record

LIMNOCHARIDAE Grube, 1859 ..... **Recent**

no fossil record

PIERSIGIIDAE Oudemans, 1902 ..... **Recent**

no fossil record

HYDROVOLZIOIDEA Thor, 1905 ..... **Recent**

ACHERONTACARIDAE Cook, 1967 ..... **Recent**

no fossil record

HYDROVOLZIIDAE Thor, 1905 ..... **Recent**

= POLYXOHALACARIDAE Motas, 1972

no fossil record

HYDRACHNOIDEA Leach, 1815 ..... **Recent**

HYDRACHNIDAE Leach, 1815 ..... **Recent**

no fossil record

LEBERTOIDEA Thor, 1900 ..... **Recent**

ACUCAPITIDAE Wiles, 1996 ..... **Recent**

no fossil record

ANISITSIELLIDAE Koenicke, 1910 ..... **Recent**

= MAMERSOPSIDAE Viets, 1914

no fossil record

BANDAKIOPSIDAE Panesar, 2004 ..... **Recent**

no fossil record

LEBERTIIDAE Thor, 1900 ..... **Recent**

no fossil record

NILOTONIIDAE Viets, 1929 ..... **Recent**

no fossil record

OXIDAE Viets, 1926 ..... **Recent**

no fossil record

RUTRIPALPIDAE Solokow, 1834 ..... **Recent**

no fossil record

SPERCHONTIDAE Thor, 1900 ..... **Recent**

no fossil record

STYGOTONIIDAE Cook, 1992 ..... **Recent**

no fossil record

TEUTONIDAE Koenike, 1910 ..... **Recent**

no fossil record

TORRENTICOLIDAE Piersig, 1902 ..... **Recent**

= ATRACTIDEIDAE Thor, 1902

no fossil record

HYGROBATOIDEA C. L. Koch, 1842 ..... **Recent**

ASTACOCROTONIDAE Thor, 1927 ..... **Recent**

no fossil record

ATURIDAE Thor, 1900 ..... **Recent**

= BRADYPODIDAE Thor, 1900 [preoccupied]

= AXONOPSIDAE Viets, 1929

= LJANIIDAE Thor, 1929

no fossil record

FELTRIIDAE Viets, 1926 ..... **Recent**

no fossil record

FERRADASIIDAE Cook, 1980 ..... **Recent**

no fossil record

FRONTIPODOPSIDAE Viets, 1931 ..... **Recent**

no fossil record

HYGROBATIDAE C. L. Koch, 1842*b* ..... **Recent**

no fossil record

LETHAXONIDAE Cook, Smith & Harvey, 2000 ..... **Recent**

no fossil record

LIMNESIIDAE Thor, 1900 ..... **Recent**

= NEOTORRENTICOLIDAE Lundblad, 1936

= EPALLAGOPODIDAE Viets, 1953

no fossil record

OMARTACARIDAE Cook, 1963 ..... **Recent**

no fossil record

PIONIDAE Thor, 1900 ..... **Recent**

= CURVIPEDIDAE Thor, 1900

= ACERCIDAE Thor, 1909

= FORELIIDAE Thor, 1923

= NAUTARACHNIDAE Walter, 1925

= HYDROCHOREUTIDAE Viets, 1942

no fossil record

PONTARACHNIDAE Koenicke, 1910 ..... **Recent**

no fossil record

UNIONICOLIDAE Oudemans, 1909 ..... **Recent**

= ATRACIDAE Thor, 1900

= NEUMANIIDAE Thor, 1923

no fossil record

WETTINIDAE Cook, 1956..... **Recent**

no fossil record

ARRENUROIDEA Thor, 1900 ..... **Neogene – Recent**

Family uncertain

† ***Protoarrenurus* Cook *in* Palmer, 1957** ..... **Neogene – Recent**

61. *Protoarrenurus convergens* Cook *in* Palmer, 1957* ..... Ne Mojave Desert

ACALYPTONOTIDAE Walter, 1911 ..... **Recent**

no fossil record

AMOENACARIDAE Smith & Cook, 1997 ..... **Recent**

no fossil record

ARENOHYDRACARIDAE Cook, 1974 ..... **Recent**

no fossil record

ARRENURIDAE Thor, 1900 ..... **Recent**

no fossil record

ATHIENEMANNIIDAE Viets, 1922 ..... **Recent**

= CHELOMIDEOPSIDAE Lundblad, 1962

no fossil record

BOGATIIDAE Motas & Tanasachi, 1938 ..... **Recent**

no fossil record

CHAPPUISIDIDAE Motas & Tanasachi, 1946 ..... **Recent**

no fossil record

GRETACARIDAE Viets, 1978 ..... **Recent**

no fossil record

HARPAGOPALPIDAE Viets, 1924 ..... **Recent**

no fossil record

HUNGAROHYDRACACARIDAE Motas & Tanasachi, 1959 ..... **Recent**

no fossil record

KANTACARIDAE Imamura, 1959 ..... **Recent**

no fossil record

KRENDOWSKIIDAE Viets, 1926 ..... **Recent**

no fossil record

LAVERSIIDAE Cook, 1955 ..... **Recent**

no fossil record

MIDEIDAE Thor, 1911a ..... **Recent**

no fossil record

MIDEOPSIDAE Koenicke, 1910 ..... **Recent**

no fossil record

MOMONIIDAE Viets, 1926 ..... **Recent**

= STYGOMOMONIDAE Szalay, 1943

no fossil record

NEOACARIDAE Motas & Tanasachi, 1947 ..... **Recent**

no fossil record

NIPPONACARIDAE Imamura, 1959 ..... **Recent**

no fossil record

NUDOMIDEOPSIDAE Smith, 1990 ..... **Recent**

no fossil record

UCHIDASTYGACARIDAE Imamura, 1956 ..... **Recent**

no fossil record

STYGOTHROMBIAE Thor, 1935 (subcohort) ..... **Recent**

STYGOTHROMBOIDEA Thor, 1935 ..... **Recent**

STYGOTHROMBIIDAE Thor, 1935 ..... **Recent**

ELEUTHERENGONIDES Oudemans, 1909 (supercohort) ..... **Cretaceous – Recent**

RAPHIGNATHINA Kethley, 1982 (cohort) ..... **Cretaceous – Recent**

MYOBIOIDEA Mégnin, 1877 ..... **Paleogene – Recent**

MYOBIIDAE Mégnin, 1877 ..... **Paleogene – Recent**

† ***Protohylomysobia*** **Sidorchuk & Bochkov *in* Sidorchuck *et al*. (2019)** ..... **Paleogene**

62. *Protohylomysobia erinaceophilus* Sidorchuk & Bochkov *in* Sidorchuk *et al*. (2019)* ..... Pa Baltic amber

PTERYGOSOMATOIDEA Oudemans, 1910 ..... **Cretaceous – Recent**

PTERYGOSOMATIDAE Oudemans, 1910 ..... **Cretaceous – Recent**

Pimeliaphilus **Trägårdh, 1905** ..... **Cretaceous – Recent**

Pimeliaphilus sp. *in* Sidorchuk & Khaustov (2018*a*) ..... K Archingeay amber

RAPHIGNATHOIDEA Kramer, 1877 ..... **Paleogene – Recent**

BARBUTIIDAE Robaux, 1975 ..... **Recent**

no fossil record

CALIGONELLIDAE Grandjean, 1944 ..... **Recent**

no fossil record

CAMEROBIIDAE Southcott, 1957a ..... **Paleogene – Recent**

Neophyllobius **Berlese, 1886** ..... **Paleogene – Recent**

63. *Neophyllobius succineus* Bolland & Magowski, 1990 ..... Pa Baltic amber

CRYPTOGNATHIDAE Oudemans, 1902 ..... **Paleogene – Recent**

no fossil record

DASYTHYREIDAE Walter & Gerson, 1998 ..... **Recent**

no fossil record

EUPALOPSELLIDAE Willmann, 1952 ..... **Recent**

no fossil record

HOMOCALIGIDAE Wood, 1969 ..... **Recent**

no fossil record

MECOGNATHIDAE Gerson & Walter, 1998 ..... **Recent**

no fossil record

RAPHIGNATHIDAE Kramer, 1877 ..... **Recent**

no fossil record

STIGMAEIDAE Oudemans, 1931 ..... **Paleogene – Recent**

Mediolata **Canestrini, 1890** ..... **Paleogene – Recent**

64. *Mediolata eocenia* Kuznetsov, Khaustov & Perkovsky, 2010 ..... Pa Rovno amber

XENOCALIGONELLIDIDAE Gonzalez, 1978 ..... **Recent**

no fossil record

TETRANYCHOIDEA Donnadieu, 1876 ..... **Palaeogene – Recent**

ALLOCHAETOPHORIDAE Reck, 1959 ..... **Recent**

no fossil record

LINOTETRANIDAE Baker & Pritchard, 1953 ..... **Recent**

no fossil record

TENUIPALPIDAE Berlese, 1913 ..... **Recent**

no fossil record

TETRANYCHIDAE Donnadieu, 1876 ..... **Palaeogene – Recent**

= BRYOBIIDAE Berlese, date?

***Metatetranychus* Oudemans, 1931** ..... **Palaeogene – Recent**

65. *Metatetranychus gibbus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

***Schizotetranychus* Trägårdh, 1915** ..... **Palaeogene – Recent**

66. *Schizotetranychus brevipes* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

TUCKERELLIDAE Baker & Pritchard, 1953 ..... **Palaeogene – Recent**

***Tuckerella* Wormesley, 1940** ..... **Palaeogene – Recent**

67. *Tuckerella fossilibus* Khaustov, Sergeyenko & Perkovsky, 2014 ..... Pa Rovno amber

68. *Tuckerella weiterschani* Sidorchuk & Khaustov, 2018*b* ..... Pa Baltic amber

CHEYLETOIDEA Leach, 1815 ..... **Cretaceous – Recent**

CHEYLETIDAE Leach, 1815 ..... **Cretaceous – Recent**

Chelytidae sp. indet. *in* Bradley (1931) ..... Pa Green River

***Cheyletus* Latreille, 1796** ..... **Cretaceous – Recent**

69. *Cheyletus burmiticus* Cockerell, 1917*b* ..... K Burmese amber

70. *Cheyletus portentosus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

DEMODECIDAE Nicolet, 1855 ..... **Recent**

no fossil record

HARPIRHYNCHIDAE Dubinin, 1957 ..... **Recent**

no fossil record

OPHIOPTIDAE Southcott, 1956 ..... **Recent**

no fossil record

PSORERGATIDAE Dubinin *in* Bregatova *et al*., 1955 ..... **Recent**

no fossil record

SYRINGOPHILIDAE Laviopierre, 1953 ..... **Recent**

no fossil record

HETEROSTIGMATA Berlese, 1899 (cohort) ..... **Cretaceous – Recent**

† **NASUTIACAROIDEA Sidorchuk & Lindquist *in* Sidirchuk *et al*., 2016** ..... **Cretaceous**

† **NASUTIACARIDAE Sidorchuk & Lindquist *in* Sidirchuk *et al*., 2016** ..... **Cretcaeous**

† ***Nasutiacarus* Sidorchuk & Lindquist *in* Sidirchuk *et al*., 2016** ..... **Cretcaeous**

71. *Nasutiacarus perplexus* Sidorchuk & Lindquist *in* Sidorchuk *et al*., 2016* ..... K French amber

TARSOCHEYLOIDEA Atyeo & Baker, 1964 ..... **Recent**

TARSOCHEYLIDAE Atyeo & Baker, 1964 ..... **Recent**

no fossil record

HETEROCHEYLOIDEA Trägårdh, 1950 ..... **Recent**

HETEROCHEYLIDAE Trägårdh, 1950 ..... **Recent**

no fossil record

DOLICHOCYBOIDEA Mahunka, 1970 ..... **Recent**

CROTALOMORPHIDAE Lindquist & Kranz, 2002 ..... **Recent**

no fossil record

DOLICHOCYBIDAE Mahunka, 1970 ..... **Recent**

no fossil record

TROCHOMETRIDIOIDEA Mahunka, 1970 ..... **Recent**

ATHYREACARIDAE Lindquist Kaliszewski & Rack, 1990 ..... **Recent**

= BEMBIDIACARIDAE Khuastov, 2000

no fossil record

TROCHOMETRIDIIDAE Mahunka, 1970 ..... **Recent**

no fossil record

SCUTACAROIDEA Oudemans, 1916 ..... **Recent**

MICRODISPIDAE Cross, 1965 ..... **Recent**

no fossil record

SCUTACARIDAE Oudemans, 1916 ..... **Recent**

no fossil record

PYGEMEPHOROIDEA Cross, 1965 ..... **Palaeogene – Recent**

Pygmephoroidea sp. *in* Magowski (1995) ..... Pa Baltic amber

NEOPYGMEPHORIDAE Cross, 1965 ..... **Recent**

no fossil record

PYGMEPHORIDAE Cross, 1965 ..... **Recent**

no fossil record

SITEROPTIDAE Mahunka, 1970 ..... **Recent**

no fossil record

PYEMOTOIDEA Oudemans, 1937 ..... **Cretaceous – Recent**

ACAROPHENACIDAE Cross, 1965 ..... **Cretaceous – Recent**

† ***Protophenax*** **Magowski, 1994** ..... **Cretaceous**

72. *Protophenax kotejii* Magowski, 1994* ..... K Russian amber

CARABOACARIDAE Mahunka, 1970 ..... **Recent**

no fossil record

PYEMOTIDAE Oudemans, 1937 ..... **Recent**

= TROCHOMETRIDAE Mahunka, 1970

Pyemotes **Amerling, 1862** ..... **Palaeogene – Recent**

73. *Pyemotes primus* Khaustov & Perkovsky, 2010 ..... Pa Rovno amber

RESINACARIDAE Mahunka, 1975 ..... **Cretaceous –Recent**

Protoresinacarus **Khaustov & Poinar, 2010** ..... **Cretaceous**

74. *Protoresinacarus brevipedis* Khaustov & Poinar, 2010* ..... K Burmese amber

TARSONEMOIDEA Canestrini & Fanzago, 1877 ..... **Quaternary – Recent**

PODAPOLIPIDAE Ewing, 1922 ..... **Recent**

no fossil record

TARSONEMIDAE Canestrini & Fanzango, 1877 ..... **Quaternary – Recent**

Tarsonemidae sp. *in* Aoki (1974) ..... Qt Mizunami copal

Cohort *incertae sedis*

CLOACAROIDEA Camin, Moss, Oliver & Singer, 1967 ..... **Recent**

CLOACARIDAE Camin, Moss, Oliver & Singer, 1967 ..... **Recent**

no fossil record

EPIMYODICIDAE Fain, Lukoschus & Rosmalen, 1982 ..... **Recent**

no fossil record

SARCOPTIFORMES author, date? **(suborder)** ..... **Devonian – Recent**

ENDEOSTIGMATA author, date? **(infraorder)** ..... **Devonian – Recent**

= PACHYGNATHINA author, date?

ALYCINA author, date? **(cohort)**

ALYCOIDEA Canestrini & Fanzago, 1877 ..... **Devonian – Recent**

ALYCIDAE Canestrini & Fanzago, 1877 ..... **Devonian – Recent**

= PACHYGNATHIDAE Kramer, 1877

= BIMICHAELIIDAE Womersley, 1944

† ***Protacarus*** **Hirst, 1923** ..... **Devonian**

75. *Protacarus crani* Hirst, 1923* ..... D Rhynie chert

GRANDJEANICIDAE Kethley, 1977a ..... **Recent**

no fossil record

MICROPSAMMIDAE Coineau & Theorn, 1983 ..... **Recent**

no fossil record

NANORCHESTIDAE Grandjean, 1937 ..... **Devonian – Recent**

† ***Protospeleorchestes*** **Dubinin, 1962** ..... **Devonian – Recent**

76. *Protospeleorchestes pseudoprotacarus* Dubinin, 1962* ..... D Rhynie chert

NEMATALYCINA author, date? **(cohort)** ..... **Recent**

NEMATALYCOIDEA Strenke, 1954 ..... **Recent**

NEMATALYCIDAE Strenke, 1954 ..... **Recent**

no fossil record

PROTONEMATALYCIDAE Kethley, 1989 [superfamily correct?] ..... **Recent**

no fossil record

TERPNACARINA author, date? **(cohort)** ..... **Recent**

OEHSERCHESTOIDEA Kethley, 1977*a* ..... **Recent**

OEHSERCHESTIDAE Kethley, 1977*a* ..... **Recent**

no fossil record

TERPNACAROIDEA Grandjean, 1939 ..... **Recent**

TERPNACARIDAE Grandjean, 1939 ..... **Recent**

no fossil record

ALICORHAGIINA author, date? **(cohort)** ..... **Devonian – Recent**

ALICORHAGIOIDEA Grandjean, 1939 ..... **Devonian – Recent**

ALICORHAGIIDAE Grandjean, 1939 ..... **Devonian – Recent**

† ***Archaeacarus* Kethley & Norton *in* Kethley *et al*., 1989** ..... **Devonian**

77. *Archaeacarus dubinini* Kethley & Norton *in* Kethley *et al*., 1989* ..... D Gilboa

† ***Pseudoprotacarus* Dubinin, 1962** ..... **Devonian**

78. *Pseudoprotacarus scoticus* Dubinin, 1962* ..... D Rhynie chert

ORIBATIDA Dugès, 1834 (infraorder) ..... **Devonian – Recent**

= CRYPTOSTIGMATA author, date?

NB: see remarks on the Ordovician fossil above

PALAEOSOMATA Grandjean, 1969 (supercohort) ..... **Devonian–Recent**

family uncertain

† ***Marcvipeda* Pérez-DA, 1988** ..... **Palaeogene**

79. *Marcvipeda magallanes* Pérez-DA, 1988* [Acari *incertae sedis*?]..... Pa Patagonia, Chile

ACARONYCHOIDEA Grandjean, 1932 ..... **Recent**

ACARONYCHIDAE Grandjean, 1932*b* ..... **Recent**

no fossil record

ARCHAEONOTHRIDAE Grandjean, 1932 ..... **Recent**

no fossil record

CTENACAROIDEA Grandjean, 1954*c* ..... **Devonian – Recent**

ADELPHACARIDAE Grandjean, 1954*c* ..... **Carbon. – Recent**

† ***Monoaphelacarus* Subías & Arillo, 2002** ..... **Carboniferous**

80. *Monoaphelacarus carboniferus* Subías & Arillo, 2002* ..... C County Antrim

APHELACARIDAE Grandjean, 1954*c* ..... **Recent**

no fossil record

CTENACARIDAE Grandjean, 1954*b* ..... **Devonian – Recent**

† ***Ctenacaronychus* Subías & Arillo, 2002** ..... **Devonian**

81. *Ctenacaronychus nortoni* Subías & Arillo, 2002* ..... D New York

† ***Palaeoctenacarus* Subías & Arillo, 2002** ..... **Carboniferous**

82. *Palaeoctenacarus simmsoi* Subías & Arillo, 2002* ..... C County Antrim

PALAEACAROIDEA Grandjean, 1932*b* ..... **Recent**

PALAEACARIDAE Grandjean, 1932*b* ..... **Recent**

no fossil record

ENARTHRONOTA Grandjean, 1947*b* (supercohort) ..... **Devonian – Recent**

superfamily uncertain

† **DEVONACARIDAE Norton *in* Norton *et al*., 1988** ..... **Devonian**

† ***Devonacarus* Norton *in* Norton *et al*., 1988** ..... **Devonian**

83. *Devonacarus sellnicki* Norton *in* Norton *et al*., 1988* ..... D Gilboa

† **PROTOCHTHONIIDAE Norton *in* Norton *et al*., 1988** ..... **Devonian**

† ***Protochthonius* Norton *in* Norton *et al*., 1988** ..... **Devonian**

84. *Protochthonius gilboa* Norton *in* Norton *et al*., 1988* ..... D Gilboa

BRACHYCHTHONIOIDEA Thor, 1934 ..... **Paleogene – Recent**

BRACHYCHTHONIIDAE Thor, 1934 ..... **Paleogene – Recent**

***Brachychthonius* Berlese, 1910** ..... **Paleogene – Recent**

Brachychthonius sp. *in* Sellnick (1931) ..... Pa Baltic amber

ATOPOCHTHONIOIDEA Grandjean, 1948 ..... **Recent**

ATOPOCHTHONIIDAE Grandjean, 1948 ..... **Recent**

no fossil record

PHYLLOCHTHONIIDAE Travé, 1967 ..... **Recent**

no fossil record

PTEROCHTHONIIDAE Grandjean, 1950 ..... **Recent**

no fossil record

HYPOCHTHONIOIDEA Berlese, 1910 ..... **Carbon. – Recent**

ENIOCHTHONIIDAE Grandjean, 1947*b* ..... **Recent**

no fossil record

HYPOCHTHONIIDAE Berlese, 1910 ..... **Carbon. – Recent**

***Hypochthonius* C. L. Koch, 1835** ..... **Quaternary – Recent**

85. *Hypochthonius rufulus* C. L. Koch, 1835 **[Recent]** ..... Qt Finland

† ***Palaeohypochthonius* Subías & Arillo, 2002** ..... **Carboniferous**

86. *Palaeohypochthonius jerami* Subías & Arillo, 2002* ..... C County Antrim

LOHMANNIIDAE Berlese, 1916 ..... **Recent**

= XENOLOHMANNIDAE Balogh & Mahunka, 1969

no fossil record

MESOPLOPHORIDAE Ewing, 1917 ..... **Recent**

= ARCHOPLOPHORIDAE Grandjean, 1965

no fossil record

PROTOPLOPHOROIDEA Ewing, 1917 ..... **Carbon. – Recent**

COSMOCHTHONIIDAE Grandjean, 1947*b* ..... **Carbon. – Recent**

† ***Carbochthonius* Subías & Arillo, 2002** ..... **Carboniferous**

87. *Carbochthonius antrimensis* Subías & Arillo, 2002* ..... C County Antrim

HAPLOCHTHONIIDAE van der Hammen, 1959 ..... **Recent**

no fossil record

PEDICULOCHELIDAE Lavoipierre, 1946 ..... **Recent**

no fossil record

PROTHOPLOPHORIDAE Ewing, 1917 ..... **Carbon. – Recent**

= APOPLOPHORIDAE Niedbała, 1984

† ***Archaeoplophora* Subías & Arillo, 2002** ..... **Carboniferous**

88. *Archaeoplophora bella* Subías & Arillo, 2002* ..... C County Antrim

SPHAEROCHTHONIIDAE Grandjean, 1947*b* ..... **Recent**

no fossil record

HETEROCHTHONOIDEA Grandjean, 1954*b* ..... **Recent**

ARBORICHTHONIIDAE Balogh & Balogh, 1992 ..... **Recent**

no fossil record

HETEROCHTHONIIDAE Grandjean, 1954*b* ..... **Recent**

no fossil record

TRICHTOCHTHONIIDAE Lee, 1982 ..... **Recent**

no fossil record

PARHYPOSOMATA Grandjean, 1969 (supercohort) ..... **Carbon. – Recent**

PARHYPOCHTHONIOIDEA Grandjean, 1932*b* ..... **Carbon. – Recent**

ELLIPTOCHTHONIIDAE Norton, 1975 ..... **Recent**

no fossil record

GEHYPOCHTHONIIDAE Strenzke, 1963 ..... **Carbon. – Recent**

† ***Gehypochthonimimus* Subías & Arillo, 2002** ..... **Carboniferous**

89. *Gehypchthonimimus hibernicus* Subías & Arillo, 2002* ..... C County Antrim

PARHYPOCHTHONIIDAE Grandjean, 1932*b* ..... **Recent**

no fossil record

MIXONOMATA Grandjean, 1969 (supercohort) ..... **Carbon. – Recent**

SUPERFAMILY UNCERTAIN

† **CARBOLOHMANNIIDAE Sidorchuk & Robin *in* Robin *et al.* (2016)** ..... **Carboniferous**

† ***Carbolohmannia* Sidorchuk & Robin *in* Robin *et al*. (2016)** ..... **Carboniferous**

90. *Carbolohmannia maimaiphilus* Sidorchuk & Robin *in* Robin *et al*. (2016)*C Xiaheyan, China

NEHYPOCHTHONOIDEA Norton & Metz, 1980 ..... **Recent**

NEHYPOCHTHONIIDAE Norton & Metz, 1980 ..... **Recent**

no fossil record

EULOHMANNOIDEA Grandjean, 1931 ..... **Recent**

EULOHMANNIIDAE Grandjean, 1931 ..... **Recent**

no fossil record

PERLOHMANNIOIDEA Grandjean, 1954*b* ..... **Recent**

PERLOHMANNIIDAE Grandjean, 1954*b* ..... **Recent**

no fossil record

EPILOHMANNIOIDEA Oudemans, 1923 ..... **Recent**

EPILOHMANNIIDAE Oudemans, 1923 ..... **Recent**

= LESSIRIIDAE Oudemans, 1916

no fossil record

COLLOHMANNIOIDEA Grandjean, 1958*a* ..... **Paleogene – Recent**

COLLOHMANNIIDAE Grandjean, 1958*a* ..... **Paleogene – Recent**

***Collohmannia* Sellnick, 1922** ..... **Paleogene – Recent**

91. *Collohmannia schusteri* Norton, 2006 ..... Pa Baltic amber

† ***Embolacarus* Sellnick, 1919** ..... **Palaeogene – Recent**

92. *Embolacarus pergratus* Sellnick, 1919* ..... Pa Baltic amber

EUPYCTIMA Grandjean, 1967 ..... **Palaeogene – Recent**

Eupyctima is listed here as a mixonomatid clade, but is not recognised in all classifications, or else is removed from this group and given equal rank

EUPHTHIRACAROIDEA Jacot, 1930 ..... **Palaeogene – Recent**

EUPHTHIRACARIDAE Jacot, 1930 ..... **Palaeogene – Recent**

***Microtritia* Märkel, 1964** ..... **Quaternary – Recent**

93. *Microtritia minima* (Berlese, 1904) **[Recent]** ..... Qt Germany

***Rhysotritia* Märkel & Meyer, 1959** ..... **Quaternary – Recent**

94. *Rhysotritia ardua* (C. L. Koch, 1841) **[Recent]** ..... Qt Germany

95. *Rhysotritia duplicata* (Grandjean, 1953) **[Recent]** ..... Qt Germany

ORIBOTRITIIDAE Grandjean, 1954b ..... **Palaeogene – Recent**

= SABAHTRITIIDAE Mahunka, 1987

Oribotritidae indet. *in* Kaulfuss *et al*. (2011) ..... Pa New Zealand amber

***Oribotritia* Jacot, 1924** ..... **Palaeogene – Recent**

96. *Oribotritia pyropus* (Sellnick, 1919) ..... Pa Baltic amber

97. *Oribotritia translucida* Sellnick, 1931 ..... Pa Baltic amber

SYNICHOTRITIIDAE Walker, 1965 ..... **Recent**

no fossil record

PHTHIRACAROIDEA Perty, 1841 ..... **Palaeogene – Recent**

PHTHIRACARIDAE Perty, 1841 ..... **Palaeogene – Recent**

= STEGANACARIDAE Niedbała, 1986

***Hoplophthiacarus* Jacot, 1933** ..... **Quaternary – Recent**

98. *Hoplophthiacarus pavidus* (Berlese, 1913) **[Recent]** ..... Qt Karelia, Russia

***Phthiacarus* Perty, 1841** ..... **Palaeogene – Recent**

99. *Phthiacarus borealis* Trägardh, date? **[Recent]** ..... Qt Karelia, Russia

100. *Phthiacarus multipunctus* (Sellnick, 1919) ..... Pa Baltic amber

***Steganacarus* Ewing, 1917a** ..... **Quaternary – Recent**

101. *Steganacarus applicatus* (Sellnick, 1920) **[Recent]** ..... Qt Denmark

102. *Steganacarus carinatus* (C. L. Koch, 1841) **[Recent]** ..... Qt Finland

103. *Steganacarus striculus* (C. L. Koch, 1835) **[Recent]** ..... Qt Europe

Steganacarus sp. ..... Qt Finland

DESMONOMATA Woodley, 1873 (supercohort) ..... **Jurassic – Recent**

NOTHRINA van der Hammen, 1982 (cohort) ..... **Jurassic – Recent**

= HOLOSOMATA author, date?

CROTONIOIDEA Thorell, 1876 ..... **Jurassic – Recent**

CAMISIIDAE Oudemans, 1900 ..... **Cretaceous – Recent**

***Camisia* von Heyden, 1826** ..... **Paleogene – Recent**

104. *Camisia foveolata* Hammer, 1955 **[Recent]** ..... Qt western Norway

105. *Camisia horrida* **[Recent]** *fossilis* Sellnick, 1919 ..... Pa Baltic amber

i. = *Nothrus kuehli* Karsch, 1884 ..... Pa Baltic amber

NB: unclear why the older name is the synonym

106. *Camisia invenusta* (Michael, 1888) **[Recent]** ..... Qt western Norway

107. *Camisia lapponica* Trägårdh, 1910 **[Recent]** ..... Qt Karelia, Russia

† ***Eocamisia* Bulanova-Zachvatkina, 1974** ..... **Cretaceous**

108. *Eocamisia sukatshevae* Bulanova-Zachvatkina, 1974* ..... K Siberian amber

***Platynothrus* Berlese, 1913** ..... **Quaternary – Recent**

109. *Platynothrus peltifer* (C. L. Koch, 1839) **[Recent]** ..... Qt Greenland

110. *Platynothrus punctatus* (L. Koch, 1879) **[Recent]** ..... Qt northern Europe

CROTONIIDAE Thorell, 1876 ..... **Neogene – Recent**

= HOLONOTHRIDAE Wallwork, 1963

***Crotonia* Thorell, 1876** ..... **Neogene – Recent**

111. *Crotonia ramus* (Womersley, 1957) ..... Ne Australian retinite

HERMANNIIDAE Sellnick, 1928 ..... **Palaeogene – Recent**

= GALAPAGACARIDAE P. Balogh, 1985

***Hermannia* Nicolet, 1855** ..... **Palaeogene – Recent**

112. *Hermannia gibba* (C. L. Koch, 1839) **[Recent]** ..... Qt Finland

113. *Hermannia reticulata* Thorell, 1871 **[Recent]** ..... Qt Subarctic – Arctic

114. *Hermannia scabra* (L. Koch, 1879) **[Recent]** ..... Qt Greenland

115. *Hermannia sellnicki* Norton, 2006 ..... Pa Baltic amber

MALACONOTHRIDAE Berlese, 1916 ..... **Quaternary – Recent**

***Malaconothrus* Berlese, 1904** ..... **Quaternary – Recent**

116. *Malaconothrus monodactylus* (Michael, 1888) **[Recent]** ..... Qt Europe

***Trimalaconothrus* Berlese, 1916** ..... **Quaternary – Recent**

117. *Trimalaconothrus maior* (Berlese, 1910) **[Recent]** ..... Qt northern Europe

NANHERMANNIIDAE Sellnick, 1928 ..... **Quaternary – Recent**

***Nanhermannia* Berlese, 1913** ..... **Quaternary – Recent**

118. *Nanhermannia coronata* Berlese, 1913 **[Recent]** ..... Qt Karelia, Russia

119. *Nanhermannia elegantula* Berlese, 1913 **[Recent]** ..... Qt Germany

NOTHRIDAE Berlese, 1896 ..... **Cretaceous – Recent**

***Nothrus* C. L. Koch, 1836** ..... **Cretaceous – Recent**

120. *Nothrus illautus* Sellnick, 1919 ..... Pa Baltic amber

121. *Nothrus punctulum* Karsch, 1884 ..... Pa Baltic amber

122. *Nothrus silvestris* Nicolet, 1855 **[Recent]** ..... Qt Europe

123. *Northrus vasquezae* Arillo & Subías *in* Arillo *et al.*, 2016 ..... K Spanish amber

TRHYPOCHTHONIIDAE Willmann, 1931 ..... **Jurassic – Recent**

= ALLONOTHRIDAE Lee, 1985

= MUCRONOTHRIDAE Kunst, 1972

= TRHYPOCHTHONIELLIDAE Knülle, 1957

***Afronothrus* Wallwork, 1961** ..... **Cretaceous – Recent**

124. *Afronothrus ornosae* Arillo & Subías *in* Arillo *et al.*, 2016 ..... K Spanish amber

***Allonothrus* van der Hammen, 1953** ..... **Neogene – Recent**

Allonothrus sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

† ***Juracarus* Krivolutsky *in* Krivolutsky & Krasilov, 1977** ..... **Jurassic – Recent**

125. *Juracarus serratus* Krivolutsky *in* Krivolutsky & Krasilov, 1977 ..... J Russian far east

***Mucronothrus* Trägårdh, 1931** ..... **Quaternary – Recent**

126. *Mucronothrus nasalis* (Willmann, 1929) **[Recent]** ..... Qt Karelia, Russia

† ***Palaeochthonius* Krivolutsky *in* Krivolutsky & Krasilov, 1977** ..... **Jurassic – Recent**

127. *Palaeochthonius krasilovi* Krivolutsky *in* Kriv. & Krasilov, 1977 ..... J Russian far east

***Trhypochthonius* Berlese, 1904** ..... **Cretaceous – Recent**

128. *Trhypochthonius badiformis* Sellnick, 1931 ..... Pa Baltic amber

129. *Trhypochthonius cladonicola* (Willmann, 1919) **[Recent]** ..... Qt Germany

130. *Trhypochthonius corniculatus* Sellnick, 1931 ..... Pa Baltic amber

131. *Trhypochthonius lopezvallei* Arillo, Subías & Shtanchaeva, 2012 ..... K San Just amber

132. *Trhypochthonius tectorum* (Berlese, 1896) **[Recent]** ..... Qt Karelia, Russia

BRACHYPYLINA Hull, 1918 (cohort) ..... Jurassic – Recent

= CIRCUMDEHISCENTIAE Grandjean, 1954*b*

= PORONOTA Grandjean, 1954*b* [in part; taxon used for seven brachypyline superfamilies]

superfamily uncertain

ARIBATIDAE Aoki, Takaku & Ito, 1994 ..... **Recent**

no fossil record

HERMANNIELLOIDEA Grandjean, 1934 ..... **Paleogene – Recent**

HERMANNIELLIDAE Grandjean, 1934 ..... **Paleogene – Recent**

***Hermanniella* Berlese, 1908** ..... **Paleogene – Recent**

133. *Hermanniella concamerata* Sellnick, 1931 ..... Pa Baltic amber

134. *Hermanniella tuberculata* Sellnick, 1919 ..... Pa Baltic amber

***Sacculobates* Grandjean, 1962** ..... **Neogene – Recent**

Sacculobates sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

PLASMOBATIDAE Grandjean, 1961*a* ..... **Recent**

no fossil record

NEOLIODOIDEA Sellnick, 1928 ..... **Cretaceous – Recent**

= LIODOIDEA Grandjean, 1954*b*

NEOLIODIDAE Sellnick, 1928 ..... **Cretaceous – Recent**

= LIODIDAE Grandjean, 1954*b*

***Neoliodes* Berlese, 1888** ..... **Palaeogene – Recent**

= *Liodes* von Heyden, 1826 [preoccupied]

135. *Neoliodes brevitarsus* (Woolley, 1971) ..... Ne Chiapas amber

136. *Neoliodes dominicus* Heethoff, Helfen & Norton, 2009 ..... Ne Dominican amber

137. *Neoliodes quadriscutatus* Sellnick, 1919 ..... Pa Baltic amber

Neoliodes sp. *in* Norton & Poinar (1993) [as *Liodes*] ..... Ne Dominican amber

***Platyliodes* Berlese, 1917** ..... **Cretaceous – Recent**

138. *Platyliodes ensigerus* (Sellnick, 1919) ..... Pa Baltic amber

139. *Platyliodes sellnicki* Arillo & Subías *in* Arillo *et al.*, 2016 ..... K Spanish amber

***Teleoliodes* author, date?** ..... **Neogene – Recent**

Teleoliodes sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

PLATEREMAEOIDEA Trägårdh, 1926 ..... **Cretaceous – Recent**

= GYMNODAMAEOIDEA Grandjean, 1954*a*

ALEURODAMAEIDAE Paschoal & Johnston, 1985 ..... **Recent**

no fossil record

GYMNODAMAEIDAE Grandjean, 1954*a* ..... **Paleogene – Recent**

***Gymnodamaeus* Kulczynski, 1902** ..... **Paleogene – Recent**

140. *Gymnodamaeus sepotisus* Sellnick, 1919 ..... Pa Baltic amber

IDIODAMAEIDAE Paschoal, 1987 ..... **Recent**

no fossil record

LICNOBELBIDAE Grandjean, 1965*a* ..... **Recent**

no fossil record

LICNODAMAEIDAE Grandjean, 1954*b* ..... **Recent**

= NACUNANSELLIDAE author, date

no fossil record

LYRIFISSIELLIDAE Paschoal, 1987 ..... **Recent**

no fossil record

PEDROCORTESELLIDAE Paschoal, 1987 ..... **Recent**

no fossil record

PHEROLIODIDAE Paschoal, 1987 ..... **Recent**

= HAMMERIELLIDAE Paschoal, 1987

= NOOLIODIDAE Paschoal, 1989d

no fossil record

PLATEREMAEIDAE Trägårdh, 1926 ..... **Cretaceous – Recent**

***Rasnitsynella* Krivoluckij, 1976** ..... **Cretaceous**

141. *Rasnitsynella punctulata* Krivoluckij, 1976 ..... K Taymir amber

DAMAEOIDEA Berlese, 1896 ..... **Paleogene – Recent**

DAMAEIDAE Berlese, 1896 ..... **Paleogene – Recent**

Damaeidae sp. *in* Aoki (1974) ..... Qt Mizunami copal

***Belba* von Heyden, 1826** ..... **Quaternary – Recent**

142. *Belba compta* (Kulczynski, 1902) **[Recent]** ..... Qt western Norway

143. *Belba cornyops* (Hermann, 1804)* **[Recent]** ..... Qt Finland

† ***Belbites* Pampaloni, 1902** ..... **Neogene**

144. *Belbites disodilis* Pampaloni, 1902* ..... Ne? Sicily

***Damaeobelba* Sellnick, 1928** ..... **Quaternary – Recent**

145. *Damaeobelba minutissima* (Sellnick, 1920) **[Recent]** ..... Qt Germany

***Damaeus* C. L. Koch, 1835** ..... **Paleogene – Recent**

146. *Damaeus auritus* C. L. Koch, 1835* **[Recent]** ..... Qt Finland

147. *Damaeus genadensis* Sellnick, 1931 ..... Pa Baltic amber

***Spatiodamaeus* Bulanova-Zachvatkina, 1967** ..... **Quaternary – Recent**

148. *Spatiodamaeus verticillipes* (Nicolet, 1855)* **[Recent]** ..... Qt Finland

CEPHEOIDEA Berlese, 1896 ..... **Cretaceous – Recent**

= EUTEGOIDEA Balogh, 1965

ANDEREMAEIDAE Balogh, 1972 ..... **Recent**

no fossil record

CEPHEIDAE Berlese, 1896 ..... **Cretaceous – Recent**

= COMPATOZETIDAE Luxton, 1988

***Cepheus* C. L. Koch, 1835** ..... **Paleogene – Recent**

149. *Cepheus cepheiformis* (Nicolet, 1855) **[Recent]** ..... Qt Finland

150. *Cepheus dentatus* (Michael, 1888) **[Recent]** ..... Qt Finland

151. *Cepheus implicatus* (Sellnick, 1919) ..... Pa Baltic amber

152. *Cepheus latus* C. L. Koch, 1835* **[Recent]** ..... Qt Finland

***Eupterotegaeus* Berlese, 1916** ..... **Cretaceous – Recent**

153. *Eupterotegaeus bitranslamellatus* Arillo & Subías, 2002 ..... K Álava amber

***Ommatocepheus* Berlese, 1913** ..... **Cretaceous – Recent**

154. *Ommatocepheus nortoni* Arillo, Subías & Shtanchaeva, 2008 ..... K Álava amber

CEROCEPHEIDAE Mahunka, 1986 ..... **Recent**

no fossil record

EUTEGAEIDAE Balogh, 1965 ..... **Recent**

= PTEROZETIDAE Luxton, 1988

no fossil record

MICROTEGEIDAE Balogh, 1972 ..... **Recent**

no fossil record

NODOCEPHEIDAE Piffl, 1972 ..... **Recent**

no fossil record

NOSYBEIDAE Mahunka, 1994 ..... **Recent**

no fossil record

PTEROBATIDAE Balogh & Balogh, 1992 ..... **Recent**

no fossil record

POLYPTEROZETOIDEA Grandjean, 1959 ..... **Recent**

PODOPTEROTEGAEIDAE Piffl, 1972 ..... **Recent**

no fossil record

POLYPTEROZETIDAE Grandjean, 1959 ..... **Recent**

no fossil record

TUMEROZETIDAE Hammer, 1966 ..... **Recent**

no fossil record

MICROZETOIDEA Grandjean, 1936*a* ..... **Neogene – Recent**

MICROZETIDAE Grandjean, 1936*a* ..... **Neogene – Recent**

***Amiracarus* Miko *in* Miko *et al*. (2013)** ..... **Neogene – Recent**

155. *Amiracarus pliocennatus* Miko *in* Miko *et al*. (2013) ..... Ne Slovenian Karst

156. *Amiracrus senensis* (Bernini, 1975) *in* Miko *et al*. (2013)* **[Recent]** ..... Qt Romanian caves

AMEROIDEA Bulanova-Zachvatkina, 1957 ..... **Palaeogene – Recent**

= AMEROBELBOIDEA Grandjean, 1954*b*

= CALEREMEIOIDEA Grandjean, 1965*c*

AMERIDAE Bulanova-Zachvatkina, 1957 ..... **Recent**

no fossil record

AMEROBELBIDAE Grandjean, 1961*b* ..... **Recent**

no fossil record

BASILOBELBIDAE Balogh, 1961 ..... **Recent**

no fossil record

CALEREMAEIDAE Grandjean, 1965*c* ..... **Palaeogene – Recent**

***Caleremaeus* Berlese, 1910** ..... **Palaeogene – Recent**

157. *Caleremaeus gleso* Sellnick, 1931 ..... Pa Baltic amber

CTENOBELBIDAE Grandjean, 1965*b* ..... **Recent**

no fossil record

DAMAEOLIDAE Grandjean, 1965*b* ..... **Recent**

no fossil record

EREMOBELBIDAE Balogh, 1961 ..... **Recent**

no fossil record

EREMULIDAE Grandjean, 1965*b* ..... **Recent**

no fossil record

HETEROBELBIDAE Balogh, 1961 ..... **Recent**

no fossil record

HUNGAROBELBIDAE Miko & Travé, 1996..... **Recent**

no fossil record

STAUROBATIDAE Grandjean, 1966 ..... **Recent**

no fossil record

ZETORCHESTOIDEA Michael, 1898 ..... **Cretaceous – Recent**

= EREMAEOIDEA Oudeman, 1900

= NIPHOCEPHOIDEA Travé, 1959 [a separate superfamily in some studies]

† **ARCHAEORCHESTIDAE Arillo & Subías, 2000** ..... **Cretaceous**

† ***Plategeocranus* Sellnick, 1919** ..... **Palaeogene**

158. *Plategeocranus sulcatus* (Karsch, 1884)* ..... Pa Baltic amber

† ***Strieremaeus* Sellnick, 1919** ..... **Cretaceous – Recent**

= † *Archaeorchestes* Arillo & Subías, 2000

159. *Strieremaeus illibatus* Sellnick, 1919 ..... Pa Baltic amber

160. *Strieremaeus minguezae* (Arillo & Subías, 2000) ..... K Álava amber

EREMAEIDAE Oudemans, 1900 ..... **Paleogene – Recent**

***Eremaeus* C. L. Koch, 1836** ..... **Paleogene – Recent**

161. *Eremaeus hepaticus* C. L. Koch, 1835* **[Recent]** ..... Qt Germany

162. *Eremaeus oblongus* **[Recent]** *fossilis* Sellnick, 1919 ..... Pa Baltic amber

***Eueremaeus* Mihelcic, 1963** ..... **Quaternary – Recent**

163. *Eueremaeus silvestris* (Forsslund, 1956) **[Recent]** ..... Qt Finland

† ***Gradidorsum* Sellnick, 1919** ..... **Palaeogene – Recent**

164. *Gradidorsum asper* Sellnick, 1919* ..... Pa Baltic amber

MEGEREMAEIDAE Woolley & Higgins, 1968 ..... **Cretaceous – Recent**

***Megeremaeus* Higgins & Wooley 1965** ..... **Cretaceous – Recent**

165. *Megeremaeus cretaceous* Sidorchuk & Behan-Pelletier, 2017 ..... K Canadian amber

NIPHOCEPHEIDAE Travé, 1959 ..... **Recent**

no fossil record

ZETORCHESTIDAE Michael, 1898 ..... **Palaeogene – Recent**

***Zetorchestes* Berlese, 1888** ..... **Palaeogene – Recent**

Zetorchestes spp.*in* Sidorchuk & Norton (2011) ..... Pa Rovno amber

GUSTAVIOIDEA Oudemans, 1900 ..... **Jurassic – Recent**

= LIACAROIDEA Sellnick, 1928

ASTEGISTIDAE Balogh, 1961 ..... **Jurassic – Recent**

***Astegistes* Hull, 1916** ..... **Quaternary – Recent**

166. *Astegistes pilosus* (C. L. Koch, 1840) **[Recent]** ..... Qt Karelia, Russia

***Cultroribula* Berlese, 1908** ..... **Jurassic – Recent**

167. *Cultroribula jurassica* Krivolutsky *in* Krivolutsky & Krasilov, 1977 ..... J Russian far east

168. *Cultroribula lauta* Sellnick, 1931 ..... Pa Baltic amber

169. *Cultroribula superba* Sellnick, 1931 ..... Pa Baltic amber

GUSTAVIIDAE Oudemans, 1900 ..... **Quaternary – Recent**

***Gustavia* Kramer, 1879** ..... **Quaternary – Recent**

170. *Gustavia microcephala* (Nicolet, 1855) **[Recent]** ..... Qt Finland

KODIAKELLIDAE Hammer, 1967 ..... **Recent**

no fossil record

LIACARIDAE Sellnick, 1928 ..... **Quaternary – Recent**

= XENILLIDAE Woolley & Higgins, 1966

***Adoristes* Hull, 1916** ..... **Quaternary – Recent**

171. *Adoristes ovatus* (C. L. Koch, 1839)* **[Recent]** ..... Qt northern Europe

***Liacarus* Michael, 1898** ..... **Quaternary – Recent**

172. *Liacarus coracinus* (C. L. Koch, 1841) **[Recent]** ..... Qt Finland

***Xenillus* Robineau-Desvoidy, 1839** ..... **Paleogene – Recent**

173. *Xenillus tegeocraniformis* (Sellnick, 1919) ..... Pa Baltic amber

MULTORIBULIDAE Balogh, 1972 ..... **Recent**

no fossil record

PELOPPIIDAE Balogh, 1943 ..... **Paleogene – Recent**

***Ceratoppia* Berlese, 1908** ..... **Paleogene – Recent**

174. *Ceratoppia bipilis fossilis* Sellnick, 1919 ..... Pa Baltic amber

i. = *Oribates politus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

175. *Ceratoppia quadridentata* (Haller, 1882) **[Recent]** ..... Qt Finland

TENUIALIDAE Jacot, 1929 ..... **Quaternary – Recent**

***Hafenrefferia* Oudemans, 1906** ..... **Quaternary – Recent**

176. *Hafenrefferia gilvipes* (C. L. Koch, 1839)* **[Recent]** ..... Qt Finland

CARABODOIDEA C. L. Koch, 1843*b* ..... **Cretaceous – Recent**

= OCTOCEPHOIDEA Balogh, 1961

CARABOCEPHEIDAE Mahunka, 1986 ..... **Recent**

no fossil record

CARABODIDAE C. L. Koch, 1843*b* ..... **Palaeogene – Recent**

***Carabodes* C. L. Koch, 1835** ..... **Palaeogene – Recent**

177. *Carabodes areolatus* Berlese, 1916 **[Recent]** ..... Qt Karelia, Russia
178. *Carabodes coriaceus* C. L. Koch, 1835* **[Recent]** ..... Qt Finland
179. *Carabodes coriaceus* **[Recent]** *fossilis* Sellnick, 1931 ..... Pa Baltic amber
180. *Carabodes dissonus* Sellnick, 1931 ..... Pa Baltic amber
181. *Carabodes gerberi* Sellnick, 1931 ..... Pa Baltic amber
182. *Carabodes laybrinthicus* (Michael, 1879) **[Recent]** ..... Qt Europe
183. *Carabodes labyrinthicus* **[Recent]** *fossilis* Sellnick, 1931 ..... Pa Baltic amber
184. *Carabodes marginatus* (Michael, 1884) **[Recent]** ..... Qt Finland
185. *Carabodes minusculus* Berlese, 1923 **[Recent]** ..... Qt Germany
186. *Carabodes ornatus* Storkan, 1925 **[Recent]** ..... Qt Finland
187. *Carabodes subarcticus* Trägardh, 1902 **[Recent]** ..... Qt Finland
188. *Carabodes willmanni* Bernini, 1975 **[Recent]** ..... Qt western Norway

?*Carabodes* sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

† ***Carabodites* Pampaloni, 1902** ..... **Neogene?**

189. *Carabodites pavesii* Pampaloni, 1902* ..... Ne? Sicily

***Odontocepheus* Berlese, 1913** ..... **Quaternary – Recent**

190. *Odontocepheus elongatus* (Michael, 1879)* **[Recent]** ..... Qt Finland

DAMPFIELLIDAE Balogh, 1961 ..... **Recent**

no fossil record

HEXOPPIIDAE Balogh, 1983 ..... **Recent**

no fossil record

LUXTONIIDAE Mahunka, 2001 ..... **Recent**

no fossil record

NIPPOBODIDAE Aoki, 1959 ..... **Recent**

no fossil record

OTOCEPHEIDAE Balogh, 1961 ..... **Cretaceous – Recent**

† *Cretaceobodes* Arillo, Subías & Shtanchaeva, 2010 ..... **Cretaceous – Recent**

191. *Cretaceobodes martinezae* Arillo, Subías & Shtanchaeva, 2010 ..... K San Just amber

***Dolicheremaeus* Jacot, 1938** ..... **Neogene – Recent**

Dolicheremaeus sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

Otocepheus **Berlese, 1905** ..... **Paleogene – Recent**

192. *Otocepheus niger* Sellnick, 1931 ..... Pa Baltic amber

193. *Otocepheus praesignis* Sellnick, 1931 ..... Pa Baltic amber

TOKUNOCEPHEIDAE Aoki, 1966*a* ..... **Recent**

no fossil record

OPPIOIDEA Grandjean, 1951 ..... **Palaeogene – Recent**

= EREMELLOIDEA Balogh, 1961 [in part]

= TRIZETOIDEA Ewing, 1917 [in part]

AUTOGNETIDAE Grandjean, 1960*b* ..... **Quaternary – Recent**

Conchogneta **Grandjean, 1963** ..... **Quaternary – Recent**

194. *Conchogneta traegardhi* (Forsslund, 1947) **[Recent]** ..... Qt Finland

ARCEREMAEIDAE Balogh, 1972 ..... **Recent**

no fossil record

BORHIDIIDAE Balogh, 1983 ..... **Recent**

no fossil record

CHAVINIIDAE Balogh, 1983 ..... **Recent**

no fossil record

ENANTIOPPIIDAE Balogh, 1983 ..... **Recent**

no fossil record

EPIMERELLIDAE Ayyildiz & Luxton, 1989 ..... **Recent**

no fossil record

GRANULOPPIIDAE Balogh, 1983 ..... **Recent**

no fossil record

MACHADOBELBIDAE Balogh, 1972 ..... **Recent**

no fossil record

MACHUELLIDAE Balogh, 1893 ..... **Recent**

no fossil record

NOSYBELBIDAE Mahunka, 1994 ..... **Recent**

no fossil record

OPPIIDAE Grandjean, 1951 ..... **Palaeogene – Recent**

Dissorhina **Hull, 1916** ..... **Neogene – Recent**

195. *Dissorhina nuda* Miko, 2015 ..... Ne Slovenian Karst
196. *Dissorhina ornata* (Oudemans, 1900)* **[Recent]** ..... Qt Germany
197. *Dissorhina paleokrasica* Miko, 2015 ..... Ne Slovenian Karst

***Oppia* C. L. Koch, 1836** ..... **Palaeogene – Recent**

198. *Oppia angustum* (Sellnick, 1931) ..... Pa Baltic amber
199. *Oppia cervicornu* (Sellnick, 1919) ..... Pa Baltic amber
200. *Oppites hurdi* Woolley, 1971 ..... Ne Chiapas amber
201. *Oppia longilamellata* **[Recent]** *fossilis* (Sellnick, 1931) ..... Pa Baltic amber
202. *Oppia medium* (Sellnick, 1931) ..... Pa Baltic amber
203. *Oppia mexicana* (Woolley, 1971) ..... Ne Chiapas amber
204. *Oppia setigera* (Woolley, 1971) ..... Ne Chiapas amber
205. *Oppia sucinum* (Sellnick, 1931) ..... Pa Baltic amber

?*Oppia* sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

***Oppiella* Jacot, 1937** ..... **Quaternary – Recent**

206. *Oppiella nova* (Oudemans, 1902)* **[Recent]** ..... Qt northern Europe
207. *Oppiella ornata* (Oudemans, 1900) **[Recent]** ..... Qt western Norway
208. *Oppiella splendens* (C. L. Koch, 1841) **[Recent]** ..... Qt western Norway
209. *Oppiella subpectinata* (Oudemans, 1900) **[Recent]** ..... Qt northern Europe
210. *Oppiella translamellata* (Willmann, 1923) **[Recent]** ..... Qt northern Europe

† ***Oppites* Pampaloni, 1902** ..... **Neogene**

211. *Oppites melilli* Pampaloni, 1902* ..... Ne? Sicily

† ***Praoppiella* Miko & Mourek *in* Miko *et al*., 2012** ..... **Quaternary**

212. *Praoppiella oanae* Miko & Mourek *in* Miko *et al*., 2012* ..... Qt Slovenian Karst

***Ramusella* Hammer, 1962** ..... **Quaternary – Recent**

213. *Ramusella clavipectinata* (Michael, 1885) **[Recent]** ..... Qt Germany

† ***Rhinoppioides* Miko *in* Miko *et al*., 2012** ..... **Quaternary**

214. *Rhinoppioides quadrituberculatus* Miko *in* Miko *et al*., 2012* ..... Qt Slovenian Karst

OXYAMERIDAE Aoki, 1965 ..... **Recent**

no fossil record

PAPILLONOTIDAE Balogh, 1983 ..... **Recent**

no fossil record

PLATYAMERIDAE Balogh & Balogh, 1983 ..... **Recent**

no fossil record

QUADROPPIIDAE Balogh, 1983 ..... **Recent**

no fossil record

RHYNCHORIBATIDAE Balogh, 1961 ..... **Recent**

no fossil record

SPINOZETIDAE Balogh, 1972 ..... **Recent**

no fossil record

STERNOPPIIDAE Balogh & Mahunka, 1969 ..... **Recent**

no fossil record

SUCTOBELBIDAE Jacot, 1938 ..... **Palaeogene – Recent**

***Suctobelbella* Jacot, 1937** ..... **Palaeogene – Recent**

215. *Suctobelbella falcata* (Forsslund, 1941) **[Recent]** ..... Qt Germany

216. *Suctobelbella latirostris* (Strenzke, 1950) **[Recent]** ..... Qt Germany

217. *Suctobelbella longirostris* (Forsslund, 1941) **[Recent]** ..... Qt western Norway

218. *Suctobelbella sarekensis* (Forsslund, 1941) **[Recent]** ..... Qt Europe

219. *Suctobelbella similis* (Forsslund, 1941) **[Recent]** ..... Qt Germany

220. *Suctobelbella subcornigera* (Forsslund, 1941) **[Recent]** ..... Qt Germany

221. *Suctobelbella subtrigona* (Oudemans, 1916) **[Recent]** ..... Qt Europe

222. *Suctobelbella subtrigona* **[Recent]** *fossilis* (Sellnick, 1931) ..... Pa Baltic amber

TERATOPPIIDAE Balogh, 1983 ..... **Recent**

no fossil record

TETRACONDYLIDAE Aoki, 1961 ..... **Recent**

no fossil record

THYRISOMIDAE Grandjean, 1954*b* ..... **Quaternary – Recent**

***Banksinoma* Oudemans, 1930** ..... **Quaternary – Recent**

223. *Banksinoma lanceolata* (Michael, 1885)* **[Recent]** ..... Qt Europe

***Oribella* Berlese, 1908** ..... **Quaternary – Recent**

224. *Oribella dentata* Sidorchuk, 2004 ..... Qt Arkhangel'sk oblast

TRIZETIDAE Ewing, 1917 ..... **Recent**

no fossil record

TUPAREZETIDAE Balogh, 1972 ..... **Recent**

no fossil record

TECTOCEPHEOIDEA Grandjean, 1954*b* ..... **Paleogene – Recent**

TECTOCEPHEIDAE Oudemans, 1900 ..... **Paleogene – Recent**

***Tectocepheus* Berlese, 1895** ..... **Paleogene – Recent**

225. *Tectocepheus minor* Berlese, 1903 **[Recent]** ..... Qt western Norway

226. *Tectocepheus similis* Sellnick, 1931 ..... Pa Baltic amber

227. *Tectocepheus velatus* (Michael, 1880)* **[Recent]** ..... Qt northern Europe

HYDROZETOIDEA Grandjean, 1954*b* ..... **Jurassic – Recent**

HYDROZETIDAE Grandjean, 1954*b* ..... **Jurassic – Recent**

***Hydrozetes* Berlese, 1902** ..... **Jurassic – Recent**

228. *Hydrozetes confervae* (Schrank, 1791) **[Recent]** ..... Qt western Norway

229. *Hydrozetes lacustris* (Michael, 1882)* **[Recent]** ..... Qt northern Europe

230. *Hydrozetes oryktosis* Woolley, 1969 ..... Qt Michigan

Hydrozetes sp. *in* Sivhed & Wallwork (1978) ..... J Sweden

LIMNOZETIDAE Thor, 1937 ..... **Quaternary – Recent**

***Limnozetes* Hull, 1916** ..... **Quaternary – Recent**

231. *Limnozetes ciliatus* (Schrank, 1803)* **[Recent]** ..... Qt northern Europe

232. *Limnozetes rugosus* (Sellnick, 1923) **[Recent]** ..... Qt northern Europe

AMERONOTHROIDEA Willmann, 1931 ..... **Quaternary – Recent**

AMERONOTHRIDAE Willmann, 1931 ..... **Quaternary – Recent**

***Ameronothrus* Berlese, 1896** ..... **Quaternary – Recent**

233. *Ameronothrus lineatus* (Thorell, 1871)* **[Recent]** ..... Qt Europe / Greenland

234. *Ameronothrus maculatus* (Michael, 1882) **[Recent]** ..... Qt western Norway

† ***Palaeonothrus* Krivolutskii & Sidorchuk, 2003** ..... **Quaternary**

235. *Palaeonothrus polytrichus* Krivolutskii & Sidorchuk, 2003* ..... Qt Arkhangel'sk Oblast

236. *Palaeonothrus rotundatus* Krivolutskii & Sidorchuk, 2003 ..... Qt Arkhangel'sk Oblast

FORTUYNIIDAE van der Hammen, 1963 ..... **Recent**

no fossil record

SELENORIBATIDAE Schuster, 1963 ..... **Recent**

no fossil record

TEGEOCRANELLIDAE Balogh, 1987 ..... **Recent**

no fossil record

CYMBAEREMAEOIDEA Sellnick, 1928 ..... **Jurassic – Recent**

CYMBAEREMAEIDAE Sellnick, 1928 ..... **Jurassic – Recent**

= AMETROPROCTIDAE Subías, 2004

= SCAPHEREMAEIDAE Subías, 2004

***Ametroproctus* Higgins & Woolley, 1968** ..... **Cretaceous – Recent**

237. *Ametroproctus valeriae* Arillo, Subías & Shtanchaeva, 2009 ..... K San Just amber

***Cymbaeremaeus* Berlese, 1896** ..... **Paleogene – Recent**

238. *Cymbaeremaeus cymba* (Nicolet, 1855)* **[Recent]** ..... Qt northern Europe

† ***Jureremus* Krivolutsky *in* Krivolutsky & Krasilov, 1977** ..... **Jurassic**

239. *Jureremeus foveolatus* Krivolutsky *in* Krivolutsky & Krasilov, 1977* ..... J Russian far east

240. *Jureremeus phippsi* Selden, Baker & Phipps, 2008 ..... J Yorkshire, UK

***Scapheremaeus* Berlese, 1910** ..... **Paleogene – Recent**

241. *Scapheremaeus undosus* Sellnick, 1919 ..... Pa Baltic amber

† ***Tectocymba* Sellnick, 1919** ..... **Paleogene – Recent**

242. *Tectocymba rara* Sellnick, 1919* ..... Pa Baltic amber

EREMAEOZETOIDEA Piffl, 1972 ..... **Paleogene – Recent**

= IDIOZETOIDEA Aoki, 1976

EREMAEOZETIDAE Piffl, 1972 ..... **Paleogene – Recent**

***Eremaeozetes* Berlese, 1913** ..... **Paleogene – Recent**

= † *Scutoribates* Sellnick, 1919

Eremaeozetes sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

IDIOZETIDAE Aoki, 1976 ..... **Recent**

no fossil record

LICNEREMAEOIDEA Grandjean, 1931 ..... **Jurassic – Recent**

= CHARASSOBATOIDEA Grandjean, 1958*b*

ADHAESOZETIDAE Hammer, 1973 ..... **Recent**

no fossil record

CHARASSOBATIDAE Grandjean, 1958*b* ..... **Recent**

no fossil record

DENDEROEREMAEIDAE Behan-Pelletier, Eamer & Clavton, 2005 ..... **Recent**

no fossil record

EREMELLIDAE Balogh, 1961 ..... **Recent**

no fossil record

LAMELLAREIDAE Balogh, 1972 ..... **Cretaceous – Recent**

***Tenuelamellarea* Subías & Iturrondobeitia, 1978** ..... **Cretaceous – Recent**

243. *Tenuelamellarea estefaniae* Arillo & Subías *in* Arillo *et al.*, 2016 ..... K Spanish amber

LICNEREMAEIDAE Grandjean, 1931 ..... **Palaeogene – Recent**

***Licneremaeus* Paoli, 1908** ..... **Palaeogene – Recent**

244. *Licneremaeus fritschi* Sellnick, 1931 ..... Pa Baltic amber

245. *Licneremaeus licnophorus* (Michael, 1882) **[Recent]** ..... Qt Germany

MICREREMIDAE Grandjean, 1954*b* ..... **Jurassic – Recent**

Micreremus* Grandjean, 1954*b .....[not Berlese 1908?]..... **Paleogene – Recent**

246. *Micreremus brevipes* (Michael, 1888)* **[Recent]** ..... Qt northern Europe

247. *Micreremus reticulatus* Sellnick, 1931 ..... Pa Baltic amber

248. *Micreremus scrobiculatus* Sellnick, 1931 ..... Pa Baltic amber

PASSALOZETIDAE Grandjean, 1954*b* ..... **Quaternary – Recent**

Passalozetes* Grandjean, 1932*a ..... **Quaternary – Recent**

249. *Passalozetes africanus* Grandjean, 1932*a* **[Recent]** ..... Qt Finland

SCUTOVERTICIDAE Grandjean, 1954*b* ..... **Cretaceous – Recent**

***Arthrovertex* Balogh, 1970** ..... **Neogene – Recent**

250. *Arthrovertex hurdi* (Woolley, 1971) ..... Ne Chiapas amber

Arthrovertex sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

***Hypovertex* Krivolutsky, 1969** ..... **Cretaceous – Recent**

251. *Hypovertex hispanicus* Arillo & Subías *in* Arillo *et al.*, 2016 ..... K Spanish amber

***Scutovertex* Michael, 1879** ..... **Quaternary – Recent**

252. *Scutovertex minutus* (C. L. Koch, 1835) **[Recent]** ..... Qt Germany

PHENOPELOPOIDEA Petrunkevitch, 1955*a* ..... **Palaeogene – Recent**

PHENOPELOPIDAE Petrunkevitch, 1955*a* ..... **Palaeogene – Recent**

= PELOPIDAE author, date?

Eupelops* Ewing, 1917*a ..... **Palaeogene – Recent**

253. *Eupelops acromios* (Hermann, 1804) **[Recent]** ..... Qt Finland

254. *Eupelops curtipilus* (Berlese, 1916) **[Recent]** ..... Qt Germany

255. *Eupelops occultus* (C. L. Koch, 1835) **[Recent]** ..... Qt Kerelia, Russia

256. *Eupelops plicatus* (C. L. Koch, 1835) **[Recent]** ..... Qt northern Europe

257. *Eupelops punctulatus* (Sellnick, 1931) ..... Pa Baltic amber

258. *Eupelops uraceus* (C. L. Koch, 1839)* **[Recent]** ..... Qt Kerelia, Russia

Eupelops sp. *in* Karppinen & Koponen (1974) ..... Qt Finland

***Peloptulus* Berlese, 1908** ..... **Quaternary – Recent**

259. *Peloptulus phaenotus* (C. L. Koch, 1844)* **[Recent]** ..... Qt Germany

UNDULORIBATIDAE Kunst, 1971 ..... **Palaeogene – Recent**

***Scutoribates* Sellnick, 1918** ..... **Palaeogene – Recent**

260. *Scutoribates perornatus* Sellnick, 1918 ..... Pa Baltic amber

***Unduloribates* Balogh, 1943** ..... **?Palaeogene – Recent**

261. *Unduloribates parvus* (Sellnick, 1931) ..... Pa Baltic amber

generic affinities need clarification

ACHIPTERIOIDEA Thor, 1929 ..... **?Jurassic – Recent**

ACHIPTERIIDAE Thor, 1929 ..... **?Jurassic – Recent**

***Achipteria* Berlese, 1885** ..... **?Jurassic – Recent**

262. *Achipteria coleoptrata* (Linnaeus, 1757) **[Recent]** ..... Qt Finland / Greenland

263. ?*Achipteria obscura* Krivolutsky *in* Krivolutsky & Krasilov, 1977 ..... J Russian far east

[An *incertae sedis* taxon?]

***Parachipteria* van der Hammen, 1952** ..... **Quaternary – Recent**

264. *Parachipteria punctata* (Nicolet, 1855) **[Recent]** ..... Qt northern Europe

265. *Parachipteria willmanni* van der Hammen, 1952 **[Recent]** ..... Qt Germany

EPACTOZETIDAE Grandjean, 1936*b* ..... **Recent**

no fossil record

TEGORIBATIDAE Grandjean, 1954*b* ..... **Quaternary – Recent**

***Tegoribates* Ewing, 1917a** ..... **Quaternary – Recent**

266. *Tegoribates latirostris* (C. L. Koch, 1844) **[Recent]** ..... Qt Finland

ORIBATELLOIDEA Jacot, 1925 ..... **Palaeogene – Recent**

ORIBATELLIDAE Jacot, 1925 ..... **Palaeogene – Recent**

***Oribatella* Banks, 1895** ..... **Palaeogene – Recent**

267. *Oribatella berlesei* (Michael, 1898) **[Recent]** ..... Qt Finland

268. *Oribatella calcarata* (C. L. Koch, 1835) **[Recent]** ..... Qt Kerelia, Russia

269. *Oribatella mirabilis* Sellnick, 1931 ..... Pa Baltic amber

ORIPODOIDEA Jacot, 1925 ..... **Palaeogene – Recent**

CALOPPIIDAE Balogh, 1960 ..... **Recent**

= ?CRASSORIBATULIDAE author, date?

no fossil record

CAMPBELLOBATIDAE J. Balogh & P. Balogh, 1984 ..... **Recent**

no fossil record

CHAUNOPROCTIDAE Balogh, 1961 ..... **Recent**

no fossil record

DRYMOBATIDAE J. Balogh & P. Balogh, 1984 ..... **Recent**

no fossil record

HAPLOZETIDAE Grandjean, 1936*c* ..... **Palaeogene – Recent**

= PROTORIBATIDAE J. Balogh & P. Balogh, 1984

= XLOBATIDAE J. Balogh & P. Balogh, 1984

***Protoribates* Berlese, 1908** ..... **Palaeogene – Recent**

270. *Protoribates longipilis* Sellnick, 1931 ..... Pa Baltic amber

LAMELLAREIDAE Balogh, 1972 ..... **Recent**

no fossil record

MAUDHEIMIIDAE J. Balogh & P. Balogh, 1984 ..... **Recent**

no fossil record

MOCHLOZETIDAE Grandjean, 1960*a* ..... **Neogene – Recent**

Mochlozetidae sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

***Mochloribatula* Mahunka, 1978** ..... **Neogene – Recent**

271. *Mochloribatula smithi* (Woolley, 1971) ..... Ne Chiapas amber

***Mochlozetes* Grandjean, 1930** ..... **Neogene – Recent**

Mochlozetes sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

NASOBATIDAE Balogh, 1972 ..... **Recent**

no fossil record

NEOTRICHOZETIDAE Balogh, 1965 ..... **Recent**

no fossil record

NESOZETIDAE J. Balogh & P. Balogh, 1984 ..... **Recent**

no fossil record

ORIBATULIDAE Thor, 1929 ..... **Palaeogene – Recent**

Oribatulidae sp. *in* Aoki (1974) ..... Qt Mizunami copal

***Lucoppia* Berlese, 1908** ..... **Palaeogene – Recent**

272. *Lucoppia simplex* Sellnick, 1931 ..... Pa Baltic amber

***Oribatula* Berlese, 1895** ..... **Quaternary – Recent**

273. *Oribatula tibialis* (Nicolet, 1855)* **[Recent]** ..... Qt Europe

***Phauloppia* Berlese, 1908** ..... **Palaeogene – Recent**

274. *Phauloppia lucorum* (C. L. Koch, 1841) **[Recent]** ..... Qt northern Europe

275. *Phauloppia pellucida* (Sellnick, 1931) ..... Pa Baltic amber

† ***Sachalinbates* Arillo, Subías & Shtanchaeva, 20112** [replacement name] ..... **Palaeogene – Recent**

= † *Sachalinella* Rjabinin *in* Krivolutzkii & Rjabinin, 1976 [preoccupied]

276. *Sachalinbates zherichini* (Rjabinin *in* Krivolutzkii & Rjabinin, 1976)* ..... Pa Sachalin amber

***Zygoribatula* Berlese, 1916** ..... **Quaternary – Recent**

277. *Zygoribatula exilis* (Nicolet, 1855) **[Recent]** ..... Qt northern Europe

ORIPODIDAE Jacot, 1925 ..... **Palaeogene – Recent**

= BIROBATIDAE J. Balogh & P. Balogh, 1984

***Benoibates* Balogh, 1958** ..... **Neogene – Recent**

278. *Benoibates chiapasensis* (Woolley, 1971) ..... Ne Chiapas amber

***Oripoda* Banks, 1904** ..... **Palaeogene – Recent**

279. *Oripoda baltica* Sellnick, 1931 ..... Pa Baltic amber

Oripoda sp. *in* Norton & Poinar (1993) ..... Ne Dominican amber

***Parapirnodus* Balogh & Mahunka, 1968** ..... **Neogene – Recent**

280. *Parapirnodus denaius* (Woolley, 1971) ..... Ne Chiapas amber

PARAKALUMMIDAE Grandjean, 1936*b* ..... **Palaeogene – Recent**

***Neoribates* Berlese, 1914** ..... **Palaeogene – Recent**

281. *Neoribates borussicus* Sellnick, 1931 ..... Pa Baltic amber

SCHELORIBATIDAE Grandjean, 1933 ..... **Palaeogene – Recent**

† ***Alexebates* Krivolutskii & Sidorchuk, 2003** ..... **Quaternary – Recent**

282. *Alexebates vychegodus* Krivolutskii & Sidorchuk, 2003 ..... Qt Arkhangel'sk Oblast

***Liebstadia* Oudemans, 1906** ..... **Palaeogene – Recent**

283. *Liebstadia similiformis* Sellnick, 1931 ..... Pa Baltic amber

284. *Liebstadia similis* (Michael, 1888)* **[Recent]** ..... Qt Europe / Greenland

***Scheloribates* Berlese, 1908** ..... **Palaeogene – Recent**

285. *Scheloribates apertus* Sellnick, 1931 ..... Pa Baltic amber

286. *Scheloribates areatus* Sellnick, 1931 ..... Pa Baltic amber

287. *Scheloribates durhami* (Woolley, 1971) ..... Ne Chiapas amber

288. *Scheloribates initialis* (Berlese, 1908) **[Recent]** ..... Qt Europe

289. *Scheloribates laevigatus* (C. L. Koch, 1835) **[Recent]** ..... Qt northern Europe

290. *Scheloribates latipes* (C. L. Koch, 1844) **[Recent]** ..... Qt Europe

291. *Scheloribates pallidulus* (C. L. Koch, 1841) **[Recent]** ..... Qt Germany

292. *Scheloribates setatus* Sellnick, 1931 ..... Pa Baltic amber

SELLNICKIIDAE Balogh & Balogh, 1984 ..... **Recent**

no fossil record

STELECHOBATIDAE Grandjean, 1965*b* ..... **Recent**

no fossil record

SYMBIORIBATIDAE Aoki, 1966*b* ..... **Recent**

no fossil record

TUBULOZETIDAE Balogh, 1989 ..... **Quaternary – Recent**

***Grandjeanobates* Ramsay, 1967** ..... **Quaternary – Recent**

?*Grandjeanobates* sp. ..... Qt New Zealand

ZETOMOTRICHIDAE Grandjean, 1954*b* ..... **Paleogene – Recent**

Zetomotrichidae sp. *in* Sidorchuk & Norton (2011) ..... P Baltic amber

CERATOZETOIDEA Jacot, 1925 ..... **Paleogene – Recent**

CERATOKALUMMIDAE Balogh, 1970 ..... **Recent**

no fossil record

CERATOZETIDAE Jacot, 1925 ..... **Paleogene – Recent**

***Ceratozetes* Berlese, 1908** ..... **Quaternary – Recent**

293. *Ceratozetes gracilis* (Michael, 1884)* **[Recent]** ..... Qt Finland

294. *Ceratozetes minimus* Sellnick, 1928 **[Recent]** ..... Qt Germany

295. *Ceratozetes parvulus* Sellnick, 1922 **[Recent]** ..... Qt Germany

Diapterobates* Grandjean, 1936*b ..... **Quaternary – Recent**

296. *Diapterobates notatus* (Thorell, 1871) **[Recent]** ..... Qt Europe / Greenland

***Edwardzetes* Berlese, 1914** ..... **Quaternary – Recent**

297. *Edwardzetes edwardsi* (Nicolet, 1855)* **[Recent]** ..... Qt western Norway

***Fuscozetes* Sellnick, 1928** ..... **Quaternary – Recent**

298. *Fuscozetes fuscipes* (C. L. Koch, 1844)* **[Recent]** ..... Qt western Norway

***Melanozetes* Hull, 1916** ..... **Paleogene – Recent**

299. *Melanozetes foderatus* Sellnick, 1931 ..... Pa Baltic amber

300. *Melanozetes mollicomus* **[Recent]** *fossilis* Sellnick, 1931 ..... Pa Baltic amber

301. *Melanozetes meridianus* Sellnick, 1928 **[Recent]** ..... Qt Greenland

Melanozetes sp. *in* Karppinen *et al*. (1979) ..... Qt Karelia, Russia

***Oromucia* Thor, 1930** ..... **Quaternary – Recent**

302. *Oromucia bicuspidata* Thor, 1930* **[Recent]** ..... Qt western Norway

303. *Oromucia lucens* (C. L. Koch, date?) **[Recent]** ..... Qt Greenland

***Sphaerozetes* Berlese, 1885** ..... **Paleogene – Recent**

304. *Sphaerozetes convexulus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

305. *Sphaerozetes pirifomis* (Nicolet, 1855) **[Recent]** ..... Qt Finland

306. *Sphaerozetes primus* Sellnick, 1931 ..... Pa Baltic amber

***Trichoribates* Berlese, 1910** ..... **Quaternary – Recent**

307. *Trichoribates biarea* Gjelstrup & Solhøy, 1994 **[Recent]** ..... Qt western Norway

308. *Trichoribates incisellus* (Kramer, 1897) **[Recent]** ..... Qt Europe

309. *Trichoribates monticola* (Trägardh, 1902) **[Recent]** ..... Qt western Norway

310. *Trichoribates setiger* (Trägardh, 1910) **[Recent]** ..... Qt western Norway

311. *Trichoribates trimaculatus* (C. L. Koch, 1835)* **[Recent]** ..... Qt northern Europe

CHAMOBATIDAE Thor, 1937 ..... **Paleogene – Recent**

***Chamobates* Hull, 1916** ..... **Paleogene – Recent**

312. *Chamobates borealis* (Trägardh, 1902) **[Recent]** ..... Qt western Norway

313. *Chamobates cuspidatus* (Michael, 1884) **[Recent]** ..... Qt Finland

314. *Chamobates difficilis* Sellnick, 1931 ..... Pa Baltic amber

EUZETIDAE Grandjean, 1954*b* ..... **Quaternary – Recent**

***Euzetes* Berlese, 1908** ..... **Quaternary – Recent**

315. *Euzetes globulus* (Nicolet, 1855) **[Recent]** ..... Qt Finland

HUMEROBATIDAE Grandjean, 1970 ..... **Recent**

no fossil record

MYCOBATIDAE Grandjean, 1954*b* ..... **Quaternary – Recent**

***Mycobates* Hull, 1916** ..... **Quaternary – Recent**

316. *Mycobates consimilis* Hammer, 1952 **[Recent]** ..... Qt Greenland

317. *Mycobates parmeliae* (Michael, 1884) **[Recent]** ..... Qt Karelia, Russia

318. *Mycobates sarekenis* (Trägårdh, 1910) **[Recent]** ..... Qt western Norway

***Punctoribates* Berlese, 1908** ..... **Quaternary – Recent**

319. *Punctoribates punctum* (C. L. Koch, 1839) **[Recent]** ..... Qt Karelia, Russia

320. *Punctoribates sellnicki* Willmann, 1928 **[Recent]** ..... Qt Europe

Punctoribates sp. *in* Karppinen & Koponen (1973) ..... Qt Finland

ONYCHOBATIDAE Luxton, 1985 ..... **Recent**

no fossil record

RAMSAYELLIDAE Luxton, 1985 ..... **Recent**

no fossil record

ZETOMIMIDAE Shaldybina, 1966 ..... **Quaternary – Recent**

***Zetomimus* author, date?** ..... **Quaternary – Recent**

321. *Zetomimus furcatus* (Pearce & Warburton, 1906)* **[Recent]** ..... Qt Karelia, Russia

GALUMNOIDEA Jacot, 1925 ..... **Palaeogene – Recent**

GALUMNELLIDAE Piffl, 1970 ..... **Quaternary – Recent**

***Galumnella* Berlese, 1917** ..... **Quaternary – Recent**

Galumnella sp. *in* Aoki (1974) ..... Qt Mizunami copal

GALUMNIDAE Jacot, 1925 ..... **Palaeogene – Recent**

Galumnidae spp. *in* Norton & Poinar (1993) ..... Pa Baltic amber

Acrogalumna* Grandjean, 1956*b ..... **Quaternary – Recent**

322. *Acrogalumna longipluma* (Berlese, 1904)* **[Recent]** ..... Qt Karelia, Russia

***Galumna* von Heyden, 1826** ..... **Palaeogene – Recent**

323. *Galumna clavata* Sellnick, 1931 ..... Pa Baltic amber

324. *Galumna diversa* Sellnick, 1931 ..... Pa Baltic amber

325. *Galumna lanceata* (Oudemanns, 1900) **[Recent]** ..... Qt Karelia, Russia

326. *Galumna obvia* (Berlese, 1915) **[Recent]** ..... Qt Finland

Galumna sp. *in* Karppinen & Koponen (1974) ..... Qt Finland

Pergalumna* Grandjean, 1936*b ..... **Quaternary – Recent**

327. *Pergalumna dorsalis* (C. L. Koch, 1835) **[Recent]** ..... Qt Finland

328. *Pergalumna nervosa* (Berlese, 1914)* **[Recent]** ..... Qt northern Europe

Pilogalumna* Grandjean, 1956*b ..... **Quaternary – Recent**

329. *Pilogalumna tenuiclava* (Berlese, 1908) **[Recent]** ..... Qt Germany

ASTIGMATA G. Canestrini, 1891 (cohort) ..... **Palaeogene – Recent**

= ACARIDIDA author, date?

SCHIZOGLYPHOIDEA Mahunka, 1978 ..... **Recent**

SCHIZOGLYPHIDAE Mahunka, 1978 ..... **Recent**

no fossil record

HISTIOSTOMATOIDEA Berlese, 1897 ..... **?Palaeogene – Recent**

GUANOLICHIDAE Fain, 1968 ..... **Recent**

no fossil record

HISTIOSTOMATIDAE Berlese, 1897 ..... **?Palaeogene – Recent**

Hististomatidae? [alternatively Acaridae] *in* Dunlop *et al*. (2012) ..... Pa Baltic amber

CANESTRINIOIDEA Berlese, 1884 ..... **Recent**

CANESTRINIIDAE Berlese, 1884 ..... **Recent**

no fossil record

CHETOCHELACARIDAE Fain, 1987 ..... **Recent**

no fossil record

HETEROCOPTIDAE Fain, 1967*b* ..... **Recent**

no fossil record

LEMANNIELLIDAE Wurst, 2001 ..... **Recent**

no fossil record

Superfamily?

Sidorchuk & Klimov (2011) discussed the problems in placing this extinct family

† **GLAESACARIDAE Klimov & Sidorchuk *in* Sidorchuk & Klimov, 2011** ..... **Palaeogene**

† ***Glaesacarus* Klimov & Sidorchuk *in* Sidorchuk & Klimov, 2011** ..... **Palaeogene – Recent**

330. *Glaesacarus rhombeus* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber

HEMISCARPOCTOIDEA Oudemans, 1908 ..... **Neogene – Recent**

ALGOPHAGIDAE Fain, 1974 ..... **Recent**

no fossil record

CARPOGLYPHIDAE Oudemans, 1923 ..... **Recent**

no fossil record

CHAETODACTYLIDAE Zachvatkin, 1941 ..... **Recent**

no fossil record

HEMISARCOPTIDAE Oudemans, 1908 ..... **Recent**

no fossil record

HYADESIIDAE Halbert, 1915 ..... **Recent**

no fossil record

MELIPONOCOPTIDAE Fain & Rosa, 1983 ..... **Recent**

no fossil record

WINTERSCHMIDTIIDAE Oudemans, 1923 ..... **Neogene – Recent**

† ***Amphicalvolia* Türk, 1963** ..... **Neogene – Recent**

331. *Amphicalvolia hurdi* Türk, 1963* ..... Ne Chiapas amber

GLYCOPHAGOIDEA Berlese, 1897 ..... **Recent**

AEROGLYPHIDAE Zachvatkin, 1941 ..... **Recent**

no fossil record

CHORTOGLYPHIDAE Berlese, 1897 ..... **Recent**

no fossil record

ECHIMYOPODIDAE Fain, 1967*a* ..... **Recent**

no fossil record

EUGLYCYPHAGIDAE Fain & Phillips, 1977 ..... **Recent**

no fossil record

GLYCYPHAGIDAE Berlese, 1897 ..... **Recent**

no fossil record

PEDETOPODIDAE Fain, 1969 ..... **Recent**

no fossil record

ROSENSTEINIIDAE Coorman, 1954 ..... **Recent**

= LOPHONOTACARIDAE Fain, 1987

= TROGLOTACARIDAE Fain, 1977

no fossil record

ACAROIDEA Latreille, 1802 ..... **Neogene – Recent**

ACARIDAE Latreille, 1802 ..... **Recent**

[query family placement?]

† ***Tyroglyphites* Pampaloni, 1902** ..... **Neogene – Recent**

332. *Tyroglyphites miocenicus* Pampaloni, 1902* ..... Ne Sicily

GAUDIELLIDAE Atyeo *et al*., 1974 ..... **Recent**

= PARTAMONACOPTIDAE author, date?

= PLATYGLYPHIDAE Kurosa, 1976

no fossil record

GLYCACARIDAE Griffiths, 1977 ..... **Recent**

no fossil record

LARDOGLYPHIDAE Oudemans, 1877 ..... **Recent**

no fossil record

SAPRACARIDAE Fain, 1988 ..... **Recent**

no fossil record

SCATOGLYPHIDAE Zachvatkin & Volgin, 1956 ..... **Recent**

no fossil record

SUIDASIIDAE Hughes, 1948 ..... **Recent**

no fossil record

TYROGLYPHIDAE Donnadieu, 1868 ..... **Quaternary – Recent**

Tyroglyphidae sp. *in* Aoki (1974) ..... Qt Mizunami copal

HYPODERATOIDEA Murray, 1877 ..... **Recent**

HYPODERATIDAE Murray, 1877 ..... **Recent**

no fossil record

PSOROPTIDIA Yunker, 1955 (unranked clade) ..... **Neogene – Recent**

PTEROLICHOIDEA Trouessart & Mégnin, 1884 ..... **Recent**

= FREYANOIDEA Dubinin, 1953

ASCOURACARIDAE Gaud & Atyeo, 1976 ..... **Recent**

no fossil record

CAUDIFERIDAE Gaud & Atyeo, 1978 ..... **Recent**

no fossil record

CHEYLABIDIDAE Gaud, 1983 ..... **Recent**

no fossil record

CRYPTUROPTIDAE Gaud, Atyeo & Berla, 1972 ..... **Recent**

no fossil record

EUSTATHIIDAE Oudemans, 1905 ..... **Recent**

no fossil record

FALCULIFERIDAE Oudemans, 1905 ..... **Recent**

no fossil record

FREYANIDAE Dubinin, 1953 ..... **Recent**

no fossil record

GABUCINIIDAE Gaud & Atyeo, 1975 ..... **Recent**

no fossil record

KIWILICHIDAE Dabert, 1994 ..... **Recent**

no fossil record

KRAMERELLIDAE Gaud & Mouchet, 1961 ..... **Recent**

no fossil record

OCHROLICHIDAE Gaud & Atyeo, 1978 ..... **Recent**

no fossil record

OCONNORIIDAE Gaud, Atyeo & Klompen, 1989 ..... **Recent**

no fossil record

PTEROLICHIDAE Trouessart & Mégnin, 1884 ..... **Recent**

no fossil record

PTILOXENIDAE Gaud, 1982 ..... **Recent**

no fossil record

RECTIJANUIDAE Gaud, 1961 ..... **Recent**

no fossil record

SYRINGOBIIDAE Trouessart, 1897 ..... **Recent**

no fossil record

THORACOSATHESIDAE Gaud & Mouchet, 1959 ..... **Recent**

no fossil record

VEXILLARIIDAE Gaud & Mouchet, 1959 ..... **Recent**

no fossil record

ANALGOIDEA Trouessart & Mégnin, 1884 ..... **Recent**

ALLOPTIDAE Gaud, 1957 ..... **Recent**

no fossil record

ANALGIDAE Trouessart & Mégnin, 1884.....**Recent**

no fossil record

APIONACARIDAE Gaud & Atyeo, 1977 .....**Recent**

no fossil record

AVENZOARIIDAE Oudemans, 1905 .....**Recent**

no fossil record

CYTODITIDAE Oudemans, 1908 ..... **Recent**

no fossil record

DERMATIONIDAE Fain, 1965 ..... **Recent**

no fossil record

DERMOGLYPHIDAE Mégnin & Trouessart, 1884 ..... **Recent**

no fossil record

EPIDERMOPTIDAE Trouessart, 1892 ..... **Recent**

no fossil record

GAUDOGLYPHIDAE Bruce & Johnston, 1976 ..... **Recent**

no fossil record

HETEROPSORIDAE Oudemans, 1908 ..... **Recent**

no fossil record

KNEMIDOKOPTIDAE Dubinin, 1953 ..... **Recent**

no fossil record

LAMINOSIOPTIDAE Vitzthum, 1931 .....**Recent**

no fossil record

PROCTOPHYLLODIDAE Mégnin & Trouessart, 1884 ..... **Recent**

no fossil record

PSORALGIDAE Oudemans, 1908 ..... **Recent**

no fossil record

PSOROPTOIDIDAE Gaud, 1983 .....**Recent**

no fossil record

PTERONYSSIDAE Oudemanns, 1941 ..... **Recent**

no fossil record

PTYSSALGIDAE Atyeo & Gaud, 1979 ..... **Recent**

no fossil record

PYROGLYPHIDAE Cunliffe, 1958 ..... **Recent**

no fossil record

TARSOCHEYLIDAE Atyeo & Gaud, 1979 ..... **Recent**

no fossil record

THYSANOCERCIDAE Atyeo & Peterson, 1972 ..... **Recent**

no fossil record

TROUESSARTIIDAE Gaud, 1957 ..... **Recent**

no fossil record

TURBINOPTIDAE Fain, 1957 ..... **Recent**

no fossil record

XOLALGIDAE Dubinin, 1953 ..... **Recent**

no fossil record

SARCOPTOIDEA Murray, 1877 ..... **Neogene–Recent**

= PSOROPTIOIDEA Canestrini, 1892

ACAROPTIDAE Womersley, 1953 ..... **Recent**

no fossil record

ATOPOMELIDAE Gunter, 1942 ..... **Neogene–Recent**

?Apotomelidae sp. [originally as Listrophoridae in Poinar 1988] ..... Ne Dominican amber

AUDYCOPTIDAE Lavoipierre, 1964 ..... **Recent**

no fossil record

CHIRODISCIDAE Trouessart, 1892 ..... **Recent**

no fossil record

CHIRORHYNCHOBIIDAE Fain, 1967 ..... **Recent**

no fossil record

GALAGALIDAE Fain, 1963 ..... **Recent**

no fossil record

GASTRONYSSIDAE Fain, 1956 ..... **Recent**

no fossil record

LEMURNYSIIDAE Fain, 1957 ..... **Recent**

no fossil record

LISTROPHORIDAE Mégnin & Trouessart, 1884 ..... **Recent**

no fossil record

LOBALGIDAE Fain, 1965 ..... **Recent**

no fossil record

MYCOPTIDAE Gunther, 1942..... **Recent**

no fossil record

PSOROPTIDAE Canestrini, 1892 ..... **Recent**

no fossil record

PNEUMOCOPTIDAE Fain, 1957 ..... **Recent**

no fossil record

RHYNCOPTIDAE Lawrence, 1956 ..... **Recent**

no fossil record

SARCOPTIDAE Murray, 1877 ..... **Recent**

no fossil record

NOMINA DUBIA

1. *Acarus resinosus* Presl, 1822 ..... Pa Baltic amber
2. *Strieremaeus cordiformatus* Sellnick, 1919 [as *species inquirenda*] ..... Pa Baltic amber

NOMINA NUDA

1. *Erythraeus hirsutissimus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
2. *Gymnodamaeus kulczynskii* Petrunkevitch, 1955*a* ..... Pa Baltic amber
3. *Trombidium fossile* Keferstein, 1834 ..... Pa Aix-en-Provence?

MISIDENTIFICATIONS

1. *Limnochares antiquus* Heyden, 1862 [larval hemipteran insect] ..... Pa Rott, Germany

RECENT CONTAMINENTS?

1. *Acarus siro* (Linnaeus, 1758) *in* Kumar *et al*. (2011) ..... P Chamba Valley, India
2. *Acarus indicus* Kumar, Ja Jha, Bhattacharya & Pande, 2011 ..... P Chamba Valley, India

Sidorchuck (2018) regarded these species as immature nothroid oribatids, quite possibly modern contaminents

NON NAMES IN ZOOLOGY

taxa assigned to living mite genera based on the fossil responses of plant tissue (galls); see discussion in Dunlop & Braddy (2011)

1. *Eriophyes daphnogene* Ambrus & Hably, 1979 [fossil gall] ……..…..... Pa Hungary
2. *Eryophies* [*sic*] *vilarrubiae* Villalta, 1957 [fossil gall] ……..…..... Ne Spain
3. *Phytopus antiquus* van Heyden, 1860 [fossil gall] …….....….....Ne Rott, Germany

c. 36,900 Recent species according to Hallan (2004)

RICINULEI

22 currently valid species of fossil ricinuleid

RICINULEI Thorell, 1876*c* ..... **Carbon. – Recent**

= RHINOGASTRA Cook, 1899

= PODOGONA Cook, 1899

† **PRIMORICINULEI Wunderlich, 2015*c* (suborder)** ..... **Cretaceous**

† **PRIMORICINULEIDAE Wunderlich, 2015*c*** ..... **Cretaceous**

† ***Primoricinuleus* Wunderlich, 2015*c*** ..... **Cretaceous**

1. *Primoricinuleus pugio* Wunderlich, 2015*c** ..... K Burmese amber

† **HIRSUTISOMIDAE Wunderlich, 2017*b*** ..... **Cretaceous**

† ***Hirsutisoma* Wunderlich, 2017*b*** ..... **Cretaceous**

2. *Hirsutisoma acutiformis* Wunderlich, 2017*b* ..... K Burmese amber
3. *Hirsutisoma bruckschi* Wunderlich, 2017*b** ..... K Burmese amber
4. *Hirsutisoma dentata* Wunderlich, 2017*b* ..... K Burmese amber

† **MONOOCULRCINULIDAE Wunderlich, 2017*b*** ..... **Cretaceous**

† ***Monooculricinuleus* Wunderlich, 2017*b*** ..... **Cretaceous**

5. *Monooculricinuleus incisus* Wunderlich, 2017*b** ..... K Burmese amber
6. *Monooculricinuleus semiglobosus* Wunderlich, 2017*b** ..... K Burmese amber

these two species appear to be misidentified laniatorids (Opiliones) from the family Sandokanidae; see also comments in Wunderlich & Müller (2018)

† **PALAEORICINULEI Selden, 1992 (suborder)** ..... **Carboniferous – ?Cret.**

Wunderlich (2012*e*) treated Selden's two suborders as superfamilies

Ricinulei indet. *in* Wunderlich (2012*e*) ..... K Burmese amber

† **CURCULIOIDIDAE Cockerell, 1916** ..... **Carboniferous**

† ***Amarixys* Selden, 1992** ..... **Carboniferous**

7. *Amarixys gracilis* (Petrunkevitch, 1945*a*) ..... C Mazon Creek
8. *Amarixys stellaris* Selden, 1992 ..... C Mazon Creek
9. *Amarixys sulcata* (Melander, 1903)* ..... C Mazon Creek

† ***Curculioides* Buckland, 1837** ..... **Carboniferous**

10. *Curculioides adompha* Brauckmann, 1987 ..... C Hagen-Vorhalle
11. *Curculioides ansticii* Buckland, 1837* ..... C Coalbrookdale
12. *Curculioides eltringhami* Petrunkevitch, 1949 ..... C Crawcrook
13. *Curculioides gigas* Selden, 1992 ..... C Mazon Creek
14. *Curculioides granulatus* Petrunkevitch, 1949 ..... C Ilkeston
15. *Curculioides mcluckiei* Selden, 1992 ..... C Mazon Creek

16. *Curculioides pococki* Selden, 1992 ..... C Coseley
17. *Curculioides scaber* (Scudder, 1890*b*) ..... C Mazon Creek

† **POLIOCHERIDAE Scudder, 1884** ..... **Carboniferous – ?Cret.**

† ***Poliochera* Scudder, 1884** ..... **Carboniferous – ?Cret.**

18. ?*Poliochera cretacea* Wunderlich, 2012*e* ..... K Burmese amber
19. *Poliochera gibbsi* Selden, 1992 ..... C Illinois
20. *Poliochera glabra* Petrunkevitch, 1913 ..... C Mazon Creek
21. *Poliochera punctulata* Scudder, 1884* ..... C Mazon Creek

† ***Terpsicroton* Selden, 1992** ..... **Carboniferous**

22. *Terpsicroton alticeps* Selden, 1992* ..... C Coseley

NEORICINULEI Selden, 1992 (suborder) ..... Recent

RICINOIDIDAE Ewing, 1929 ..... **Recent**

= CRYPTOSTEMMIDAE Westwood, 1874

no fossil record

NOMINA DUBIA

1. *Poliochera* / *Curculioides pustulatus* Laurentiaux-Viera & Laurentiaux, 1963 ..... C Kiaping

76 Recent species according to Fernández & Giribet (2015)

ARACHNIDA and/or PANTETRAPULMONATA *incertae sedis*

4 currently valid, unplaced fossil arachnid and/or tetrapulmonate species

- all four species below have been suggested as possible members of the so-called pantetrapulmonate arachnids; i.e. spiders and their closest relatives
- *Idmonarachne* was specifically proposed as a putative sister-group to spiders

† ***Ecchosis* Selden & Shear, 1991** ..... **Devonian**

1. *Ecchosis pulchribothrium* Selden & Shear *in* Selden *et al*. 1991* ..... D Gilboa

† ***Idmonarachne* Garwood, Dunlop, Selden, Spencer, Atwood, Vo & Drakopoulos, 2016** ..... **Devonian**

2. *Idmonarachne brasieri* Garwood, Dunlop, Selden, Spencer, Atwood, Vo & Drakopoulos, 2016* ..... C Montceau-les-Mines

† ***Saccogulus* Dunlop, Fayers, Hass & Kerp, 2006** ..... **Devonian**

3. *Saccogulus seldeni* Dunlop, Fayers, Hass & Kerp, 2006* ..... D Rhynie chert

† ***Xenarachne* Dunlop & Poschmann, 1997** ..... **Devonian**

4. *Xenarachne wilwerathensis* Dunlop & Poschmann, 1997* ..... D Willwerath

no Recent species

TRIGONOTARBIDA

70 currently valid species of fossil trigonotarbid

† **TRIGONOTARBIDA Petrunkevitch, 1949** ..... **Silurian – Permian**

= ANTHRACOMARTI Karsch, 1882

= MERIDOGASTRA Thorell & Lindström, 1885

= EURYMARTI Matthew, 1895

plesion genus

† ***Palaeotarbus*** **Dunlop, 1999** ..... **Silurian**

= † *Eotarbus* Dunlop, 1996 [preoccupied]

1. *Palaeotarbus jerami* (Dunlop, 1996)* ..... S Ludford Lane

† **PALAEOCHARINIDAE Hirst, 1923** ..... **Devonian**

† ***Aculeatarbus*** **Shear, Selden & Rolfe, 1987** ..... **Devonian**

2. *Aculeatarbus depressus* Shear, Selden & Rolfe, 1987* ..... D Gilboa

† ***Gelasinotarbus*** **Shear, Selden & Rolfe, 1987** ..... **Devonian**

3. *Gelasinotarbus bifidus* Shear, Selden & Rolfe, 1987 ..... D Gilboa
4. *Gelasinotarbus bonamoae* Shear, Selden & Rolfe, 1987* ..... D Gilboa
5. *Gelasinotarbus heptops* Shear, Selden & Rolfe, 1987 ..... D Gilboa
6. *Gelasinotarbus reticulatus* Shear, Selden & Rolfe, 1987 ..... D Gilboa

† ***Gigantocharinus*** **Shear, 2000** ..... **Devonian**

7. *Gigantocharinus szatmaryi* Shear, 2000* ..... D Red Hill, USA

† ***Gilboarachne*** **Shear, Selden & Rolfe, 1987** ..... **Devonian**

8. *Gilboarachne griersoni* Shear, Selden & Rolfe, 1987* ..... D Gilboa

† ***Palaeocharinus*** **Hirst, 1923** ..... **Devonian**

= † *Palaeocharinoides* Hirst, 1923

9. *Palaeocharinus calmani* Hirst, 1923 ..... D Rhynie cherts
10. *Palaeocharinus hornei* (Hirst, 1923) ..... D Rhynie cherts
11. *Palaeocharinus kidstoni* Hirst, 1923 ..... D Rhynie cherts
12. *Palaeocharinus rhyniensis* Hirst, 1923* ..... D Rhynie cherts
13. *Palaeocharinus scourfieldi* Hirst, 1923 ..... D Rhynie cherts
14. *Palaeocharinus tuberculatus* Fayers, Dunlop & Trewin, 2005 ..... D Rhynie cherts

† ***Spinocharinus*** **Poschmann & Dunlop, 2011** ..... **Devonian**

15. *Spinocharinus steinmeyeri* Poschman & Dunlop, 2011* ..... D Bürdenbach

† **ARCHAEOMARTIDAE Poschmann & Dunlop, 2010** ..... **Devonian**

† ***Archaeomartus*** **Størmer, 1970** ..... **Devonian**

16. *Archaeomartus levis* Størmer, 1970* ..... D Alken an der Mosel
    i. = *Archaeomartus tuberculatus* Størmer, 1970 ..... D Alken an der Mosel

† **ANTHRACOMARTIDAE Haase, 1890** ..... **Carboniferous**

= † PROMYGALIDAE Frič, 1904

= † BRACHYPYGIDAE Pocock, 1911

= † CORYPHOMARTIDAE Petrunkevitch, 1945

= † PLEOMARTIDAE Petrunkevitch, 1945

† ***Anthracomartus*** **Karsch, 1882** ..... **Carboniferous**

= † *Brachylycosa* Frič, 1904

= † *Cleptomartus* Petrunkevitch, 1949

= † *Coryphomartus* Petrunkevitch, 1945*a*

= † *Cryptomartus* Petrunkevitch, 1945*a*

= † *Oomartus* Petrunkevitch, 1953

= † *Perneria* Frič, 1904

= † *Pleomartus* Petrunkevitch, 1945*a*

= † *Promygale* Frič, 1901

17. *Anthracomartus bohemica* (Frič, 1901) ..... C Nýřany
18. *Anthracomartus carcinoides* (Frič, 1901) ..... C Nýřany
    i. = *Promygale rotundata* Frič, 1901 ..... C Nýřany
    ii. = *Perneria salticoides* Frič, 1904 ..... C ?Nýřany
19. *Anthracomartus elegans* Frič, 1901 ..... C Nýřany
20. *Anthracomartus hindi* Pocock, 1911 ..... C Coseley
    i. = *Cleptomartus hangardi* Guthörl, 1965 ..... C Saar, Germany
    ii. = *Cryptomartus meyeri* Guthörl, 1964 ..... C Aachen
    iii. = *Cleptomartus planus* Petrunkevitch, 1949 ..... C Coseley
    iv. = *Cryptomartus rebskei* Brauckmann, 1984 ..... C Saarbrücken
21. *Anthracomartus granulatus* Frič, 1904 ..... C Nowa Ruda
22. *Anthracomartus janae* (Opluštil, 1986) ..... C Kladno
23. *Anthracomartus kustae* Petrunkevitch, 1953 ..... C Rakovník
24. *Anthracomartus minor* Kušta, 1884 ..... C Rakovník
    i. = *Anthracomartus socius* Kušta, 1888 ..... C Rakovník
25. *Anthracomartus nyranensis* (Petrunkevitch, 1953) ..... C Nýřany
26. *Anthracomartus palatinus* Ammon, 1901 ..... C Brücken, Germany
27. *Anthracomartus preisti* Pocock, 1911 ..... C Coseley
    i. = *Anthracomartus denuiti* Pruvost, 1922 ..... C Charleroi
    ii. = *Cleptomartus plautus* Petrunkevitch, 1949 ..... C Coseley
28. *Anthracomartus radvanicensis* (Opluštil, 1985) ..... C Radvanice
29. *Anthracomartus triangularis* Petrunkevitch, 1913 ..... C Joggins
30. *Anthracomartus trilobitus* Scudder, 1884 ..... C Fayetteville
31. *Anthracomartus voelkelianus* Karsch, 1882* ..... C Europe

    Anthracomartus sp. *in* Wright & Selden (2011) ..... C Kansas

† ***Brachypyge*** **Woodward, 1878*b*** ..... **Carboniferous**

32. *Brachypyge carbonis* Woodward, 1878*b** ..... C Mons

† ***Maiocercus*** **Pocock, 1911** ..... **Carboniferous**

33. *Maiocercus celticus* (Pocock, 1902)* ..... C Coal Measures

i. = *Maiocercus orbicularis* Gill, 1911 ..... C Westhoughton

† **ANTHRACOSIRONIDAE Pocock, 1903*a*** ..... **Devonian – Carbon.**

† ***Anthracosiro*** **Pocock, 1903*a*** ..... **Carboniferous**

34. *Anthracosiro fritschii* Pocock, 1903*b* ..... C Coseley

i. = *Anthracosiro elongatus* Waterlot, 1934 ..... C Marlebach, France

35. *Anthracosiro woodwardi* Pocock, 1903*a** ..... C Coal Measues

i. = *Anthracosiro corsini* Pruvost, 1926 ..... C Noeux, France

ii. = *Anthracosiro latipes* Gill, 1909 ..... C Ryton-on-Tyne, UK

† ***Arianrhoda*** **Dunlop & Selden, 2004** ..... **Devonian**

36. *Arianrhoda bennetti* Dunlop & Selden, 2004* ..... D Tredomen

† ***Vratislavia*** **Frič, 1904** ..... **Carboniferous**

37. *Vratislavia silesica* (Roemer, 1878)* ..... C Silesia

† **TRIGONOTARBIDAE Petrunkevitch, 1949** ..... **Devonian – Carbon.**

† ***Trigonotarbus*** **Pocock, 1911** ..... **Devonian – Carbon.**

38. *Trigonotarbus arnoldi* Petrunkevitch, 1955*b* ..... C Decazeville

39. *Trigonotarbus johnsoni* Pocock, 1911* ..... C Coseley

40. *Trigonotarbus stoermeri* Schultka, 1991 ..... D Rheinischen Schief.

Family uncertain

† ***Aenigmatarbus*** **Poschmann, Dunlop, Bértoux & Galtier, 2016** ..... **Carboniferous**

41. *Aenigmatarbus rastelli* Poschmann, Dunlop, Bértoux & Galtier, 2016* .. C Graissessac, France

† ***Namurotarbus*** **Poschmann & Dunlop, 2010** ..... **Carboniferous**

42. *Namurotarbus roessleri* (Dunlop & Brauckmann, 2006)* ..... C Hagen-Vorhalle

† ***Permotarbus*** **Dunlop & Rößler, 2013** ..... **Permian**

43. *Permotarbus schuberti* Dunlop & Rößler, 2013 ..... P Chemnitz

† ***Tynecotarbus*** **Hradská & Dunlop, 2013** ..... **Carboniferous**

44. *Tynecotarbus tichaveki* Hradská & Dunlop, 2013 ..... C Týnec

† **LISSOMARTIDAE Dunlop, 1995** ..... **Carboniferous**

† ***Lissomartus*** **Petrunkevitch, 1949** ..... **Carboniferous**

45. *Lissomartus carbonarius* (Petrunkevitch, 1913) ..... C Mazon Creek

46. *Lissomartus schucherti* (Petrunkevitch, 1913)* ..... C Mazon Creek

† **APHANTOMARTIDAE Petrunkevitch, 1945*a*** ..... **Devonian – Permian**

= † TRIGONOMARTIDAE Petrunkevitch, 1949

† ***Alkenia*** **Størmer, 1970** ..... **Devonian**

47. *Alkenia mirabilis* Størmer, 1970* ..... D Alken an der Mosel

† ***Aphantomartus*** **Pocock, 1911** ..... **Carbon. – Permian**

= † *Trigonomartus* Petrunkevitch, 1913

= † *Phrynomartus* Petrunkevitch, 1945*a*

48. *Aphantomartus areolatus* Pocock, 1911* ..... C–P Coal Measues
    i. = *Aphantomartus pococki* Pruvost, 1912 ..... C Anzin, France
    ii. = *Trigonomartus dorlodoti* Pruvost, 1930 ..... C Rien, France
    iii. = *Eophrynus waechteri* Guthörl, 1938 ..... C Saar
    iv. = ?*Trigonomartus pruvosti* van der Heide, 1951 ..... C Limbourg
    v. = ?*Brachylycosa manebachensis* Müller, 1957 ..... C Rotliegenden
49. *Aphantomartus ilfeldicus* (Scharf, 1924) ..... P Rotliegend
50. *Aphantomartus pustulatus* (Scudder, 1884) ..... C Coal Measures
    i. = ?*Kreischeria villeti* Pruvost, 1912 ..... C Pas de Calais
    ii. = *Cleptomartus plötzensis* Simon, 1971 ..... C Halleschen Mulde

† **KREISCHERIIDAE Haase, 1890** ..... **Carboniferous**

† ***Anzinia* Petrunkevitch, 1953** ..... **Carboniferous**

51. *Anzinia thevenini* (Pruvost, 1919)* ..... C Anzin

† ***Gondwanarache* Pinto & Hünicken, 1980** ..... **Carboniferous**

52. *Gondwanarache argentinensis* Pinto & Hünicken, 1980* ..... C Bajo de Véliz

† ***Hemikreischeria* Frič, 1904** ..... **Carboniferous**

53. *Hemikreischeria geinitzi* (Thevenin, 1902)* ..... C France

† ***Kreischeria* Geinitz, 1882** ..... **Carboniferous**

54. *Kreischeria wiedei* Geinitz, 1882* ..... C Zwickau

† ***Pseudokreischeria* Petrunkevitch, 1953** ..... **Carboniferous**

55. *Pseudokreischeria pococki* (Gill, 1924) ..... C Crawcrook
    i. = *Eophrynus varius* Petrunkevitch, 1949 ..... C Crawcrook

† **EOPHRYNIDAE Karsch, 1882** ..... **Carboniferous**

= † HEMIPHRYNIDAE Frič, 1904

† ***Eophrynus* Woodward, 1871*b*** ..... **Carboniferous**

56. *Eophrynus prestvicii* (Buckland, 1837)* ..... C Coalbrookdale
57. *Eophrynus udus* Brauckmann, Koch & Kemper, 1985 ..... C Hagen-Vorhalle

† ***Nyranytarbus* Harvey & Selden, 1995** ..... **Carboniferous**

= † *Hemiphrynus* Frič, 1901 [preoccupied]

58. *Nyranytarbus hofmanni* (Frič, 1901) ..... C Nýřany
59. *Nyranytarbus longipes* (Frič, 1901)* ..... C Nýřany

† ***Petrovicia* Frič, 1904** ..... **Carboniferous**

60. *Petrovicia proditoria* Frič, 1904* ..... C Petrovice

† ***Planomartus* Petrunkevitch, 1953** ..... **Carboniferous**

61. *Planomartus krejcii* (Kušta, 1883)* ..... C Rakovník
    i. = *Anthracomartus affinis* Kušta, 1885 ..... C Rakovník

† ***Pleophrynus* Petrunkevitch, 1945*a*** ..... **Carboniferous**

62. *Pleophrynus verrucosus* (Pocock, 1911) ..... C Coal Measures

i. = *Eophrynus warei* Dix & Pringle, 1930 ..... C Glyncoch, UK
ii. = *Pleophrynus ensifer* Petrunkevitch, 1945*a** ..... C Mazon Creek
iii. = *Eophrynus jugatus* Ambrose & Romano, 1972 ..... C Kilmersdon, UK

63. *Pleophrynus hawsei* Dunlop, Wang, Selden & Krautz, 2014..... C Kinney Brick Quarry

† ***Pocononia*** **Petrunkevitch, 1953** ..... **Carboniferous**

64. *Pocononia whitei* (Ewing, 1930)* ..... C Pocono Shales

† ***Somaspidion*** **Jux, 1982** ..... **Carboniferous**

65. *Somaspidion hammapheron* Jux, 1982* ..... C Dinslaken

† ***Stenotrogulus*** **Frič, 1904** ..... **Carboniferous**

= † *Cyclotrogulus* Frič, 1904
= † *Pseudoeophrynus* Příbyl, 1958

66. *Stenotrogulus salmii* (Stur, 1877)* ..... C Ostrava
i. = *Cyclotrogulus sturii* Frič, 1904 [*non* Hasse, 1890] ..... C Ostrava
ii. = *Pseudoeophrynus ostraviensis* Příbyl, 1958 ..... C Ostrava

TRIGONOTARBIDA *incertae sedis*

† ***Anthracophrynus*** **Andrée, 1913** ..... **Carboniferous**

67. *Anthracophrynus tuberculatus* Andrée, 1913* ..... C Dudweiler

† ***Areomartus*** **Petrunkevitch, 1913** ..... **Carboniferous**

68. *Areomartus ovatus* Petrunkevitch, 1913* ..... C West Virginia

† **‘*Eophrynus*’**

69. ‘*Eophrynus*’ *scharfi* Scharf, 1924 ..... P Rotliegend

† ***Aphantomartus*** **Pocock, 1911** ..... **Carboniferous**

70. *Aphantomartus woodruffi* (Scudder, 1893) ..... C Rhode Island
as*Trigonomartus*

NOMINA DUBIA

1. *Anthracomartus buchi* (Goldenberg, 1873) ..... C Saarbrücken
2. *Anthracomartus hageni* (Goldenberg, 1873) ..... C Saarbrücken
3. *Elaverimartus pococki* Petrunkevitch, 1953 ..... C Ellismuir
   i. = *Palaeophalangium Scoticum* Peach *in* Murdoch, 1893 [*nomen nudum*]
4. *Eurymartus latus* Matthew, 1895 ..... C Fern Ledges
5. ?*Eurymartus spinulosus* Matthew, 1895 ..... C Fern Ledges

no Recent species

URARANEIDA

2 currently valid species of uraraneid

- The two uraraneids were previously interpreted as true spiders (Araneae), but are now thought to be a more basal lineage which produced silk but lacked spinnerets.
- Wunderlich (2015*b*) suggested that Uraraneida should be treated as suborder of Araneae, alongside an Araneida group for all true spiders.

† **URARANEIDA Selden & Shear *in* Selden *et al*., 2008** ..... **Devonian – Permian**

FAMILY UNCERTAIN

† ***Attercopus* Selden & Shear *in* Selden *et al*. (1991)** ..... **Devonian**

1. *Attercopus fimbriunguis* (Shear, Selden & Rolfe, 1987)* ..... D Gilboa, New York

† **PERMARACHNIDAE Eskov & Selden, 2005** ..... **Permian**

† ***Permarachne* Eskov & Selden, 2005** ..... **Permian**

2. *Permarachne novokshonovi* Eskov & Selden, 2005* ..... P Matveyevka

ARANEAE

1,399 currently valid species of fossil spider

ARANEAE Clerck, 1757 ..... **Carbon. – Recent**

Wunderlich (2019) suggested dividing an order Araneida into two suborders: Chimerarachnida and Araneae

† **CHIMERARACHNIDAE Wunderlich, 2019** ..... **Cretaceous**

† ***Chimerarachne* Wang *et al*., 2018** ..... **Cretaceous**

1. *Chimerarachne yingi* Wang *et al*., 2018* ..... K Burmese amber

   Wang *et al*. (2018) suggested this is a basal spider with a tail, while a companion paper by Huang *et al*. (2018) resolved it closer to uraraneids

'mesotheles' ..... **Carbon. – Recent**

† **ARTHROLYCOSIDAE Frič, 1904** ..... **Carboniferous**

† ***Arthrolycosa* Harger, 1874** ..... **Carbon. – Permian**

2. *Arthrolycosa antiqua* Harger, 1874* ..... C Mazon Creek
3. *Arthrolycosa danielsi* Petrunkevitch, 1913 ..... C Mazon Creek

Arthrolycosa sp. *in* Eskov & Selden (2005) ..... P Kityak river

Arthrolycosa sp. *in* Selden *et al*. (2014) ..... C Chunya, Russia

Arthrolycosa sp. *in* Selden *et al*. (2014) ..... C Donets Basin

† ***Eocteniza* Pocock, 1911** ..... **Carboniferous**

4. *Eocteniza silvicola* Pocock, 1911* ..... C Coseley

† **ARTHROMYGALIDAE Petrunkevitch, 1923** ..... **Carboniferous**

† ***Arthromygale* Petrunkevitch, 1923** ..... **Carboniferous**

5. *Arthromygale fortis* (Frič, 1904)* ..... C Rakovník

   i. = *Arthrolycosa beecheri* Frič, 1904 ..... C Rakovník

† ***Eolycosa* Kušta, 1885** ..... **Carboniferous**

6. *Eolycosa lorenzi* Kušta, 1885* ..... C Rakovník

† ***Geralycosa* Kušta, 1888** ..... **Carboniferous**

7. *Geralycosa fritschi* Kušta, 1888* ..... C Rakovník

† ***Kustaria* Petrunkevitch, 1953** ..... **Carboniferous**

= † *Scudderia* Kušta, 1888 [preoccupied]

8. *Kustaria carbonaria* (Kušta, 1888)* ..... C Rakovník

† ***Palaranea* Frič, 1873** ..... **Carboniferous**

9. *Palaranea borassifoliae* Frič, 1873* ..... C Czech Republic

† ***Protocteniza* Petrunkevitch, 1949** ..... **Carboniferous**

10. *Protocteniza britannica* Petrunkevitch, 1949* ..... C Coseley

† ***Protolycosa* Roemer, 1866** ..... **Carboniferous**

11. *Protolycosa anthracophilia* Roemer, 1866* ..... C Silesia
12. *Protolycosa cebennensis* Laurentiaux-Viera & Laurentiaux, 1963 ..... C Cévennes, France

† ***Rakovnicia* Kušta, 1884*a*** ..... **Carboniferous**

13. *Rakovnicia antiqua* Kušta, 1884*a** ..... C Rakovník

† **PYRITARANEIDAE Petrunkevitch, 1953** ..... **Carboniferous**

† ***Dinopilio* Frič, 1904** ..... **Carboniferous**

14. *Dinopilio gigas* Frič, 1904* ..... C Rakovník
15. *Dinopilo parvus* Petrunkevitch, 1953 ..... C Kent, UK

† ***Pyritaranea* Frič, 1901** ..... **Carboniferous**

16. *Pyritaranea tubifera* Frič, 1901* ..... C Nýřany

MESOTHELAE Pocock, 1892 ..... Carbon. – Recent

Mesothelae indet. *in* Wunderlich (2017*c*) ..... K Burmese amber

plesion genus

† ***Palaeothele* Selden, 2000** ..... **Carboniferous**

= † *Eothele* Selden, 1996 [preoccupied]

17. *Palaeothele montceauensis* (Selden, 1996)* ..... C Montceau-les-Mines

† **EOMESOTHELIDAE Wunderlich, 2019** ..... **Cretaceous**

† ***Eomesothele* Wunderlich, 2019** ..... **Cretaceous**

18. *Eomesothele noninclinata* Wunderlich, 2019* ..... K Burmese amber

† ***Intermesothele* Wunderlich, 2019** ..... **Cretaceous**

19. *Intermesothelae pulcher* Wunderlich, 2019* ..... K Burmese amber

† **BURMATHELIDAE Wunderlich, 2017*c*** ..... **Cretaceous**

† ***Burmathele* Wunderlich, 2015*b*** ..... **Cretaceous**

20. *Burmathele biseriata* Wunderlich, 2017*c** ..... K Burmese amber

Burmathele sp. indet. *in* Wunderlich (2017*c*, 2019) ..... K Burmese amber

† **CRETACEOTHELIDAE Wunderlich, 2017*c*** ..... **Cretaceous**

† ***Cretaceothele* Wunderlich, 2015*b*** ..... **Cretaceous**

21. *Cretaceothele lata* Wunderlich, 2015*b** ..... K Burmese amber

† **PARVITHELIDAE Wunderlich, 2017*c*** ..... **Cretaceous**

† ***Parvithele* Wunderlich, 2017*c*** ..... **Cretaceous**

22. *Parvithele muelleri* Wunderlich, 2017*c** ..... K Burmese amber
23. *Parvithele spinipes* Wunderlich, 2017*c* ..... K Burmese amber

Parvithele sp. indet *in* Wunderlich (2017*c*, 2019) ..... K Burmese amber

† ***Pulvillothele* Wunderlich, 2017*c*** ..... **Cretaceous**

24. *Pulvillothele haupti* Wunderlich, 2017*c** ..... K Burmese amber

LIPHISTIIDAE Pocock, 1892 ..... **Recent**

= HEPTATHELIDAE Haupt, 1983

no fossil record

OPISTHOTHELAE Pocock, 1892 ..... Triassic – Recent

Opisthothelae *incertae sedis*

† ***Eoatypus* McCook, 1888** ..... **Palaeogene**

25. *Eoatypus woodwardii* McCook, 1888* ..... Pa Isle of Wight

MYGALOMORPHAE Pocock, 1892 ..... Triassic – Recent

Mygalomorphae indet. 1–3 *in* Wunderlich (2008*d*) ..... K Burmese amber

Mygalomorphae indet. 1–2 *in* Wunderlich (2015*b*) ..... K Burmese amber

Mygalomorphae indet. 1–2 *in* Wunderlich (2017*c*) ..... K Burmese amber

Mygalomorphae indet. *in* Park *et al*. (2019) ..... K Jinju Form., Korea

ATYPOIDEA Thorell, 1870*a* ..... **Triassic – Recent**

† ***Friularachne* Dalla Vecchia & Selden, 2013** ..... **Triassic**

26. *Friularachne rigoi* Dalla Vecchia & Selden, 2013* ..... Tr Friurli, Italy

ATYPIDAE Thorell, 1870*a* ..... **Cretaceous – Recent**

= CALOMMATOIDAE Thorell, 1887

?Atypidae indet. *In* Wunderlich, 2015*b* ..... K Burmese amber

† ***Ambiortiphagus* Eskov & Zonstein, 1990** ..... **Cretaceous**

27. *Ambiortiphagus ponomarenkoi* Eskov & Zonstein, 1990* ..... K Central Mongolia

***Atypus* Latreille 1804** ..... **Palaeogene – Recent**

= † *Balticatypus* Wunderlich, 2011*h*

28. *Atypus beigeli* (Wunderlich, 2011*h*) ..... Pa Baltic amber

29. *Atypus juvenis* (Wunderlich, 2011*h*) ..... Pa Baltic amber

30. *Atypus spinosus* (Wunderlich, 2011*h*) ..... Pa Baltic amber

Atypus sp. *in* Perkovsky *et al*. (2018) ..... Pa Rovno amber

ANTRODIAETIDAE Gertsch *in* Comstock, 1940 ..... **Cretaceous – Recent**

= BRACHYBOTHRIDAE Simon, 1892

= ACCATYMIDAE Kishida, 1930

† ***Cretacattyma* Eskov & Zonstein, 1990** ..... **Cretaceous**

31. *Cretacattyma raveni* Eskov & Zonstein, 1990* ..... K Central Mongolia

MECICOBOTHRIIDAE Holmberg, 1882 ..... **Cretaceous – Recent**

= HEXURIDAE Simon, 1889*b*

† ***Cretohexura* Eskov & Zonstein, 1990** ..... **Cretaceous**

32. *Cretohexura coylei* Eskov & Zonstein, 1990* ..... K Transbaikalia

† ***Cretomegahexura* Eskov & Zonstein, 1990** ..... **Cretaceous**

33. *Cretomegahexura platnicki* Eskov & Zonstein, 1990* ..... K Central Mongolia

AVICULAROIDEA Author, date ..... **Triassic – Recent**

DIPLURIDAE Simon, 1889*b* ..... **Triassic – Recent**

Dipluridae sp. 1–3 *in* Wunderlich (2004*a*) ..... Pa Baltic amber

Dipluridae sp. *in* Wunderlich (2004*a*) ..... Ne Dominican amber

Dipluridae indet. *in* Wunderlich (2012*d*) ..... K Burmese amber

Dipluridae indet. *in* Wunderlich (2015*b*) ..... K Burmese amber

† ***Cethegoides* Wunderlich, 2017*c*** ..... **Cretaceous**

34. *Cethegoides patricki* Wunderlich, 2017*c** ..... Pa Baltic / Bitt. amber

† ***Clostes* Menge, 1869** ..... **Palaeogene**

35. *Clostes priscus* Menge, 1869* ..... Pa Baltic / Bitt. amber

† ***Cretadiplura* Selden *in* Selden *et al*., 2006** ..... **Cretaceous**

36. *Cretadiplura ceara* Selden *in* Selden *et al*., 2006* ..... K Crato Formation

† ***Dinodiplura* Selden *in* Selden *et al*., 2006** ..... **Cretaceous**

37. *Dinodiplura ambulacra* Selden *in* Selden *et al*., 2006* ..... K Crato Formation

† ***Edwa* Raven, Jell & Knezour, 2015** ..... **Triassic**

38. *Edwa maryae* Raven, Jell & Knezour, 2015* ..... Tr Qnslnd., Australia

***Ischnothele* Ausserer, 1875** ..... **?Neogene – Recent**

?*Ischnothele* sp. *in* Wunderlich (1988) ..... Ne Dominican amber

***Masteria* L. Koch, 1873** ..... **Neogene – Recent**

= † *Microsteria* Wunderlich, 1988

39. *Masteria sexoculata* (Wunderlich, 1988) ..... Ne Dominican amber

?Masteria sp. *in* Schawaller (1982*c*: as ?*Ischnothele*) ..... Ne Dominican amber

† ***Phyxioschemoides* Wunderlich, 2015*b*** ..... **Cretaceous**

40. *Phyxioschemoides collembola* Wunderlich, 2015*b** ..... K Burmese amber

† ***Seldischnoplura* Raven, Jell & Knezour, 2015** ..... **Cretaceous**

41. *Seldischnoplura seldeni* Raven, Jell & Knezour, 2015* ..... K Crato Formation

† **FOSSILCALCARIDAE Wunderlich, 2015*b*** ..... **Cretaceous**

† ***Fossilcalcar* Wunderlich, 2015*b*** ..... **Cretaceous**

42. *Fossilcalcar praeteritus* Wunderlich, 2015*b** ..... K Burmese amber

HEXATHELIDAE Simon, 1892*b* ..... **Triassic – Recent**

† ***Alioatrx* Wunderlich, 2017*c*** ..... **Cretaceous**

43. *Alioatrax incertus* Wunderlich, 2017*c** ..... K Burmese amber

† ***Rosamygale* Selden & Gall, 1992** ..... **Triassic**

44. *Rosamygale grauvogeli* Selden & Gall, 1992* ..... Tr Vosges, France

CTENIZIDAE Thorell, 1887 ..... **Palaeogene – Recent**

= HALONOPROCTIDAE Pocock, 1903

† ***Baltocteniza* Eskov & Zonstein, 2000** ..... **Palaeogene**

45. *Baltocteniza kulickae* Eskov & Zonstein, 2000 ..... Pa Baltic amber

† ***Electrocteniza*** **Eskov & Zonstein, 2000** ..... **Palaeogene**

46. *Electrocteniza sadilenkoi* Eskov & Zonstein, 2000 ..... Pa Baltic amber

Ummidia **Thorell, 1875** ..... **Palaeogene – Recent**

47. *Ummidia damzeni* Wunderlich, 2000 ..... Pa Baltic amber

48. *Ummidia malinowskii* Wunderlich, 2000 ..... Pa Baltic amber

Ummidia sp. *in* Wunderlich (2004*a*) ..... Pa Baltic amber

?Ummidia sp. *in* Wunderlich (2011*h*) ..... Pa Baltic amber

EUCTENIZIDAE Raven, 1985 ..... **Recent**

no fossil record

CYRTAUCHENIIDAE Simon, 1892*b* ..... **Neogene – Recent**

Bolostromus **Ausserer, 1875** ..... **Neogene – Recent**

49. *Bolostromus destructus* Wunderlich, 1988 ..... Ne Dominican amber

BARYCHELIDAE Simon, 1889*b* ..... **Neogene – Recent**

Psalistops **Simon, 1889*b*** ..... **Neogene – Recent**

50. *Psalistops hispaniolensis* Wunderlich, 1988* ..... Ne Dominican amber

THERAPHOSIDAE Thorell, 1870*a* ..... **Neogene – Recent**

= AVICULARIIDAE Simon, 1874

Theraphosidae gen. et sp. indet. *in* Dunlop *et al.* (2008) ..... Ne Chiapas amber

Hemirraghus **Simon, 1903** ..... **Neogene – Recent**

Hemirraghus sp. *in* García-Villafuerte (2008) ..... Ne Chiapas amber

† ***Ischnocolinopsis*** **Wunderlich, 1988** ..... **Neogene**

51. *Ischnocolinopsis acutus* Wunderlich, 1988* ..... Ne Dominican amber

NEMESIIDAE Simon, 1892*b* ..... **Cretaceous – Recent**

= PYCNOTHELIDAE Chamberlin, 1917

† ***Cretamygale*** **Selden, 2002** ..... **Cretaceous**

52. *Cretamygale chasei* Selden, 2002* ..... K Isle of Wight

† ***Eodiplurina*** **Petrunkevitch, 1922** ..... **Palaeogene**

Selden (2001) questioned this familial placement based on claw structure

53. *Eodiplurina cockerelli* Petrunkevitch, 1922* ..... Pa Florissant

MICROSTIGMATIDAE Roewer, 1942 ..... **Neogene – Recent**

= MICROMYGALIDAE Wunderlich, 2004*b*

† ***Parvomygale*** **Wunderlich, 2004*b*** ..... **Neogene**

54. *Parvomygale distincta* Wunderlich, 2004*b** ..... Ne Dominican amber

ACTINOPODIDAE Simon, 1892*b* ..... **Recent**

= ERIODONTIDAE C. L. Koch & Berendt, 1854

based on a generic synonym; listed in Bonnet as syn. of Clubionidae!

no fossil record

MIGIDAE Simon, 1892*b* ..... **Recent**

no fossil record

PARATROPIDIDAE Simon, 1889*a* ..... **Recent**

no fossil record

IDIOPIDAE Simon, 1892*b* ..... **Recent**

no fossil record

ARANEOMORPHAE Smith, 1902 ..... **Triassic – Recent**

ARANEOMORPHAE indet.

Araneomorphae indet. *in* Park *et al*. (2019) ..... K Jinju Form., Korea

† ***Argyrarachne* Selden *in* Selden *et al*., 1999** ..... **Triassic**

55. *Argyrarachne solitus* Selden *in* Selden *et al*., 1999* ..... Tr Virginia

† ***Triassaraneus* Selden *in* Selden *et al*., 1999** ..... **Triassic**

56. *Triassaraneus andersonorum* Selden *in* Selden *et al*., 1999* ..... Tr KwaZulu-Natal

HYPOCHILIDAE Marx, 1888 ..... **Recent**

= ECTATOSTICTIDAE Lehtinen, 1967

no fossil record

FILISTATIDAE Ausserer, 1867 ..... **Neogene – Recent**

***Antilloides* Brescovit, Sánchez-Ruiz & Alayón, 2016** ..... **Neogene – Recent**

57. *Antilloides didicostae* (Penney, 2005*a*) ..... Ne Dominican amber

SYNSPERMIATA Michalik & Ramírez, 2014 ..... **Jurassic – Recent**

TROGLORAPTORIDAE Griswold, Audisio & Ledford, 2012 ..... **Recent**

no fossil record

CAPONIIDAE Simon, 1890 ..... **Neogene – Recent**

= COLOPHONIDAE O. P.-Cambridge, 1874 [based on a generic homonym]

***Nops* MacLeay, 1839** ..... **Neogene – Recent**

Nops sp. *in* Wunderlich (1988) ..... Ne Dominican amber

58. *Nops lobatus* Wunderlich, 1988 ..... Ne Dominican amber

59. *Ariadna copalis* Wunderlich, 2008*a* ..... Qt ?Madagascan copal

i. = *Nops segmentatus* Wunderlich, 1988 ..... Ne Dominican amber

DYSDEROIDEA Bristowe, 1938 ..... **Cretaceous – Recent**

?Dysderoidea s. l. indet 1–2 in Wunderlich (2008*d*) ..... K Burmese amber

SEGESTRIIDAE Simon, 1893 ..... **Cretaceous – Recent**

?Segestriidae indet in Wunderlich (2008d) ..... K Burmese amber

***Ariadna* Audouin, 1826** ..... **Palaeogene – Recent**

60. *Ariadna copalis* Wunderlich, 2008*a* ..... Qt ?Madagascan copal
61. *Ariadna copalis* Wunderlich, 2008*a* ..... Qt ?Madagascan copal
62. *Ariadna defuncta* Wunderlich, 2004*c* ..... Pa Bitterfeld amber
63. *Ariadna hintzei* Wunderlich, 2004*as* ..... Qt Madagascan copal
64. *Ariadna ovalis* Wunderlich, 2008*a* ..... Pa Baltic amber
65. *Ariadna parva* Wunderlich, 2008*a* ..... Pa Baltic amber
66. *Ariadna paucispinosa* Wunderlich, 1988 ..... Ne Dominican amber
67. *Ariadna resinae* Hickman, 1957 ..... Ne? Australian copal

?*Ariadna* sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Denticulsegestria* Wunderlich, 2015*b*** ..... **Cretaceous**

68. *Denticulsegestria rugosa* Wunderlich, 2015*b** ..... K Burmese Amber

† ***Jordariadna* Wunderlich, 2015*b*** ..... **Cretaceous**

69. *Jordanariadna amissiocoli* (Wunderlich, 2008d)* ..... K Jordanian Amber

† ***Jordansegestria* Wunderlich 2015*b*** ..... **Cretaceous**

70. *Jordansegestria detruneo* Wunderlich, 2015*b** ..... K Jordanian Amber

† ***Lebansegestria* Wunderlich, 2008*d*** ..... **Cretaceous**

71. *Lebansegestria azari* Wunderlich, 2008*d** ..... K Lebanese amber

† ***Microsegestria* Wunderlich & Milki, 2004** ..... **Cretaceous**

72. *Microsegestria poinari* Wunderlich & Milki, 2004* ..... K Lebanese amber

† ***Myansegestria* Wunderlich, 2015*b*** ..... **Cretaceous**

73. *Myansegestria caederens* Wunderlich 2015*b* ..... K Burmese Amber
74. *Myansegestria engin* Wunderlich, 2015*b** ..... K Burmese Amber

† ***Palaeosegestria* Penney, 2004*a*** ..... **Cretaceous**

75. *Palaeosegestria lutzzii* Penney, 2004*a** ..... K New Jersey amber

† ***Parvosegestria* Wunderlich, 2015*b*** ..... **Cretaceous**

76. *Parvosegestria longitibialis* Wunderlich, 2015*b* ..... K Burmese Amber
77. *Parvosegestria obscura* Wunderlich, 2015*b** ..... K Burmese Amber
78. *Parvosegestria pintgu* Wunderlich, 2015*b* ..... K Burmese Amber
79. *Parvosegestria triplex* Wunderlich, 2015*b* ..... K Burmese Amber

Segestria* Latreille, 1804*a ..... **Cretaceous – Recent**

80. *Segestria cristata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
81. *Segestria flexio* Wunderlich, 2004*c* ..... Pa Baltic amber
82. *Segestria mortalis* Wunderlich 2004*c* ..... Pa Baltic amber
83. *Segestria plicata* Petrunkevitch, 1950 ..... Pa Baltic amber
84. *Segestria scudderi* Petrunkevitch, 1922 ..... Pa Florissant
85. *Segestria secessa* Scudder, 1890*a* ..... Pa Florissant
86. *Segestria succinei* Berland, 1939 ..... Pa Baltic amber
87. *Segestria tomentosa* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

i. = *Segestria plicata* Petrunkevitch, 1950 [provisional] Pa Baltic amber

Segestria sp. *in* Penney (2002) ..... K New Jersey amber

Segestria sp. *in* Wunderlich (2004*c*) ..... Pa Baltic amber

Segestria sp. *in* Selden (2014*b*) ..... Pa Isle of Wight

† ***Vetsegestria*** **Wunderlich, 2004*c*** ..... **Palaeogene**

88. *Vetsegestria quinquespinosa* Wunderlich, 2004*c** ..... Pa Baltic / Bitter. Amber

OONOPIDAE Simon, 1890 ..... **Cretaceous – Recent**

Oonopidae gen. et sp. *in* Penney (2002) ..... K New Jersey amber

† ***Burmorchestina*** **Wunderlich, 2008*a*** ..... **Cretaceous**

89. *Burmorchestina acuminata* Wunderlich, 2017*c* ..... K Burmese amber

90. *Burmorchestina biangulata* Wunderlich, 2017*c* ..... K Burmese amber

91. *Burmorchestina plana* Wunderlich, 2017*c* ..... K Burmese amber

92. *Burmorchestina pulcher* Wunderlich, 2008*a** ..... K Burmese amber

93. *Burmorchestina pulcheroides* Wunderlich, 2017*c* ..... K Burmese amber

94. *Burmorchestina tuberosa* Wunderlich, 2017*c* ..... K Burmese amber

Burmorchestina sp. indet. *in* Wunderlich (2017*c*) ..... K Burmese amber

† ***Canadaorchestina*** **Wunderlich, 2008a** ..... **Cretaceous**

95. *Canadaorchestina albertenis* (Penney, 2006*a*)* ..... K Canadian amber

† ***Fossilopaea*** **Wunderlich, 1988** ..... **Neogene**

96. *Fossilopaea sulci* Wunderlich, 1988* ..... Ne Dominican amber

Heteroonops **Dalmas, 1916** ..... **Neogene – Recent**

Heteroonops sp. *in* Wunderlich (1988) ..... Ne Dominican amber

Opopaea **Simon, 1891** ..... **?Neogene – Recent**

?*Opopaea* sp. *in* Wunderlich (1988) ..... Ne Dominican amber

Orchestina **Simon, 1882** ..... **Cretaceous – Recent**

97. *Orchestina* (*Baltorchestina*) *angulata* Wunderlich, 2012*f*

[replacement name] ..... Pa Bitterfeld amber

i. = *Orchestina* (*B.*) *rectangulata* Wunderlich, 2011*h* [preoccupied]

98. *Orchestina baltica* Petrunkevitch, 1942 ..... Pa Baltic amber

99. *Orchestina* (*Baltorchestina*) *bitterfeldensis* Wunderlich, 2008*a* ..... Pa Bitterfeld amber

100. *Orchestina breviembolus* Wunderlich, 1981 ..... Pa Baltic amber

101. *Orchestina* (*Baltorchestina*) *brevis* Wunderlich, 2008*a* ..... Pa Baltic / Bitter. Amber

102. *Orchestina crassiembolus* Wunderlich, 1981 ..... Pa Baltic amber

103. *Orchestina* (*Baltorchestina*) *crassipatellaris* Wunderlich, 1981 ..... Pa Baltic amber

104. *Orchestina* (*Baltorchestina*) *crassitibialis* Wunderlich, 1981 ..... Pa Baltic amber

105. *Orchestina* (*Baltorchestina*) *colchembolus* Wunderlich, 1981 ..... Pa Baltic amber

106. *Orchestina colombiensis* Wunderlich, 2004*at* ..... Qt Colombian copal

107. *Orchestina dominicana* Wunderlich, 1981 ..... Ne Dominican amber

108. *Orchestina forceps* Wunderlich, 1981 ..... Pa Baltic amber

109. *Orchestina* (*Baltorchestina*) *forfex* Wunderlich, 2011*h* ..... Pa Baltic amber

110. *Orchestina* (*Baltorchestina*) *furca* Wunderlich, 1981 ..... Pa Baltic amber

111. *Orchestina fushunensis* Wunderlich, 2004*au* ..... Pa Fu Shun amber
112. *Orchestina gappi* Saupe *et al*., 2012 ..... K Archingeay amber
113. *Orchestina gracilitibialis* Wunderlich, 2004c ..... Pa Baltic amber
114. *Orchestina* (*Baltorchestina*) *imperialis* Wunderlich, 1981 ..... Pa Baltic amber
115. *Orchestina kenyana* Wunderlich, 1981 ..... Qt East African copal
116. *Orchestina longimana* Wunderlich, 1981 ..... Qt East African copal
117. *Orchestina madagascariensis* Wunderlich, 2004*as* ..... Qt Madagascan copa
118. *Orchestina mortua* Petrunkevitch, 1971 ..... Ne Chiapas amber
119. *Orchestina* (*Baltorchestina*) *multisetae* Wunderlich, 2008*a* ..... Pa Baltic amber
120. *Orchestina* (*Gallorchestina*) *parisiensis* Penney, 2007*b* ..... Pa Le Quesnoy amber
121. *Orchestina* (*Baltorchestina*) *perfecta* Wunderlich, 2008*a* ..... Pa Baltic amber
122. *Orchestina pusilla* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
123. *Orchestina rabagensis* Saupe *et al*., 2012 ..... K El Soplao amber
124. *Orchestina* (*Baltorchestina*) *rectangulata* Wunderlich, 2008*a* ..... Pa Baltic amber
125. *Orchestina sakhalinensis* Marusik, Perkovsky & Eskov, 2018 ..... Pa Sakhalinian amber
126. *Orchestina* (*Baltorchestina*) *sternalis* Wunderlich, 2008*a* ..... Pa Baltic amber
127. *Orchestina tibialis* Wunderlich, 1988 ..... Ne Dominican amber
128. *Orchestina truncata* Wunderlich, 2004*at* ..... Qt Colombian copal
129. *Orchestina tuberosa* Wunderlich, 1981 ..... Pa Baltic amber

Orchestina sp. *in* Nishikawa (1974) ..... Qt Mizunami copal

Orchestina sp. *in* Penney (2006) ..... K Burmese amber

Orchestina sp. *in* Saupe *et al*. (2012) ..... K Álava amber

Orchestina sp. *in* Soriano *et al*. (2010) ..... K San Just amber

Orchestina sp. *in* Wunderlich (2011*h*) ..... Pa Bitterfeld amber

***Stenoonops* Simon, 1891** ..... **Palaeogene – Recent**

130. *Stenoonops incertus* (Wunderlich, 1988) ..... Ne Dominican amber
131. ?*Stenoonops rugosus* Wunderlich, 2004*c* ..... Pa Bitterfeld amber
132. *Stenoonops seldeni* (Penney, 2000) ..... Ne Dominican amber

ORSOLOBIDAE Cooke, 1965 ..... **Recent**

no fossil record

† **PLUMORSOLIDAE Wunderlich, 2008d** ..... **Cretaceous**

?Plumorsolidae indet. *in* Wunderlich (2008*d*) ..... K Burmese amber

?Plumorsolidae indet. *in* Wunderlich (2011*i*) ..... K Burmese amber

† ***Burmorsolus* Wunderlich, 2015*b*** ..... **Cretaceous**

133. *Burmorsolus nonplumosus* Wunderlich, 2015*b** ..... K Burmese amber

Burmorsolus sp. indet. *in* Wunderlich (2015*b*) ..... K Burmese amber

† ***Plumorsolus* Wunderlich, 2008*d*** ..... **Cretaceous**

134. *Plumorsolus gondwanensis* Wunderlich, 2008*d* ..... K Lebanese amber

† ***Pseudorsolus* Wunderlich, 2017*c*** ..... **Cretaceous**

135. *Pseudorsolus crassus* (Wunderlich, 2015*b*)* ..... K Burmese amber

DYSDERIDAE C. L. Koch, 1837 ..... **Palaeogene – Recent**

† ***Dasumiana* Wunderlich, 2004*c*** ..... **Palaeogene**

136. *Dasumiana emicans* Wunderlich, 2004*c** ..... Pa Baltic amber

137. ?*Dasumiana subita* (Petrunkevitch, 1958) ..... Pa Baltic amber

138. *Dasumiana valga* Wunderlich, 2004*c* ..... Pa Baltic amber

***Dysdera* Latreille, 1804** ..... **Palaeogene – Recent**

139. *Dysdera dilatata* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang

***Harpactea* Bristowe, 1939** ..... **Palaeogene – Recent**

140. *Harpactea communis* Wunderlich, 2004*c* ..... Pa Baltic amber

141. *Harpactea extincta* Petrunkevitch, 1950 ..... Pa Baltic amber

142. *Harpactea hombergi* (Scopoli, 1763) **[Recent]** ..... Qt England

143. *Harpactea longibulbus* Wunderlich, 2011*h* ..... Pa Baltic amber

144. *Harpactea tersa* (C. L. Koch & Berendt, 1854) [provisional transfer] ..... Pa Baltic amber

Harpactea sp. *in* Wunderlich (2011*h*) ..... Pa Bitterfeld amber

† ***Segistriites* Straus, 1967** ..... **Neogene**

145. *Segistriites cromei* Straus, 1967* ..... Ne Willershausen

Dysderidae?

† ***Mistura* Petrunkevitch, 1971** ..... **Neogene**

146. *Mistura perplexa* Petrunkevitch, 1971* ..... Ne Chiapas amber

SCYTODOIDEA Blackwall, 1864 ..... **Cretaceous – Recent**

SICARIIDAE Keyserling, 1880*a* ..... **Neogene – Recent**

= LOXOSCELIDAE Simon, 1893

***Loxosceles* Heineken & Lowe, 1832** ..... **Neogene – Recent**

147. *Loxosceles aculicaput* Wunderlich, 2004*c* ..... Ne Dominican amber

148. *Loxosceles defecta* Wunderlich, 1988 ..... Ne Dominican amber

149. *Loxosceles deformis* Wunderlich, 1988 ..... Ne Dominican amber

Loxosceles sp. *in* Wunderlich (1988) ..... Ne Dominican amber

DRYMUSIDAE Simon, 1893 ..... **Recent**

no fossil record

PERIEGOPIDAE Simon, 1893 ..... **Recent**

no fossil record

OCHYROCERATIDAE Fage, 1912 *s. l.* [incl. PSILODERCINAE] ..... **Cretaceous – Recent**

Wunderlich (2015*b*, 2017*c*) recognised Psilodercidae as a distinct family

?Eopsilodercidae indet. 1–3 *in* Wunderlich (2008*d*) ..... K Burmese amber

† ***Aculeatosoma* Wunderlich, 2017*c*** ..... **Cretaceous**

150. *Aculeatosoma pyritmutatio* Wunderlich, 2017*c* ..... K Burmese amber

† ***Arachnolithulus* Wunderlich, 1988** ..... **Neogene**

151. *Arachnolithulus longipes* Wunderlich, 2004*c* ..... Ne Dominican amber

152. *Arachnolithulus pygmaeus* Wunderlich, 1988* ..... Ne Dominican amber

?*Arachnolithulus* sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Priscaleclercera* Wunderlich, 2017*c*** ..... **Cretaceous**

153. *Priscaleclercera brevispinae* Wunderlich, 2017*c* ..... K Burmese amber

154. *Priscaleclercera ellenbergeri* Wunderlich, 2015*b** ..... K Burmese amber

155. *Priscaleclercera longissipes* (Wunderlich, 2012*d*) ..... K Burmese amber

156. *Priscaleclercera paucispinae* Wunderlich, 2017*c* ..... K Burmese amber

157. *Priscaleclercera sexaculeata* (Wunderlich, 2015*b*) ..... K Burmese amber

158. *Priscaleclercera spicula* (Wunderlich, 2012*d*) ..... K Burmese amber

Priscaleclercera sp. indet. *in* (Wunderlich, 2015*b*) ..... K Burmese amber

Priscaleclercera sp. indet. *in* (Wunderlich, 2017*c*) ..... K Burmese amber

† ***Propterpsiloderces* Wunderlich, 2015*b*** ..... **Cretaceous**

159. *Propterpsiloderces longisetae* Wunderlich, 2015*b** ..... K Burmese amber

† EOPSILODERCIDAE Wunderlich, 2008*d*

Wunderlich (2012*d*) recognised this as a junior synonym of a family Psilodercidae, but Wunderlich (2015*b*) subsequently reinstated the family

† ***Eopsiloderces* Wunderlich, 2008*d*** ..... **Cretaceous**

160. *Eopsiloderces filiformis* (Wunderlich, 2012*d*) ..... K Burmese amber

161. *Eopsiloderces loxosceloides* Wunderlich, 2008*d** ..... K Burmese amber

162. *Eopsiloderces serenitas* Wunderlich, 2015*b* ..... K Burmese amber

Eopsiloderces sp. indet. *in* Wunderlich (2015*b*) ..... K Burmese amber

† ***Loxoderces* Wunderlich, 2017*c*** ..... **Cretaceous**

163. *Loxoderces curvatus* Wunderlich, 2017*c* ..... K Burmese amber

164. *Loxoderces longicymbium* Wunderlich, 2017*c** ..... K Burmese amber

165. *Loxoderces rectus* Wunderlich, 2017*c* ..... K Burmese amber

† ***Praepholcus* Wunderlich, 2017*c*** ..... **Cretaceous**

166. *Praepholcus huberi* Wunderlich, 2017*c** ..... K Burmese amber

SCYTODIDAE Blackwall, 1864 ..... **Cretaceous – Recent**

Syctodidae sp. 1–2 *in* Wunderlich (2004*b*) ..... Pa Bitterfeld amber

***Scytodes* Latreille, 1804a** ..... **?Cretaceous – Recent**

167. ?*Scytodes hani* Wunderlich, 2012*d* ..... K Jordanian amber

168. *Scytodes marginalis* Wunderlich, 2004*as* ..... Qt Madagascan copal

169. *Scytodes piliformis* Wunderlich, 1988 ..... Ne Dominican amber

170. *Scytodes planithorax* Wunderlich, 1988 ..... Ne Dominican amber

171. *Scytodes stridulans* Wunderlich, 1988 ..... Ne Dominican amber

172. *Scytodes weitschati* Wunderlich, 1993*a* ..... Pa Baltic amber

Scytodes sp. *in* Wunderlich (1988) ..... Ne Dominican amber

Scytodes sp. *in* Wunderlich (2011*h*) ..... Pa Baltic amber

LOST TRACHEA CLADE

TETRABLEMMIDAE O. P.-Cambridge, 1873 ..... **Cretaceous – Recent**

= PHAEDOMOIDAE Thorell, 1890 [based on a generic homonym]

= PACULLIDAE Simon, 1894

Tetrablemmidae gen. indet. *in* Wunderlich (2012*d*) ..... K Burmese amber

Tetrablemmidae ?gen. sp. indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

Tetrablemminae indet. in Wunderlich, 2017*c* ..... K Burmese amber

† ***Balticoblemma* Wunderlich, 2004*c*** ..... **Palaeogene**

173. *Balticoblemma unicorniculum* Wunderlich, 2004*c** ..... Pa Baltic amber

† ***Bicornoculus* Wunderlich, 2015*b*** ..... **Cretaceous**

174. *Bicornoculus levis* Wunderlich, 2015*b** ..... K Burmese amber

?*Bicornoculus* sp. *in* Wunderlich, 2015*b* ..... K Burmese amber

† ***Brignoliblemma* Wunderlich, 2017*c*** ..... **Cretaceous**

175. *Brignoliblemma bizarre* Wunderlich, 2017*c* ..... K Burmese amber

176. *Brignoliblemma nala* Wunderlich, 2017*c** ..... K Burmese amber

177. *Brignoliblemma paranala* Wunderlich, 2017*c* ..... K Burmese amber

† ***Cymbioblemma* Wunderlich, 2017*c*** ..... **Cretaceous**

178. *Cymbioblemma corniger* Wunderlich, 2017*c** ..... K Burmese amber

† ***Electroblemma* Selden, Zhang & Ren, 2016** ..... **Cretaceous**

179. *Electroblemma bifida* Selden, Zhang & Ren, 2016* ..... K Burmese amber

† ***Eogamasomorpha* Wunderlich, 2008*d*** ..... **Cretaceous**

= † *Eoscaphiella* Wunderlich, 2011i

180. ?*Eogamasomorpha clara* Wunderlich, 2015*b* ..... K Burmese amber

181. *Eogamasomorpha hamata* Wunderlich, 2017*c* ..... K Burmese amber

182. *Eogamasomorpha nubila* Wunderlich, 2008*d** ..... K Burmese amber

183. *Eogamasomorpha ohlhoffi* (Wunderlich, 2011*i*) ..... K Burmese amber

184. ?*Eogamasomorpha unicornis* Wunderlich, 2017*c* ..... K Burmese amber

Eogamasomorpha sp. indet. *in* Wunderlich (2017*c*) ..... K Burmese amber

† ***Furcembolus* Wunderlich, 2008*d*** ..... **Cretaceous**

= † *Praeterpaculla* Wunderlich, 2015*b*

185. *Furcembolus andersoni* Wunderlich, 2008*d** ..... K Burmese amber

186. *Furcembolus armatura* (Wunderlich, 2015*b*) ..... K Burmese amber

187. *Furcembolus biacuta* (Wunderlich, 2015*b*) ..... K Burmese amber

188. *Furcembolus crassitibia* Wunderlich, 2017*c* ..... K Burmese amber

189. *Furcembolus dissolata* (Wunderlich, 2015*b*) ..... K Burmese amber

190. *Furcembolus equester* (Wunderlich, 2015*b*) ..... K Burmese amber

191. *Furcembolus grossa* Wunderlich, 2017*c* ..... K Burmese amber

192. *Furcembolus longior* Wunderlich, 2017*c* ..... K Burmese amber

193. *Furcembolus tuberosa* (Wunderlich, 2015*b*)* ..... K Burmese amber

† ***Longissithorax* Wunderlich, 2017*c*** ..... **Cretaceous**

194. *Longissithorax myanmarensis* Wunderlich, 2017*c** K Burmese amber

† ***Longithorax* Wunderlich, 2017*c*** **Cretaceous**

195. *Longithorax furca* Wunderlich, 2017*c** K Burmese amber

***Monoblemma* Gertsch, 1941** **Neogene**

196. ?*Monoblemma spinosum* Wunderlich, 1988 Ne Dominican amber

† ***Palpalpaculla* Wunderlich, 2017*c*** **Cretaceous**

197. *Palpalpaculla pulcher* Wunderlich, 2017*c** K Burmese amber

† ***Saetosoma* Wunderlich, 2012*d*** **Cretaceous**

198. *Saetosoma filiembolus* Wunderlich, 2012*d** K Burmese amber

† ***Uniscutosoma* Wunderlich, 2015*b*** **Cretaceous**

199. *Uniscutosoma aberrans* Wunderlich, 2015*b** K Burmese amber

PLECTREURIDAE Simon, 1893 **Jurassic – Recent**

† ***Eoplectreurys* Selden & Huang, 2010** **Jurassic**

200. *Eoplectreurys gertschi* Selden & Huang, 2010* J Daohugou

† ***Montsecarachne* Selden, 2014*a*** **Cretaceous**

201. *Montsecarachne amicorum* Selden, 2014*a** K El Montsec

erroneously cited as *amicus* in the abstract

† ***Palaeoplectreurys* Wunderlich, 2004c** **Palaeogene**

202. *Palaeoplectreurys baltica* Wunderlich, 2004*c** Pa Baltic amber

***Plectreurys* Simon, 1893** **Neogene – Recent**

203. *Plectreurys pittfieldi* Penney, 2009 Ne Dominican amber

DIGUETIDAE F. O. P.-Cambridge, 1899 **Recent**

no fossil record

PHOLCIDAE C. L. Koch, 1851 **Palaeogene – Recent**

Pholcidae sp. 1–2 *in* Wunderlich (2004*b*) Pa Baltic amber

Pholcidae sp. *in* Wunderlich (2004*au*) Pa Fu Shun amber

***Coryssocnemis* Simon, 1893** **Neogene – Recent**

204. ?*Coryssocnemis velteni* Wunderlich, 2004*c* Ne Dominican amber

***Leptopholcus* Simon, 1893** **Neogene**

205. *Leptopholcus kiskeya* Huber & Wunderlich, 2006 Ne Dominican amber

***Metagonia* Simon, 1893** **Neogene – Recent**

206. *Metagonia esquincacanoi* García-Villafuerte, 2019 Ne Chiapas amber

***Modisimus* Simon, 1893** **Neogene – Recent**

207. *Modisimus calcar* Wunderlich, 1988 Ne Dominican amber

208. *Modisimus calcaroides* Wunderlich, 1988 Ne Dominican amber

209. *Modisimus crassifemoralis* Wunderlich, 1988 Ne Dominican amber

210. *Modisimus oculatus* Wunderlich, 1988 Ne Dominican amber

211. *Modisimus tuberosus* Wunderlich, 1988 Ne Dominican amber

Modisimus sp. *in* Wunderlich (1988) Ne Dominican amber

† ***Paraspermophora*** **Wunderlich, 2004c** ..... **Palaeogene**

212. *Paraspermophora bitterfeldensis* Wunderlich, 2004*c* ..... Pa Bitterfeld amber

213. *Paraspermophora perplexa* Wunderlich, 2004c* ..... Pa Baltic amber

Paraspermophora sp. *in* Wunderlich (2004*c,* 2011*h*) ..... Pa Baltic / Bitt. amber

Pholcophora **Banks, 1896** ..... **Neogene – Recent**

214. *Pholcophora brevipes* Wunderlich, 1988 ..... Ne Dominican amber

215. *Pholcophora gracilis* Wunderlich, 1988 ..... Ne Dominican amber

216. *Pholcophora longicornis* Wunderlich, 1988 ..... Ne Dominican amber

Quamtana **Huber, 2003** ..... **Palaeogene – Recent**

217. *Quamtana huberi* Penney, 2007*a* ..... Pa Le Quesnoy amber

† ***Serratochorus*** **Wunderlich, 1988** ..... **Neogene**

218. *Serratochorus pygmaeus* Wunderlich, 1988* ..... Ne Dominican amber

GRADUNGULIDAE Forster, 1955 ..... **Recent**

no fossil record

CY SPIGOT CLADE

† **PRAETERLEPTONETIDAE Wunderlich 2008*d*** ..... **Cretaceous**

Praeterleptonetidae indet. *in* Wunderlich (2008*d*) ..... K Burmese amber

?Praeterleptonetidae indet. *in* Wunderlich 2015*b* ..... K Burmese amber

† ***Autotomiana*** **Wunderlich, 2015*b*** ..... **Cretaceous**

219. *Autotomiana hirsutipes* Wunderlich, 2015*b** ..... K Burmese amber

?*Autotomiana* sp. indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

† ***Biapophyses*** **Wunderlich, 2015*b*** ..... **Cretaceous**

220. *Biapophyses beate* Wunderlich, 2015*b** ..... K Burmese amber

noted (as *B. beatae* [*sic*]) by Wunderlich & Müller (2018) as a possible plesion taxon in the leptonetoid–araneoid branch

† ***Palaeohygropoda*** **Penney, 2004*c*** ..... **Cretaceous**

221. *Palaeohygropoda myanmarensis* Penney, 2004*c** ..... K Burmese amber

† ***Praeterleptoneta*** **Wunderlich, 2008*d*** ..... **Cretaceous**

222. *Praeterleptoneta spinipes* Wunderlich, 2008*d** ..... K Burmese amber

† **PROTOARANEOIDIDAE Wunderlich in Wunderlich & Müller, 2018** ..... **Cretaceous**

Protoaraneoididae indet. *in* Wunderlich & Müller (2018) ..... K Burmese amber

† ***Praeteraneoides*** **Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

genus first mentioned as *Prateraneoides* [*sic*], but correctly spelt in the species descriptions

223. *Praeteraraneoides bifurcatum* Wunderlich *in* Wunderlich & Müller, 2018* K Burmese amber

224. *Praeteraraneoides bipartitum* Wunderlich *in* Wunderlich & Müller, 2018 K Burmese amber

225. *Praeteraraneoides leni* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

† ***Proaraneoides*** **Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

226. *Proaraneoides cribellatum* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Protoaraneoides*** **Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

227. *Protoaraneoides longispina* Wunderlich *in* Wunderlich & Müller, 2018* K Burmese amber

† ***Spinipalpitibia* Wunderlich, 2015*b*** **Cretaceous**

228. *Spinipalpitibia hirsuta* Wunderlich *in* Wunderlich & Müller, 2018 K Burmese amber

229. *Spinipalpitibia maior* Wunderlich, 2015*b** K Burmese amber

Spinipalpitibia sp. *in* Wunderlich & Müller (2018) K Burmese amber

† **PHOLCOCHYROCERIDAE Wunderlich, 2008*d* (n. stat. 2012*d*)** **Cretaceous**

† ***Parvibulbus* Wunderlich *in* Wunderlich & Müller, 2018** **Cretaceous**

230. *Parvibulbus incompletus* Wunderlich *in* Wunderlich & Müller, 2018 K Burmese amber

† ***Pholcochyrocer* Wunderlich, 2008*d*** **Cretaceous**

231. *Pholcochyrocer altipecten* Wunderlich, 2017*c* K Burmese amber

232. ?*Pholcochyrocer baculum* Wunderlich, 2012*d* K Burmese amber

233. *Pholcochyrocer calidum* Wunderlich *in* Wunderlich & Müller, 2018 K Burmese amber

234. *Pholcochyrocer guttulaequae* Wunderlich, 2008*d** K Burmese amber

235. *Pholcochyrocer pecten* Wunderlich, 2012*d* K Burmese amber

236. *Pholcochyrocer vermiculus* Wunderlich *in* Wunderlich & Müller, 2018 K Burmese amber

† ***Spinicreber* Wunderlich, 2015*b*** **Cretaceous**

237. *Spinicreber antiquus* Wunderlich, 2015*b** K Burmese amber

† ***Spinipalpus* Wunderlich, 2015*b*** **Cretaceous**

238. *Spinipalpus vetus* Wunderlich, 2015*b** K Burmese amber

LEPTONETIDAE Simon, 1890 **Cretaceous – Recent**

† ***Eoleptoneta* Wunderlich, 1991** **Palaeogene**

239. *Eoleptoneta curvata* Wunderlich, 2004*c* Pa Bitterfeld amber

240. *Eoleptoneta duocalcar* Wunderlich, 2004*c* Pa Baltic amber

241. *Eoleptoneta kutscheri* Wunderlich, 1991* Pa Bitterfeld amber

242. *Eoleptoneta multispinae* Wunderlich, 2011*h* Pa Baltic amber

243. *Eoleptoneta pseudoarticulata* Wunderlich, 2011*h* Pa Baltic amber

244. *Eoleptoneta similis* Wunderlich, 2004*c* Pa Baltic amber

† ***Oligoleptoneta* Wunderlich 2004*c*** **Palaeogene**

245. *Oligoleptoneta altoculus* Wunderlich 2004*c** Pa Baltic amber

246. *Oligoleptoneta cymbiospina* Wunderlich, 2011*h* Pa Baltic amber

† ***Palaeoleptoneta* Wunderlich 2012*d*** **Cretaceous**

247. *Palaeoleptoneta calcar* Wunderlich, 2012*d** K Burmese amber

248. *Palaeoleptoneta crus* Wunderlich, 2017*c* K Burmese amber

249. *Palaeoleptoneta nils* Wunderlich *in* Wunderlich & Müller, 2018 K Burmese amber

250. *Palaeoleptoneta thilo* Wunderlich *in* Wunderlich & Müller, 2018 K Burmese amber

Paleoleptoneta sp. indet. *in* Wunderlich (2017*c*) K Burmese amber

AUSTROCHILIDAE Zapfe, 1955 **Recent**

= THAIDIDAE Lehtinen, 1967

= HICKMANIIDAE Lehtinen, 1967

no fossil record

TELEMIDAE Fage, 1913 ..... **?Cretaceous – Recent**

***Telema* Simon, 1882** ..... **Palaeogene – Recent**

251. ?*Telema moritzi* Wunderlich, 2004*c* ..... Pa Baltic / Bitt. amber

***Telemofila* Wunderlich, 1995** ..... **?Cretaceous – Recent**

252. ?*Telemofila crassifemoralis* Wunderlich, 2017*c* ..... K Burmese amber

PALPIMANOIDEA Thorell, 1870a ..... **Jurassic – Recent**

Palpimanoidea *incerate sedis in* Park *et al*. (2019) ..... K Jinju Form., Korea

family uncertain

† ***Seppo* Selden & Dunlop, 2014** ..... **Jurassic**

253. *Seppo koponeni* Selden & Dunlop, 2014* ..... J Grimmen, Germany

Wunderlich (2015*b*) suggested possible affinities to Araneidae

† ***Sinaranea* Selden, Huang & Ren, 2008** ..... **Jurassic**

254. *Sinaranea metaxyostraca* Selden, Huang & Ren, 2008* ..... J Daohugou, China

MECYSMAUCHENIIDAE Simon, 1895 ..... **Cretaceous – Recent**

† ***Archaemecys* Saupe & Selden, 2009** ..... **Cretaceous**

255. *Archaemecys arcantiensis* Saupe & Selden, 2009 ..... K Charente amber

Wunderlich (2015*b*) suggested that this could be an archaeid (Archaeinae)

HUTTONIIDAE Simon, 1893 ..... **Cretaceous – Recent**

unnamed genus and species in Penney & Selden (2006) ..... K Manitoban amber

† **MICROPALPIMANIDAE Wunderlich, 2008*d*** ..... **Cretaceous**

† ***Micropalpimanus* Wunderlich, 2008*d*** ..... **Cretaceous**

Micropalpimanus sp. indet *in* Wunderlich (2012*d*) ..... K Burmese amber

256. *Micropalpimanus poinari* Wunderlich, 2008*d* ..... K Burmese amber

PALPIMANIDAE Thorell, 1870*a* ..... **Cretaceous – Recent**

= OTITHOPOIDAE Thorell, 1869 [younger name protected by useage]

= CHERSIDAE Canestrini & Pavesi, 1870

Palpimanidae indet. *in* Wunderlich, 2017*c* ..... K Burmese amber

***Otiothops* MacLeay, 1839** ..... **Neogene – Recent**

Otiothops sp. 1–2 *in* Wunderlich (1988) ..... Ne Dominican amber

† **LAGONOMEGOPIDAE Eskov & Wunderlich, 1995** ..... **Cretaceous**

= † GRANDOCULIDAE Penney, 2011

Lagonomegopidae indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

Lagonomegopidae gen et sp. indet. *in* Wunderlich, 2017*c* ..... K Burmese amber

† ***Albiburmops* Wunderlich, 2017*c*** ..... **Cretaceous**

257. *Albiburmops annulipes* Wunderlich, 2017*c** ..... K Burmese amber

† ***Archaelagonops*** **Wunderlich, 2012*d*** ..... **Cretaceous**

258. *Archaelagonops propinquus* Wunderlich, 2015*b*..... K Burmese amber

259. *Archaelagonops salticoides* Wunderlich, 2012*d** ..... K Burmese amber

260. *Archaelagonops scorsum* Wunderlich, 2015*b*..... K Burmese amber

Archaelagonops sp. indet. *in* Wunderlich (2015*b*) ..... K Burmese amber

† ***Burlagonomegops*** **Penney, 2005*b*** ..... **Cretaceous**

261. *Burlagonomegops alavensis* Penney, 2006*b* ..... K Álava amber

262. *Burlagonomegops eskovi* Penney, 2005*b** ..... K Burmese amber

† ***Cymbiolagonops*** **Wunderlich, 2015*b***..... **Cretaceous**

263. *Cymbiolagonops cymbiocalcar* Wunderlich, 2015*b**..... K Burmese amber

† ***Grandoculus*** **Penney, 2004*b*** [no longer accepted as a separate family] ..... **Cretaceous**

264. *Grandoculus chemahawinensis* Penney, 2004*b** ..... K Canadian amber

† ***Jinjumegops*** **Park, Nam & Selden, 2019** ..... **Cretaceous**

265. *Jinjumegops dalingwateri* Park, Nam & Selden, 2019 *..... K Jinju Form., Korea

† ***Koreamegops*** **Park, Nam & Selden, 2019** ..... **Cretaceous**

266. *Koreamegops samsiki* Park, Nam & Selden, 2019 *..... K Jinju Form., Korea

† ***Lagonoburmops*** **Wunderlich, 2012*d*** ..... **Cretaceous**

267. *Lagonoburmops plumosus* Wunderlich, 2012*d** ..... K Burmese amber

† ***Lagonomegops*** **Eskov & Wunderlich, 1995** ..... **Cretaceous**

268. *Lagonomegops americanus* Penney, 2005*b* ..... K New Jersey amber

269. *?Lagonomegops cor* Pérez-de la Fuente, Saupe & Selden, 2015..... K Álava amber

270. *Lagonomegops sukatchevae* Eskov & Wunderlich, 1995* ..... K Taimyr amber

271. ?*Lagonomegops tuber* Wunderlich, 2015*b* ..... K Burmese amber

† ***Lineaburmops*** **Wunderlich, 2015*b*** ..... **Cretaceous**

272. *Lineaburmops beigeli* Wunderlich, 2015*b** ..... K Burmese amber

273. *Lineaburmops hirsutipes* Wunderlich, 2015*b* ..... K Burmese amber

274. *Lineaburmops maculatus* Wunderlich, 2017*c* ..... K Burmese amber

† ***Myanlagonops*** **Wunderlich, 2012*d*** ..... **Cretaceous**

275. *Myanlagonops gracilipes* Wunderlich, 2012*d** ..... K Burmese amber

† ***Parviburmops*** **Wunderlich, 2015*b*** ..... **Cretaceous**

276. ?*Parviburmops bigibber* Wunderlich, 2015*b* ..... K Burmese amber

277. *Parviburmops brevipalpus* Wunderlich, 2015*b**..... K Burmese amber

† ***Paxillomegops*** **Wunderlich, 2015*b*** ..... **Cretaceous**

278. ?*Paxillomegops brevipes* Wunderlich, 2015*b* ..... K Burmese amber

279. ?*Paxillomegops cornutus* Wunderlich, 2017*c* ..... K Burmese amber

280. *Paxillomegops longipes* Wunderlich, 2015*b** ..... K Burmese amber

† ***Picturmegops*** **Wunderlich, 2015*b*** ..... **Cretaceous**

281. *Picturmegops signatus* Wunderlich, 2015*b** ..... K Burmese amber

† ***Planimegops*** **Wunderlich, 2017*c***..... **Cretaceous**

282. *Planimegops parvus* Wunderlich, 2017*c** ..... K Burmese amber

† ***Soplaogonomegops*** **Pérez-de la Fuente, Saupe & Selden** ..... **Cretaceous**

Wunderlich (2015*b*) tentatively synonymised this genus with *Archaelagonops*

283. *Soplaogonomegops unzuei* Pérez-de la Fuente, Saupe & Selden, 2015* ..... K El Soplao amber

† ***Spinomegops* Pérez-de la Fuente, Saupe & Selden, 2015** ..... **Cretaceous**

284. *Spinomegops aragonensis* Pérez-de la Fuente, Saupe & Selden, 2015 ..... K San Just amber

285. *Spinomegops arcanus* Pérez-de la Fuente, Saupe & Selden, 2015* ..... K Álava amber

† ***Zarquagonomegops* Kaddumi, 2007** ..... **Cretaceous**

286. *Zarquagonomegops wunderlichi* Kaddumi, 2007* ..... K Jordanian amber

† **SPATIATORIDAE Petrunkevitch, 1942** ..... **Cretaceous – Palaeo.**

Spatiatoridae indet *in* Wunderlich 2017*c* ..... K Burmese amber

† ***Spatiator* Petrunkevitch, 1942** ..... **Cretaceous – Palaeo.**

287. *Spatiator bitterfeldensis* Wunderlich 2017a ..... Pa Bitterfeld amber

288. *Spatiator caulis* Wunderlich, 2008*a* ..... Pa Baltic amber

289. *Spatiator martensi* Wunderlich, 2006 ..... Pa Baltic amber

290. *Spatiator praeceps* Petrunkevitch, 1942* ..... Pa Baltic amber

291. *Spatiator putescens* Wunderlich, 2015*b* ..... K Burmese amber

Spatiator sp. *in* Wunderlich (2011*h*) ..... Pa Baltic amber

† **VETIATORIDAE Wunderlich, 2017*c*** ..... **Cretaceous**

Vetiatoridae indet *in* Wunderlich (2017*c*) ..... K Burmese amber

† ***Pekkachilus* Wunderlich, 2017*c*** ..... **Cretaceous**

Pekkachilus sp. indet *in* Wunderlich (2017*c*) ..... K Burmese amber

292. *Pekkachilus vesica* Wunderlich, 2017*c** ..... K Burmese amber

† ***Vetiator* Wunderlich, 2015*b*** ..... **Cretaceous**

293. *Vetiator gracilipes* Wunderlich, 2015*b** ..... K Burmese amber

STENOCHILIDAE Thorell, 1873 ..... **Recent**

no fossil record

ARCHAEIDAE C. L. Koch & Berendt, 1854 ..... **Jurassic – Recent**

Archaeinae indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

***Archaea* C. L. Koch & Berendt, 1854** ..... **Palaeogene – Recent**

294. ?*Archaea bitterfeldensis* Wunderlich, 2004*d* ..... Pa Bitterfeld amber

295. *Archaea compacta* Wunderlich, 2004*d* ..... Pa Baltic amber

296. *Archaea paradoxa* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

i. = *Archaea laevigata* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

ii. = *Archaea incompta* Menge in C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

297. *Archaea pougneti* Simon, 1884*b* ..... Pa Baltic amber

† ***Baltarchaea* Eskov, 1992** ..... **Palaeogene**

298. *Baltarchaea conica* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber

† ***Burmesarchaea* Wunderlich, 2008*d*** ..... **Cretaceous**

299. *Burmesarchaea alissa* Wunderlich, 2017*c* ..... K Burmese amber

300. *Burmesarchaea caudata* Wunderlich, 2017*c* ..... K Burmese amber

301. *Burmesarchaea crassicaput* Wunderlich, 2017*c* ..... K Burmese amber

302. *Burmesarchaea crassichelae* Wunderlich, 2017*c* ..... K Burmese amber

303. *Burmesarchaea gibber* Wunderlich, 2017*c* ..... K Burmese amber

304. *Burmesarchaea gibberoides* Wunderlich, 2017*c* ..... K Burmese amber

305. *Burmesarchaea gibbosa* Wunderlich, 2017*c* ..... K Burmese amber

306. *Burmesarchaea grimaldii* (Penney, 2003*a*) ..... K Burmese amber

307. *Burmesarchaea longicollum* Wunderlich, 2017*c* ..... K Burmese amber

308. *Burmesarchaea propinqua* Wunderlich, 2017*c* ..... K Burmese amber

309. *Burmesarchaea pseudogibber* Wunderlich, 2017*c* ..... K Burmese amber

310. *Burmesarchaea pustulata* Wunderlich, 2017*c* ..... K Burmese amber

311. *Burmesarchaea quadrata* Wunderlich, 2017*c* ..... K Burmese amber

312. *Burmesarchaea speciosus* (Wunderlich, 2008*d*) ..... K Burmese amber

† ***Eoarchaea* Forster & Platnick, 1984** ..... **Palaeogene**

313. *Eoarchaea hyperoptica* (Menge in C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber

314. *Eoarchaea vidua* Wunderlich, 2004*d* ..... Pa Baltic amber

† ***Eomysmauchenius* Wunderlich, 2008*d*** ..... **Cretaceous**

315. *Eomysmauchenius dubius* Wunderlich, 2008*d* ..... K Burmese amber

316. *Eomysmauchenius longissipes* Wunderlich, 2015*b* ..... K Burmese amber

tentative transfer by Wunderlich (2017*c*)

317. *Eomysmauchenius septentrionalis* Wunderlich, 2008*d** ..... K Burmese amber

***Eriauchenius* O. P.-Cambridge, 1881** ..... **Quaternary – Recent**

318. *Eriauchenius gracilicollis* (Millot, 1948) **[Recent]** ..... Qt Copal

i. = *Archaea copalensis* Lourenço, 2000*b* ..... Qt Copal

† ***Jurarchaea* Eskov, 1987** ..... **Jurassic**

319. *Jurarchaea zherikhini* Eskov, 1987* ..... J Kazakhstan

† ***Myrmecarchaea* Wunderlich, 2004*d*** ..... **Palaeogene**

320. *Myrmecarchaea petiolus* Wunderlich, 2004*d** ..... Pa Baltic amber

321. *Myrmecarchaea pediculus* Wunderlich, 2004*d* ..... Pa Baltic amber

† **Patarchaea Selden, Huang & Ren, 2008** ..... **Jurassic**

322. *Patarchaea muralis* Selden, Huang & Ren, 2008* ..... J Daohugou, China

† ***Planarchaea* Wunderlich, 2015*b*** ..... **Cretaceous**

= † *Filiauchenius* Wunderlich, 2008*d*

323. *Planarchaea kopp* Wunderlich, 2015*b** ..... K Burmese amber

324. *Planarchaea oblonga* Wunderlich, 2017*c* ..... K Burmese amber

325. *Planarchaea ovata* Wunderlich, 2017*c* ..... K Burmese amber

326. *Planarchaea paucidentatus* (Wunderlich, 2008*d*) tentative transfer ..... K Burmese amber

327. *Planarchaea pilosa* (Wunderlich, 2015*b*) tentative transfer ..... K Burmese amber

† ***Saxonarchaea*** **Wunderlich, 2004*d*** ..... **Palaeogene**

328. *Saxonarchaea dentata* Wunderlich, 2004*d** ..... Pa Bitterfeld amber

329. *Saxonarchaea diabolica* Wunderlich, 2004*d* ..... Pa Bitterfeld amber

ENTELEGYNAE Simon, 1893 ..... **Jurassic – Recent**

"Cribellate Entelegynae species 1–2" *in* Park *et al*. (2019) ..... K Jinju Form., Korea

NICODAMOIDEA Simon, 1898 ..... **Recent**

MEGADICTYNIDAE Lehtinen, 1967 ..... **Recent**

no fossil record

NICODAMIDAE Simon, 1898 ..... **Recent**

no fossil record

ARANEOIDEA Latreille, 1806 ..... **Jurassic – Recent**

Araneoidea fam. indet. *in* Wunderlich (2008*d*) ..... K Burmese amber

† ***Mesarania*** **Hong, 1984** ..... **Jurassic**

330. *Mesarania hebeiensis* Hong, 1984* ..... J Hebei, China

† **PRAETHERIDIIDAE Wunderlich, 2004*l*** (n. stat. 2012) ..... **Palaeogene**

† ***Praetheridion*** **Wunderlich, 2004*l*** ..... **Palaeogene**

331. *Praetheridion fleissneri* Wunderlich, 2004*l** ..... Pa Baltic amber

† **PROTHERIDIIDAE Wunderlich, 2004*l*** ..... **Palaeogene**

† ***Protheridion*** **Wunderlich, 2004*l*** ..... **Palaeogene**

332. *Protheridion bitterfeldensis* Wunderlich, 2004*l* ..... Pa Bitterfeld amber

333. *Protheridion detritus* Wunderlich, 2004*l* ..... Pa Baltic amber

334. *Protheridion obscurum* Wunderlich, 2004*l* ..... Pa Baltic amber

335. *Protheridion punctatum* Wunderlich, 2004*l* ..... Pa Baltic amber

336. *Protheridion tibialis* Wunderlich, 2004*l** ..... Pa Baltic amber

† **LEVIUNGUIDAE Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

† ***Leviunguis*** **Wunderlich, 2012*d*** ..... **Cretaceous**

337. *Leviunguis altus* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

338. *Leviunguis anulus* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

339. *Leviunguis anulusoides* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

340. *Leviunguis bruckschi* Wunderlich, 2012*d** ..... K Burmese amber

341. *Leviunguis bruckschoides* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

342. *Leviunguis erectus* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

343. *Leviunguis glomulus* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

344. *Leviunguis glomus* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

345. *Leviunguis graciliembolus* Wunderlich in Wunderlich & Müller, 2018 ..... K Burmese amber

346. *Leviunguis gradus* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

347. *Leviunguis porrigens* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber
348. *Leviunguis pseudobruckschi* Wunderlich *in* Wunderlich & Müller, 2018 .. K Burmese amber
349. *Leviunguis quadratus* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

THERIDIIDAE Sundevall, 1833 ..... **Cretaceous – Recent**
= PHYCOIDAE Thorell, 1873
= EPISINIDAE O. P.-Cambridge, 1879*a*
= HADROTARSIDAE Thorell, 1881
?Theridiidae gen. et sp. indet *in* McAlpine & Martin (1969) ..... K Canadian amber
Theridiidae gen. et sp. *in* Nishikawa (1974) ..... Qt Mizunami copal

***Achaearanea* Strand, 1929** ..... **Neogene – Recent**
350. *Achaearanea extincta* Wunderlich, 1988 ..... Ne Dominican amber
Achaearanea sp. *in* Wunderlich (1988) ..... Ne Dominican amber

***Argyrodes* Simon, 1864** ..... **Neogene – Recent**
351. *Argyrodes* (*Ariamnes*) *copalis* Wunderlich, 2008*b* ..... Qt Colombian copal
352. *Argyrodes* (*Ariamnes*) *resina* Wunderlich, 2011*f* ..... Qt Madagascar copal
353. *Argyrodes* (*Rhomphaea*) *gibbifera* Wunderlich, 2004*as* ..... Qt Madagascar copal
354. *Argyrodes parvipatellaris* Wunderlich, 1988 ..... Ne Dominican amber
Argyrodes sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Balticoridion* Wunderlich, 2008*b*** ..... **Palaeogene**
355. *Balticoridion dubium* Wunderlich, 2008*b** ..... Pa Baltic / Bitt. amber

† ***Balticpholcomma* Wunderlich, 2008*b*** ..... **Palaeogene**
356. *Balticpholcomma scutatum* Wunderlich, 2008*b** ..... Pa Baltic amber

† ***Burmatheridon* Wunderlich in Wunderlich & Müller, 2018** ..... **Palaeogene**
357. *Burmatheridon sinespinae* Wunderlich *in* Wunderlich & Müller, 2018* ... K Burmese amber

† ***Caudasinus* Wunderlich, 2008*b*** ..... **Palaeogene**
358. *Caudasinus bispinosus* Wunderlich, 2008*b* ..... Pa Baltic amber
359. *Caudasinus caudatus* Wunderlich, 2008*b** ..... Pa Baltic amber
360. *Caudasinus regeneratus* Wunderlich, 2008*b* ..... Pa Baltic amber
Caudasinus sp. *in* Wunderlich (2008*b*) ..... Pa Baltic amber

***Chrosiothes* Simon, 1894** ..... **Neogene – Recent**
361. *Chrosiothes biconigerus* Wunderlich, 1988 ..... Ne Dominican amber
362. *Chrosiothes curvispinosus* Wunderlich, 1988 ..... Ne Dominican amber
363. *Chrosiothes emulgatus* Wunderlich, 1988 ..... Ne Dominican amber
364. *Chrosiothes longispinosus* Wunderlich, 1988 ..... Ne Dominican amber
365. *Chrosiothes monoceros* Wunderlich, 1988 ..... Ne Dominican amber
366. *Chrosiothes tumulus* Wunderlich, 1988 ..... Ne Dominican amber
367. *Chrosiothes unicornis* Wunderlich, 1988 ..... Ne Dominican amber

Chrysso* O. P.-Cambridge, 1882*a ..... **Neogene – Recent**
368. *Chrysso conspicua* Wunderlich, 1988 ..... Ne Dominican amber
369. *Chrysso dubia* Wunderlich, 1988 ..... Ne Dominican amber

† ***Clavibertus* Wunderlich, 2008*b*** ..... **Palaeogene**

370. *Clavibertus parvus* Wunderlich, 2008*b* ..... Pa Baltic amber

371. *Clavibertus prominens* Wunderlich, 2008*b** ..... Pa Baltic amber

† ***Clya* C. L. Koch & Berendt, 1854** ..... **Palaeogene**

372. *Clya abdita* Wunderlich, 2008*b* ..... Pa Baltic amber

373. *Clya lugubris* C. L. Koch & Berendt, 1854* ..... Pa Baltic / Rovno amber

374. *Clya calefacta* Wunderlich, 2008*b* ..... Pa Baltic amber

375. *Clya gracilis* (Petrunkevitch, 1958) ..... Pa Baltic amber

376. *Clya granulata* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

377. *Clya obscura* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

378. *Clya rotata* Wunderlich, 2008*b* ..... Pa Baltic amber

379. *Clya supercalefacta* Wunderlich, 2008*b* ..... Pa Baltic amber

380. *Clya superspiralis* Wunderlich, 2008*b* ..... Pa Baltic amber

381. *Clya tricurvata* Wunderlich, 2008*b* ..... Pa Baltic amber

† ***Cornutidion* Wunderlich, 1988** ..... **Neogene**

382. *Cornutidion elongatum* Wunderlich, 1988* ..... Ne Dominican amber

***Craspedisia* Simon, 1894** ..... **Neogene – Recent**

383. *Craspedisia yapchoontecki* Penney & Marusik *in* Penney *et al*. (2012*b*) Ne Dominican amber

† ***Cretotheridion* Wunderlich, 2015*b*** ..... **Cretaceous**

384. *Cretotheridion inopinatum* Wunderlich, 2015*b** ..... K Burmese amber

† ***Cymbiopholcomma* Wunderlich, 2008*b*** ..... **Palaeogene**

385. *Cymbiopholcomma dudum* Wunderlich, 2008b* ..... Pa Baltic amber

386. *Cymbiopholcomma spiculum* Wunderlich, 2008b ..... Pa Baltic amber

† ***Dipoenata* Wunderlich, 1988** ..... **Neogene**

387. *Dipoenata altioculata* Wunderlich, 1988 ..... Ne Dominican amber

388. *Dipoenata cala* Wunderlich, 1988 ..... Ne Dominican amber

389. *Dipoenata clypeata* Wunderlich, 1988 ..... Ne Dominican amber

390. *Dipoenata globulus* Wunderlich, 1988 ..... Ne Dominican amber

391. *Dipoenata praedominicana* (Wunderlich, 1986) ..... Qt Dominican copal

392. *Dipoenata stipes* Wunderlich, 1988* ..... Ne Dominican amber

393. *Dipoenata yolandae* Wunderlich, 1988 ..... Ne Dominican amber

Dipoenata sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Eoasagena* Wunderlich, 2008*b*** ..... **Palaeogene**

394. *Eoasagena scutata* Wunderlich, 2008*b** ..... Pa Baltic amber

† ***Eolyrifer* Wunderlich, 2008*b*** ..... **Palaeogene**

395. *Eolyrifer longitibialis* Wunderlich, 2008*b** ..... Pa Baltic amber

† ***Eomysmena* Petrunkevitch, 1942** ..... **Palaeogene – Neogene**

= † *Antopia* Menge *in* C. L. Koch & Berendt, 1854 [tentative synonomy]

= † *Astodipoena* Petrunkevitch, 1958

= † *Eodipoena* Petrunkevitch, 1942

396. *Eomysmena asta* Petrunkevitch, 1971 ..... Ne Chiapas amber

397. *Eomysmena aviceps* Wunderlich, 2008*b* ..... Pa Baltic amber

398. *Eomysmena calefacta* Wunderlich, 2008*b* ..... Pa Baltic amber
399. *Eomysmena crassa* (Petrunkevitch, 1958) ..... Pa Baltic amber
400. *Eomysmena baltica* Petrunkevitch, 1946 ..... Pa Baltic amber
401. '*Eomysmena*' *bassleri* (Petrunkevitch, 1942) ..... Pa Baltic amber
402. ?*Eomysmena kaestneri* (Petrunkevitch, 1958) ..... Pa Baltic amber
403. *Eomysmena militaris* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
404. *Eomysmena moritura* Petrunkevitch, 1942* ..... Pa Baltic amber
    i. = *Eomysmena consulta* (Petrunkevitch, 1958) [tentative synonomy] ..... Pa Baltic amber
405. *Eomysmena nielseni* (Petrunkevitch, 1958) ..... Pa Baltic amber
406. *Eomysmena oculata* (Petrunkevitch, 1942) ..... Pa Baltic amber
407. *Eomysmena punctulata* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
408. *Eomysmena recta* Wunderlich, 2008*b* ..... Pa Baltic amber
409. *Eomysmena tenera* (Menge in C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

Eomysmena spp. *in* Wunderlich 2008*b* ..... Pa Baltic / Bitt. Amber

† ***Eoteutana* Wunderlich, 2008*b*** ..... **Palaeogene**

410. *Eoteutana hirsuta* Wunderlich, 2008*b** ..... Pa Baltic amber

***Episinus* Latreille, 1809** ..... **Palaeogene – Recent**

= † *Flegia* C. L. Koch & Berendt, 1854
= † *Impulsor* Petrunkevitch, 1942
= † *Malleator* Petrunkevitch, 1942
= † *Mictodipoena* Petrunkevitch, 1958
= † *Municeps* Petrunkevitch, 1942 [tentative synonomy]

411. *Episinus anapidaeque* Wunderlich, 2008*b* ..... Pa Baltic amber
412. *Episinus antecognatus* Wunderlich, 1986 ..... Qt Dominican copal
413. *Episinus appendix* Wunderlich, 2008*b* ..... Pa Baltic amber
414. *Episinus arrodens* Wunderlich, 2008*b* ..... Pa Baltic amber
415. *Episinus balticus* Marusik & Penney, 2004 ..... Pa Baltic / Bitt. Amber
416. *Episinus brevipalpus* Wunderlich, 1988 ..... Ne Dominican amber
417. *Episinus bulla* Wunderlich, 2008*b* ..... Pa Baltic amber
418. *Episinus chiapasanus* (Petrunkevitch, 1971) ..... Ne Chiapas amber
419. *Episinus clunis* Wunderlich, 2008*b* ..... Pa Baltic amber
420. *Episinus cochlear* Wunderlich, 2008*b* ..... Pa Baltic amber
421. *Episinus cornutus* Wunderlich, 1988 ..... Ne Dominican amber
422. *Episinus cymbialis* Wunderlich, 2008*b* ..... Pa Baltic amber
423. *Episinus dimidius* Wunderlich, 2008*b* ..... Pa Baltic amber
424. *Episinus eskovi* Marusik & Penney, 2004 ..... Pa Baltic amber
425. *Episinus isopteraque* Wunderlich, 2008*b* ..... Pa Baltic amber
426. *Episinus latus* Wunderlich, 2008*b* ..... Pa Baltic amber
427. *Episinus longimanus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
    i. = *Malleator niger* Petrunkevitch, 1942 ..... Pa Baltic amber
428. *Episinus longisoma* Wunderlich, 2008b ..... Pa Baltic amber

429. *Episinus minutus* (Petrunkevitch, 1958) ..... Pa Baltic amber
430. *Episinus mordellidaeque* Wunderlich, 2008*b* ..... Pa Baltic amber
431. *Episinus musculus* Wunderlich, 2008*b* ..... Pa Baltic amber
432. *Episinus mutilus* (Petrunkevitch, 1958) ..... Pa Baltic amber
433. *Episinus nausticymbium* Wunderlich, 2008*b* ..... Pa Baltic amber
434. *Episinus neglectus* (Petrunkevitch, 1942) ..... Pa Baltic amber
435. *Episinus penneyi* Garcia-Villafuerte, 2006*a* ..... Ne Chiapas amber
436. *Episinus praecognatus* Wunderlich, 1982 ..... Ne Dominican amber
437. *Episinus pulcher* (Petrunkevitch, 1942) ..... Pa Baltic amber
438. *Episinus regalis* (Petrunkevitch, 1958) ..... Pa Baltic amber
439. *Episinus stridulus* (Petrunkevitch, 1958) ..... Pa Baltic amber
440. *Episinus tibiaseta* Wunderlich, 2011*g* ..... Ne Dominican amber
441. *Episinus transversus* Wunderlich, 2008*b* ..... Pa Baltic amber
442. *Episinus tuberosus* Wunderlich, 1988 ..... Ne Dominican amber

Episinus spp. *in* Wunderlich (2008*b*) ..... Pa Baltic amber

***Euryopis* Menge, 1868** ..... **Palaeogene – Recent**

443. ?*Euryopis araneoides* Wunderlich, 2008*b* ..... Pa Baltic amber
444. *Euryopis bitterfeldensis* Wunderlich, 2008*b* ..... Pa Baltic / Bitt. Amber
445. *Euryopis nexus* Wunderlich, 2008*b* ..... Pa Baltic amber
446. *Euryopis streyi* Wunderlich, 2008*b* ..... Pa Baltic / Bitt. Amber

Euryopis/Emertonella complex *in* Penney *et al*. (2012c) ..... Qt Colombian copal

† ***Euryopus* Menge *in* C. L. Koch & Berendt, 1854** ..... **Palaeogene**

447. *Euryopus gracilipes* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

***Faiditus* Keyserling, 1884** ..... **Neogene – Recent**

448. *Faiditus crassipatellaris* (Wunderlich, 1988) ..... Ne Dominican amber

† ***Femurraptor* Wunderlich, 2011*g*** ..... **Neogene**

449. *Femurraptor dominicanus* Wunderlich, 2011g* ..... Ne Dominican amber

† ***Globulidion* Wunderlich, 2008*b*** ..... **Palaeogene**

450. *Globulidion cochlea* Wunderlich, 2008*b** ..... Pa Baltic amber

† ***Hirsutipalpus* Wunderlich, 2008*b*** ..... **Palaeogene**

451. *Hirsutipalpus varipes* Wunderlich, 2008*b** ..... Pa Baltic / Bitt. amber

† ***Kochiuridion* Wunderlich, 2008*b*** ..... **Palaeogene**

452. *Kochiuridion scutatum* Wunderlich, 2008*b** ..... Pa Baltic / Bitt. amber

***Lasaeola* Simon, 1881** ..... **Palaeogene – Recent**

= † *Nactodipoena* Petrunkevitch, 1942 [a subgenus in Wunderlich (2008b)]

453. *Lasaeola acumen* Wunderlich, 2008*b* ..... Pa Baltic amber
454. *Lasaeola baltica* (Marusik & Penney, 2004) ..... Pa Baltic amber
455. *Lasaeola bitterfeldensis* Wunderlich, 2008b ..... Pa Bitterfeld amber
456. *Lasaeola communis* Wunderlich, 2008b ..... Pa Baltic amber
457. *Lasaeola* (*Nactodipoena*) *dunbari* (Petrunkevitch, 1942) ..... Pa Baltic amber
458. ?*Lasaeola furca* Wunderlich, 2008b ..... Pa Baltic amber

459. *Lasaeola germanica* (Petrunkevitch, 1958) ..... Pa Baltic amber
460. *Lasaeola* (*Phycosoma*) *inclinata* Wunderlich, 2012*a* ..... Qt Madagascan copal
461. *Lasaeola infulata* (C. L. Koch & Berendt, 1854) ..... Pa Baltic / Bitt. Amber
462. *Lasaeola larvaque* Wunderlich, 2008b ..... Pa Baltic amber
463. *Lasaeola latisulci* Wunderlich, 2008b ..... Pa Baltic amber
464. *Lasaeola pristina* (Wunderlich, 1986) ..... Ne Dominican amber
465. *Lasaeola puta* Wunderlich, 1988 ..... Ne Dominican amber
466. *Lasaeola sexsaetosa* Wunderlich, 2008*b* ..... Pa Baltic amber
467. ?*Lasaeola sigillata* Wunderlich, 2008*b* ..... Pa Bitterfeld amber
468. *Lasaeola vicina* (Wunderlich, 1982) ..... Ne Dominican amber
469. *Lasaeola vicinoides* Wunderlich, 1988 ..... Ne Dominican amber

Lasaeola sp. *in* Wunderlich (1988) ..... Ne Dominican amber

Lasaeola spp. *in* Wunderlich (2008*b*) ..... Pa Baltic / Bitt. amber

† ***Medela* Petrunkevitch, 1942** [?Theridiidae, cf. Wunderlich (2008*b*)] ..... **Palaeogene**

470. *Medela baltica* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Mimetidion* Wunderlich, 2008*b*** ..... **Palaeogene**

471. *Mimetidion furca* Wunderlich, 2008*b** ..... Pa Baltic amber

† ***Nanomysmena* Petrunkevitch, 1958** ..... **Palaeogene**

472. *Nanomysmena aculeata* Petrunkevitch, 1958 ..... Pa Baltic amber
473. *Nanomysmena munita* Petrunkevitch, 1958 ..... Pa Baltic amber
474. *Nanomysmena palanga* Marusik & Penney, 2004 ..... Pa Baltic amber
475. *Nanomysmena petrunkevitchi* Marusik & Penney, 2004 ..... Pa Baltic amber
476. *Nanomysmena pseudogracilis* Marusik & Penney, 2004 ..... Pa Baltic amber

† ***Nanosteatoda* Wunderlich, 2008*b*** ..... **Palaeogene**

477. *Nanosteatoda breviscutum* Wunderlich, 2008*b* ..... Pa Baltic amber
478. *Nanosteatoda trisetae* Wunderlich, 2008*b* ..... Pa Baltic amber

† ***Obscuropholcomma* Wunderlich, 2008*b*** ..... **Palaeogene**

479. *Obscuropholcomma tegens* Wunderlich, 2008*b** ..... Pa Baltic amber

Obscuropholcomma sp. *in* Wunderlich (2012*b*) ..... Pa Rovno amber

***Phoroncidia* Westwood, 1835** ..... **Quaternary – Recent**

480. *Phoroncidia* ?*aculeata* Westwood, 1835 **[Recent]** ..... Qt Madagascan copal

***Platnickina* Koçak & Kemal, 2008** ..... **Quaternary – Recent**

481. *Platnickina duosetae* Wunderlich, 2012*a* ..... Qt Madagascan copal

† ***Praetereuryopis* Wunderlich, 2008*b*** ..... **Palaeogene**

482. *Praetereuryopis phoroncidoides* Wunderlich, 2008*b** ..... Pa Baltic amber

† ***Pronepos* Petrunkevitch, 1963** ..... **Neogene**

483. *Pronepos exilis* Petrunkevitch, 1963* ..... Ne Chiapas amber
484. *Pronepos fossilis* Petrunkevitch, 1963 ..... Ne Chiapas amber

† ***Protosteatoda* Wunderlich, 2008*b*** ..... **Palaeogene**

485. *Protosteatoda gutta* Wunderlich, 2008*b* ..... Pa Baltic amber

† ***Pseudoteutana* Wunderlich, 2008b** ..... **Palaeogene**

486. *Pseudoteutana stigmatosa* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

i. = *Eomysmena stridens* Petrunkevitch, 1958..... Pa Baltic amber

ii. = *Flegia succini* Petrunkevitch, 1942 ..... Pa Baltic amber

† ***Rugapholcomma* Wunderlich, 2008*b*** ..... **Palaeogene**

487. *Rugopholcomma patellaris* Wunderlich, 2008*b** ..... Pa Baltic amber

† ***Spinisinus* Wunderlich, 2008*b*** ..... **Palaeogene**

488. *Spinisinus parvioculi* Wunderlich, 2008b ..... Pa Baltic amber

489. *Spinisinus splendidus* Wunderlich, 2008b* ..... Pa Baltic amber

† ***Spinitharinus* Wunderlich, 2008*b*** ..... **Palaeogene**

490. *Spinitharinus bulbosus* Wunderlich, 2008*b** ..... Pa Baltic / Bitt. Amber

491. *Spinitharinus cheliceratus* Wunderlich, 2008*b* ..... Pa Baltic / Bitt. Amber

492. *Spinitharinus coniectens* Wunderlich, 2008*b* ..... Pa Baltic amber

493. *Spinitharinus curvatus* Wunderlich, 2008*b* ..... Pa Baltic amber

494. *Spinitharinus cymbioseta* Wunderlich, 2008*b* ..... Pa Baltic amber

Spinitharinus spp. *in* Wunderlich (2008*b*) ..... Pa Baltic amber

***Spintharus* Hentz, 1850** ..... **Neogene – Recent**

495. *Spintharus longisoma* Wunderlich, 1988 ..... Ne Dominican amber

***Steatoda* Sundevall, 1833** ..... **?Palaeogene – Recent**

496. '*Steatoda*' *anticus* (Berland, 1939) ..... Pa Baltic amber

***Stemmops* O. P.-Cambridge, 1894** ..... **Neogene – Recent**

497. *Stemmops incertus* Wunderlich, 1988 ..... Ne Dominican amber

498. *Stemmops prominens* Wunderlich, 1988 ..... Ne Dominican amber

***Styposis* Simon, 1894** ..... **Neogene – Recent**

499. *Styposis pholcoides* Wunderlich, 1988 ..... Ne Dominican amber

† ***Succinobertus* Wunderlich, 2008*b*** ..... **Palaeogene**

500. *Succinobertus adjacens* Wunderlich, 2008*b** ..... Pa Baltic / Bitt. Amber

† ***Succinura* Wunderlich, 2008*b*** ..... **Palaeogene**

501. *Succinura aciesaeta* Wunderlich, 2008*b* ..... Pa Baltic amber

502. *Succinura bellavista* Wunderlich, 2008b* ..... Pa Baltic amber

503. *Succinura circuita* Wunderlich, 2008*b* ..... Pa Baltic amber

504. *Succinura dubia* Wunderlich, 2008*b* ..... Pa Baltic amber

505. *Succinura fuscoruber* Wunderlich, 2008*b* ..... Pa Baltic amber

506. *Succinura ovalis* Wunderlich, 2008*b* ..... Pa Baltic amber

Succinura sp. *in* Wunderlich (2008*b*) ..... Pa Baltic amber

***Theridion* Walckenaer, 1805** ..... **?Cretaceous – Recent**

507. '*Theridion*' *alutaceum* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

508. *Theridion annulipes* Heer, 1865 ..... Ne Öhningen

509. *Theridion atalus* Chang, 2004 [both generic and familial assignment unreliable!] ..... K Jehol Biota

510. '*Theridion*' *berendti* Marusik & Penney, 2004 ..... Pa Baltic amber

i. = *Theridion globosa* C. L. Koch & Berendt, 1854 [preoccupied]

511. *Theridion bucklandi* Thorell, 1870a ..... Pa Aix-en-Provence
512. *Theridion contrarium* Wunderlich, 1988 ..... Ne Dominican amber
513. *Theridion crassipalpum* Berland, 1939 ..... Pa Aix-en-Provence
514. '*Theridion*' *detersum* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
515. *Theridion erectoides* Wunderlich, 1988 ..... Ne Dominican amber
516. Theridion erectum Wunderlich, 1988 ..... Ne Dominican amber
517. '*Theridion*' *globosus* (Presl, 1822) ..... Pa Baltic amber
518. *Theridion globulus* Heer, 1865 ..... Ne Öhningen
519. '*Theridion*' hirtum C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
520. *Theridion inversum* Wunderlich, 1988 ..... Ne Dominican amber
521. *Theridion maculipes* Heer, 1865 ..... Ne Öhningen
522. '*Theridion*' *oblongum* (Presl, 1822) ..... Pa Baltic amber
523. '*Theridion*' *ovale* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
524. '*Theridion*' *ovatum* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
525. '*Theridion*' *simplex* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
526. *Theridion variosoma* Wunderlich, 1988 ..... Ne Dominican amber
527. *Theridion wunderlichi* Penney, 2001 ..... Ne Dominican amber
    i. = *Theridion ovale* Wunderlich, 1988 [preoccupied]

† ***Thyelia* C. L. Koch & Berendt, 1854** ..... **Palaeogene**
528. *Thyelia anomala* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
529. *Thyelia convexa* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
530. *Thyelia fossula* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
531. *Thyelia marginata* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
532. *Thyelia pallida* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
533. *Thyelia scotina* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
534. *Thyelia tristis* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber
535. *Thyelia villosa* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

***Ulesanis* L. Koch, 1872** ..... **Palaeogene – Recent**
536. *Ulesanis antecessor* Wunderlich, 2008*b* ..... Pa Baltic Amber
537. *Ulesanis frontprocera* Wunderlich, 2008*b* ..... Pa Baltic Amber
538. *Ulesanis longicymbium* Wunderlich, 2008*b* ..... Pa Baltic Amber
539. *Ulesanis ovalis* Wunderlich, 2008*b* ..... Pa Baltic / Bitt. Amber
540. *Ulesanis parva* Wunderlich, 2008*b* ..... Pa Baltic / Bitt. amber

† ***Unispinatoda* Wunderlich, 2008*b*** ..... **Palaeogene**
541. *Unispinatoda aculeata* Wunderlich, 2008b* ..... Pa Baltic / Bitt. Amber

† ***Vicipholcomma* Wunderlich, 2008*b*** ..... **Palaeogene**
542. *Vicipholcomma spiralis* Wunderlich, 2008b* ..... Pa Baltic Amber

Theridiidae *incertae sedis*
543. '*Eomysmena*' *succini* (Petrunkevitch, 1942) ..... Pa Baltic amber
544. '*Anelosimus*' *clypeatus* Wunderlich, 1988 ..... Ne Dominican amber

THERIDIOSOMATIDAE Simon, 1881 ..... **Cretaceous – Recent**

Theridiosomatidae gen. et sp. indet *in* Wunderlich (2004*i*) ..... Pa Baltic amber

Theridiosomatidae gen. et sp. indet *in* Wunderlich (2011*f*) ..... Qt Madagascar copal

Baalzebub **Coddington, 1986** ..... **?Cretaceous – Recent**

545. ?*Baalzebub mesozoicum* Penney, 2014 ..... K Vendée amber

generic affinities questioned by Wunderlich & Müller (2018)

† ***Eocoddingtonia*** **Selden, 2010** ..... **Cretaceous**

546. *Eocoddingtonia eskovi* Selden, 2010* ..... K Baissa, Transbaikalia

† ***Eoepeirotypus*** **Wunderlich, 2004j** ..... **Palaeogene**

547. *Eoepeirotypus retrobulbus* Wunderlich, 2004j* ..... Pa Baltic amber

Eoepeirotypus sp. *in* Wunderlich (2004) ..... Pa Bitterfeld amber

† ***Eotheridiosoma*** **Wunderlich, 2004j** ..... **Palaeogene**

548. ?*Eotheridiosoma hamatum* Wunderlich, 2011*e* ..... Pa Baltic amber

549. *Eotheridiosoma tuber* Wunderlich, 2004*j** ..... Pa Bitterfeld amber

550. *Eotheridiosoma volutum* Wunderlich, 2004*j* ..... Pa Bitterfeld amber

† ***Palaeoepeirotypus*** **Wunderlich, 1988** ..... **Neogene**

551. *Palaeoepeirotypus iuvenis* Wunderlich, 1988* ..... Ne Dominican amber

552. *Palaeoepeirotypus iuvenoides* Wunderlich, 1988 ..... Ne Dominican amber

† ***Spinitheridiosoma*** **Wunderlich, 2004*j*** ..... **Palaeogene**

type species designated from the wrong genus!

553. *Spinitheridiosoma balticum* Wunderlich, 2004*j* ..... Pa Baltic amber

554. *Spinitheridiosoma bispinosum* Wunderlich, 2004*j* ..... Pa Bitterfeld amber

555. *Spinitheridiosoma rima* Wunderlich, 2004*j* ..... Pa Baltic amber

Theridiosoma **O. P.-Cambridge, 1879*b*** ..... **Neogene – Recent**

556. *Theridiosoma incompletum* Wunderlich, 1988 ..... Ne Dominican amber

† ***Umerosoma*** **Wunderlich, 2004*j*** ..... **Palaeogene**

557. *Umerosoma multispina* Wunderlich, 2004*j** ..... Pa Baltic amber

† **CRETAMYSMENIDAE Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

† ***Cretamysmena*** **Wunderlich, 2018** ..... **Cretaceous**

558. *Cretamysmena fontana* Wunderlich, 2018* ..... K Burmese amber

MYSMENIDAE Petrunkevitch, 1928 ..... **Palaeogene – Recent**

Mysmeninae sp. *in* Wunderlich (2004*ar*) ..... Pa Rovno amber

† ***Dominicanopsis*** **Wunderlich, 2004*k*** ..... **Neogene**

559. *Dominicanopsis grimaldii* Wunderlich, 2004*k** ..... Ne Dominican amber

† ***Eomysmenopsis*** **Wunderlich, 2004*k*** ..... **Palaeogene**

560. *Eomysmenopsis spinipes* Wunderlich, 2004*k** ..... Pa Baltic / Bitt. Amber

Mysmena **Simon, 1894** ..... **Palaeogene – Recent**

Mysmena (s. l.) sp. indet *in* Wunderlich (2012a) ..... Qt Madagascan copal

561. *Mysmena* (s.l.) *copalis* Wunderlich, 2011*f* ..... Qt Madagascan copal

562. *Mysmena curvata* Wunderlich, 2011*h* ..... Pa Baltic amber

563. *Mysmena dominicana* Wunderlich, 1998 ..... Qt Madagascan copal
564. *Mysmena fossilis* Petrunkevitch, 1971 ..... Ne Chiapas amber
565. *Mysmena groehni* Wunderlich, 2004*k* ..... Pa Baltic / Bitt. amber
566. *Mysmena grotae* Wunderlich, 2004*k* ..... Pa Baltic amber

Mysmenopsis* Simon, 1897*b ..... **Neogene – Recent**

567. *Mysmenopsis lissycoleyae* Penney, 2000 ..... Ne Dominican amber

† ***Palaeomysmena* Wunderlich, 2004*k*** ..... **Palaeogene**

568. *Palaeomysmena hoffeinsorum* Wunderlich, 2004*k** ..... Pa Baltic amber

† **BALTSUCCINIDAE Wunderlich, 2004*l*** ..... **Palaeogene**

† ***Baltsuccinus* Wunderlich, 2004*l*** ..... **Palaeogene**

569. *Baltsuccinus flagellaceus* Wunderlich, 2004*l** ..... Pa Baltic amber
570. *Baltsuccinus similis* Wunderlich, 2004*l* ..... Pa Baltic amber

SYMPHYTOGNATHIDAE Hickman, 1931 ..... **Recent**

no fossil record

ANAPIDAE Simon, 1895 ..... **Palaeogene – Recent**

= MICROPHOLCOMMATIDAE Hickman, 1944
= TEXTRICELLIDAE Hickman, 1945
= HOLARCHAEIDAE Forster & Platnick, 1984
= COMAROMIDAE Wunderlich, 2004
Wunderlich (2011) recognised a family Comaromidae for *Balticoroma*.

† ***Balticoroma* Wunderlich, 2004*k*** ..... **Palaeogene**

= † *Balticorma* [*sic*] Weitschat & Wichard, 2002 [*nomen nudum*]

571. *Balticoroma damzeni* Wunderlich, 2011*h* ..... Pa Baltic amber
572. *Balticoroma ernstorum* Wunderlich, 2004*k* ..... Pa Baltic/Bitt. amber
573. *Balticoroma gracilipes* Wunderlich 2004*k* ..... Pa Baltic/Bitt. amber
574. *Balticoroma reschi* Wunderlich, 2004*k** ..... Pa Baltic amber
575. *Balticoroma serafinorum* Wunderlich, 2004*k* ..... Pa Baltic/Bitt. amber
576. *Balticoroma tibialis* Wunderlich, 2004*k* ..... Pa Baltic amber
577. *Balticoroma wheateri* Penney & Marusik *in* Penney *et al.* (2011) ..... Pa Baltic amber

† ***Balticonopsis* Wunderlich, 2004*k*** ..... **Palaeogene**

578. *Balticonopsis bispina* Wunderlich, 2004*k* ..... Pa Baltic amber
579. *Balticonopsis bitterfeldensis* Wunderlich, 2004*k* ..... Pa Bitterfeld amber
580. *Balticonopsis bulbosa* Wunderlich, 2004*k* ..... Pa Baltic amber
581. *Balticonopsis ceranowiczae* Wunderlich, 2004*k* ..... Pa Baltic amber
582. *Balticonopsis distalis* Wunderlich, 2017*a* ..... Pa Baltic amber
583. *Balticonopsis dunlopi* Wunderlich, 2017*a* ..... Pa Baltic amber
584. *Balticonopsis holti* Wunderlich, 2004*k** ..... Pa Baltic amber
585. *Balticonopsis ludwigi* Wunderlich, 2017*a* ..... Pa Bitterfeld amber
586. *Balticonopsis metatarsalis* Wunderlich, 2017*a* ..... Pa Baltic amber

587. *Balticonopsis perkovskyi* Wunderlich, 2004*ar* ..... Pa Rovno amber

probably belongs to a different genus (cf. Wunderlich 2017*a*)

588. *Balticonopsis thomasi* Wunderlich, 2004*k* ..... Pa Baltic amber

Balticonopsis sp. *in* Wunderlich (2004*k*) ..... Pa Baltic amber

† ***Cenotextricella* Penney *in* Penney *et al*., 2007** ..... **Palaeogene**

589. *Cenotextricella simoni* Penney *in* Penney *et al*., 2007 ..... Pa Le Quesnoy amber

† ***Dubianapis* Wunderlich, 2004*k*** ..... **Palaeogene**

590. *Dubianapis obscura* Wunderlich, 2004*k** ..... Pa Baltic amber

† ***Flagellanapis* Wunderlich, 2004*k*** ..... **Palaeogene**

591. *Flagellanapis voigti* Wunderlich, 2004*k** ..... Pa Baltic/Bitt. Amber

† ***Fossilanapis* Wunderlich, 2004*k*** ..... **Palaeogene**

592. *Fossilanapis anderseri* Wunderlich, 2004*k* ..... Pa Baltic amber

593. *Fossilanapis baetcheri* Wunderlich, 2004*k** ..... Pa Baltic amber

594. *Fossilanapis eichmanni* Wunderlich, 2004*k* ..... Pa Baltic amber

595. *Fossilanapis flexiotarsus* Wunderlich, 2004*k* ..... Pa Baltic amber

596. *Fossilanapis multispinae* Wunderlich, 2011*h* ..... Pa Baltic amber

597. *Fossilanapis saltans* Wunderlich, 2004*k* ..... Pa Baltic amber

598. *Fossilanapis unispinum* Wunderlich, 2004*k* ..... Pa Baltic amber

Fossilanapis sp. *in* Wunderlich (2004*k*) ..... Pa Bitterfeld amber

Fossilanapis sp. *in* Wunderlich (2011*h*) ..... Pa Baltic amber

† ***Palaeoanapis* Wunderlich, 1988** ..... **Neogene**

599. *Palaeoanapis nana* Wunderlich, 1988* ..... Ne Dominican amber

† ***Ruganapis* Wunderlich, 2004*k*** ..... **Palaeogene**

600. *Ruganapis scutata* Wunderlich, 2004*k** ..... Pa Baltic amber

† ***Saxonanapis* Wunderlich, 2004*k*** ..... **Palaeogene**

601. *Saxonanapis grabenhorsti* Wunderlich, 2004*k** ..... Pa Baltic/Bitt. Amber

† ***Tuberanapis* Wunderlich, 2004*k*** ..... **Palaeogene**

602. *Tuberanapis parvibulbus* Wunderlich, 2004*k** ..... Pa Baltic amber

† **JURARANEIDAE Eskov, 1984** ..... **Jurassic**

† ***Juraraneus* Eskov, 1984** ..... **Jurassic**

603. *Juraraneus rasnitsyni* Eskov, 1984 ..... J Transbaikalia

Wunderlich (2015*b*) suggested this could be a haplogyne spider

† **ZARQARANEIDAE Wunderlich, 2008*d*** ..... **Cretaceous**

elevated from tribe status, cf. Wunderlich (2008*d*)

Zarqaraneidae indet. 1–2 *in* Wunderlich & Müller (2018) ..... K Burmese amber

† ***Alteraraneus* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

604. *Alteraraneus gracilipes* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Burmaforceps* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

605. *Burmaforceps amputatus* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Converszarqaraneus* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

606. *Converszarqaraneus annulipedes* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Cornicaraneus* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

607. *Cornicaraneus scutatus* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Crassitibia* Wunderlich, 2015*b*** ..... **Cretaceous**

608. *Crassitibia baculum* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

609. *Crassitibia longispina* Wunderlich, 2015*b** ..... K Burmese amber

610. *Crassitibia tenuimana* Wunderlich, 2015*b* ..... K Burmese amber

† ***Curvitibia* Wunderlich, 2015*b*** ..... **Cretaceous**

611. *Curvitibia curima* Wunderlich, 2015*b**. ..... K Burmese amber

† ***Groehnianus* Wunderlich, 2015*b*** ..... **Cretaceous**

612. *Groehnianus burmensis* Wunderlich, 2015*b** ..... K Burmese amber

† ***Hypotheridiosoma* Wunderlich, 2012*d*** ..... **Cretaceous**

613. *Hypotheridiosoma falcata* Wunderlich, 2015*b* ..... K Burmese amber

614. *Hypotheridiosoma paracymbium* Wunderlich, 2012*d** ..... K Burmese amber

† ***Microproxiaraneus* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

615. *Microproxiaraneus annulatus* Wunderlich *in* Wunderlich & Müller, 2018* K Burmese amber

† ***Parvispina* Wunderlich, 2015*b*** ..... **Cretaceous**

616. *Parvispina tibialis* (Wunderlich, 2011*i*)* ..... K Burmese amber

† ***Paurospina* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

617. *Paurospina curvata* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

618. *Paurospina fortis* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

619. *Paurospina paulocurvata* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

† ***Proxiaraneus* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

620. *Proxiaraneus rarus* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Ramozarqaraneus* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

621. *Ramozarqaraneus pauxillus* Wunderlich *in* Wunderlich & Müller, 2018* K Burmese amber

† ***Spinicymbium* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

622. *Spinicymbium curvimetatarsus* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Zarqaraneus* Wunderlich, 2008*d*** ..... **Cretaceous**

623. *Zarqaraneus hudae* Wunderlich, 2008*d** ..... K Jordanian amber

† **PRAEARANEIDAE Wunderlich, 2017*c*** ..... **Cretaceous**

† ***Praearaneus* Wunderlich, 2017*c*** ..... **Cretaceous**

624. *Praearaneus bruckschi* Wunderlich, 2017*c* ..... K Burmese amber

Praearaneus sp. *in* Wunderlich (2017*c*) ..... K Burmese amber

ARANEIDAE Simon, 1895 ..... **Cretaceous – Recent**

= EPEIRIDAE Sundevall, 1833 [based on a generic synonym]

= EUETRIIDAE Thorell, 1887 [based on a generic synonym]
= ARGIOPIDAE Simon, 1890
= NEPHILIDAE Simon, 1894 [NB: some authors maintain this as a valid family]
= ZYGIELLIDAE Simon, 1929

?Araneinae sp. *in* Wunderlich (2004*h*) ..... Pa Baltic amber
Araneidae gen. et sp. indet. *in* Ribera (2003) ..... Qt Girona, Spain
?Mangorini indet. *in* Wunderlich (2011*a*) ..... Pa Baltic amber
Nephilidae indet. *in* Wunderlich (2012*c*) ..... Pa Baltic amber
Araneidae *incertae sedis in* Selden (2014*b*) ..... Pa Isle of Wight

† ***Anepeira* Wunderlich, 2004*i*** ..... **Palaeogene**

625. *Anepeira complicata* Wunderlich, 2004*i** ..... Pa Baltic amber

† ***Araneometa* Wunderlich, 1988** ..... **Neogene**

626. *Araneometa excelsa* Wunderlich, 1988 ..... Ne Dominican amber
627. *Araneometa herrlingi* Wunderlich, 1988* ..... Ne Dominican amber
628. *Araneometa spirembolus* Wunderlich, 1988 ..... Ne Dominican amber
Araneometa sp. *in* Wunderlich (1988) ..... Ne Dominican amber

***Araneus* Clerck, 1757** ..... **?Cretaceous – Recent**

629. *Araneus absconditus* (Scudder, 1890*a*) ..... Pa Florissant
630. *Araneus aethus* Chang, 2004 [generic assignment unreliable!] ..... K Jehol biota
631. *Araneus beipiaoensis* Chang, 2004 [generic assignment unreliable!] ..... K Jehol biota
632. *Araneus carbonaceous* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang
633. *Araneus cinefactus* (Scudder, 1890a) ..... Pa Florissant
634. *Araneus defunctus* Petrunkevitch, 1958 ..... Pa Baltic amber
635. *Araneus delitus* (Scudder, 1890*a*) ..... Pa Florissant
636. *Araneus emertoni* (Scudder, 1890*a*) ..... Pa Florissant
637. *Araneus exustus* Petrunkevitch, 1963 ..... Ne Chiapas amber
638. *Araneus kinchloeae* Dunlop & Jekel, 2009 ..... Pa Florissant
    i. = *Araneus indistinctus* (Petrunkevitch, 1922) [preoccupied]
639. *Araneus inelegans* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang
640. *Araneus leptopodus* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang
641. *Araneus liaoxiensis* Chang, 2004 [generic assignment unreliable!] ..... K Jehol biota
642. *Araneus longimanus* (Petrunkevitch, 1922) ..... Pa Florissant
643. *Araneus* (*Calinurus*) *longipes* Dalman, 1826 ..... Qt Copal
644. *Araneus luianus* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang
645. *Araneus meeki* (Scudder, 1890a) ..... Pa Florissant
646. *Araneus molassicus* (Heer, 1865) ..... Ne Öhningen
647. *Araneus nanus* Wunderlich, 1988 ..... Ne Dominican amber
648. *Araneus piceus* Lin, Zhang & Wang, 1989 ..... Ne Shanwang
649. *Araneus reheensis* Chang, 2004 [generic assignment unreliable!] ..... K Jehol biota
650. *Araneus ruidipedalis* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang
651. *Araneus troschelii* (Bertkau, 1878*b*) ..... Ne Rott, Germany
652. *Araneus vulcanalis* (Scudder, 1890*a*) ..... Pa Florissant

?*Araneus* sp. *in* Wunderlich (2012*c*) ..... Pa Baltic amber

***Argiope* Audouin, 1826** ..... **Neogene – Recent**

= † *Magnaranea* Hong, 1985

653. *Argiope furva* (Hong, 1985) ..... Ne Shanwang

† ***Bararaneus* Wunderlich, 2004i** ..... **Palaeogene**

654. ?*Bararaneus annulatus* Wunderlich, 2004*i* ..... Pa Baltic amber

655. *Bararaneus evolvens* Wunderlich, 2004*i** ..... Pa Baltic amber

† ***Chrysometata* Wunderlich, 2004*h*** ..... **Palaeogene**

656. *Chrysometata palaearctica* Wunderlich, 2004*h** ..... Pa Baltic amber

† ***Cretaraneus* Selden, 1990** ..... **Cretaceous**

657. *Cretaraneus liaoningensis* Cheng, Meng & Wang *in* Cheng *et al*., 2008 ..... K Jehol biota

658. *Cretaraneus martensnetoi* Mesquita, 1996 ..... K Crato Formation

659. *Cretaraneus vilaltae* Selden, 1990* ..... K Sierra de Montsech

† ***Cyclososoma* Petrunkevitch, 1958** ..... **Palaeogene**

660. *Cyclososoma succini* Petrunkevitch, 1958* ..... Pa Baltic amber

***Enacrosoma* Mello-Leitão, 1932** ..... **Neogene – Recent**

661. *Enacrosoma verrucosa* (Wunderlich, 1988) ..... Ne Dominican amber

† ***Eoaraneus* Wunderlich, 2004*i*** ..... **Palaeogene**

662. *Eoaraneus complexus* Wunderlich, 2004*i** ..... Pa Baltic amber

† ***Eochorizopes* Wunderlich, 2008*a*** ..... **Palaeogene**

663. *Eochorizopes szeklinskiae* Wunderlich, 2008*a** ..... Pa Baltic amber

† ***Eonephila* Wunderlich, 2004*i*** ..... **Palaeogene**

664. *Eonephila bitterfeldensis* Wunderlich, 2004*i* ..... Pa Bitterfeld amber

665. *Eonephila excellens* Wunderlich, 2004*i** ..... Pa Baltic amber

666. *Eonephila longembolus* Wunderlich, 2004*i* ..... Pa Baltic amber

† ***Eozygiella* Wunderlich, 2004*h*** ..... **Palaeogene**

667. *Eozygiella compacta* Wunderlich, 2004*h** ..... Pa Baltic amber

† ***Eustaloides* Petrunkevitch, 1842** ..... **Palaeogene**

= † *Graea* Thorell, 1869 [older synonym, but preoccupied]

668. ?*Eustaloides aberrans* (Wunderlich, 2004*h*) ..... Pa Baltic amber

669. *Eustaloides bitterfeldensis* (Wunderlich, 2004*h*) ..... Pa Bitterfeld amber

670. *Eustaloides breviembolus* (Wunderlich, 2004*h*) ..... Pa Baltic amber

671. *Eustaloides brevis* (Wunderlich, 2004*h*) ..... Pa Baltic amber

672. *Eustaloides calceatus* Petrunkevitch, 1950 ..... Pa Baltic amber

673. *Eustaloides epeiroidea* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

674. *Eustaloides impudica* (Wunderlich, 2004*h*) ..... Pa Baltic amber

675. *Eustaloides lingula* (Wunderlich, 2004*h*) ..... Pa Baltic amber

676. *Eustaloides magnocoli* (Wunderlich, 2012*c*) ..... Pa Baltic amber

677. *Eustaloides minor* Petrunkevitch, 1950 ..... Pa Baltic amber

678. *Eustaloides setosa* Petrunkevitch, 1942* ..... Pa Baltic amber

679. *Eustaloides succini* Petrunkevitch, 1942 ..... Pa Baltic amber

† ***Fossilaraneus*** **Wunderlich, 1988** ..... **Neogene**

680. *Fossilaraneus incertus* Wunderlich, 1988* ..... Ne Dominican amber

Gea **C. L. Koch, 1843*a*** ..... **Neogene – Recent**

681. *Gea krantzi* von Heyden, 1859 ..... Ne Rott, Germany

Hypognatha **Guérin, 1839** ..... **Quaternary – Recent**

682. *Hypognatha testudinaria* (Taczanowski, 1879) **[Recent]** ..... Qt Colombian copal

† ***Luxurionephila*** **Wunderlich, 2004*i*** ..... **Palaeogene**

683. *Luxurionephila spinifera* Wunderlich, 2004*i* ..... Pa Baltic amber

† ***Meditrina*** **Petrunkevitch, 1942** ..... **Palaeogene**

684. *Meditrina circumvallata* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Mesozygiella*** **Penney & Ortuño, 2006** ..... **Cretaceous**

685. *Mesozygiella dunlopi* Penney & Ortuño, 2006* ..... K Álava amber

† ***Minutunguis*** **Wunderlich, 2011*f*** ..... **Quaternary**

686. *Minutunguis silvestris* Wunderlich, 2011*f* * ..... Qt Madagascan copal

† ***Miraraneus*** **Wunderlich, 2004*i*** ..... **Palaeogene**

687. *Miraraneus peregrinus* Wunderlich, 2004*i** ..... Pa Baltic amber

† ***Mirometa*** **Petrunkevitch, 1963** ..... **Neogene**

688. *Mirometa valdespinosa* Petrunkevitch, 1963 ..... Ne Chiapas amber

Molinaranea **Mello-Leitão, 1940** ..... **Neogene – Recent**

689. *Molinaranea mitnickii* Saupe, Selden & Penney, 2010 ..... Ne Dominican amber

Nephila **Leach, 1815** ..... **Cretaceous – Recent**

= † *Geratonephila* Poinar *in* Poinar & Buckley, 2012

690. *Nephila breviembolus* Wunderlich, 1986 ..... Ne Dominican amber

691. *Nephila burmanica* (Poinar *in* Poinar & Buckley, 2012) ..... K Burmese amber

Wunderlich (2015b) suggested that this may be a synonym of *N. tenuis*

692. *Nephila dommeli* Wunderlich, 1982 ..... Ne Dominican amber

693. *Nephila furca* Wunderlich, 1986 ..... Ne Dominican amber

694. *Nephila longembolus* Wunderlich, 1986 ..... Ne Dominican amber

695. *Nephila pennatipes* Scudder, 1885 ..... Pa Florissant

696. *Nephila tenuis* Wunderlich, 1986 ..... Ne Dominican amber

Nephila sp. *in* Dunlop & Penney (2012) ..... K Crato Formation

† ***Palaeonephila*** **Wunderlich, 2004*i*** ..... **Palaeogene**

697. *Palaeonephila brevis* Wunderlich, 2004*i* ..... Pa Baltic amber

698. *Palaeonephila curvata* Wunderlich, 2004*i** ..... Pa Baltic amber

699. *Palaeonephila dilitans* Wunderlich, 2004*i* ..... Pa Baltic amber

700. *Palaeonephila fibula* Wunderlich, 2004*i* ..... Pa Baltic amber

701. *Palaeonephila longipes* Wunderlich, 2004*i* ..... Pa Baltic amber

† ***Pycnosinga*** **Wunderlich, 1988** ..... **Neogene**

702. *Pycnosinga fossilis* Wunderlich, 1988* ..... Ne Dominican amber

† ***Pulchellaranea*** **Poinar, 2015** ..... **Neogene**

703. *Pulchellaranea pedunculata* Poinar, 2015* ..... Ne Dominican amber

† ***Testudinaroides* Dunlop & Jekel, 2008** ..... **Neogene**

= † *Testudinaria* Zhang, Sun & Zhang, 1994 [preoccupied]

704. *Testudinaroides papposa* (Zhang, Sun & Zhang, 1994) ..... Ne Shanwang

† ***Tethneus* Scudder, 1885** ..... **Palaeogene**

= † *Melanites* Hong, 1985

705. *Tethneus guyoti* Scudder, 1890a ..... Pa Florissant

706. *Tethneus hentzi* Scudder, 1885* ..... Pa Florissant

707. *Tethneus obduratus* Scudder, 1890*a* ..... Pa Florissant

708. *Tethneus orbiculatus* (Hong, 1985) ..... Ne Shanwang

709. *Tethneus provectus* Scudder, 1890a ..... Pa Florissant

710. *Tethneus robustus* Petrunkevitch, 1922 ..... Pa Florissant

711. *Tethneus twenhofeli* Petrunkevitch, 1922 ..... Pa Florissant

***Zilla* C. L. Koch, 1834** ..... **Palaeogene – Recent**

712. *Zilla gracilis* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

713. *Zilla porrecta* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

714. *Zilla veterana* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

MALKARIDAE Davies, 1980 ..... **Recent**

= PARARCHAEIDAE Forster & Platnick, 1984

= STERNODIDAE Moran, 1986

no fossil record

MIMETIDAE Simon, 1881 ..... **Palaeogene – Recent**

= CTENOPHORIDAE Blackwall, 1870 [younger name protected by useage]

Mimetidae gen. et sp. indet. *in* Penney *et al*. (2012*a*) ..... Pa Indian amber

Mimetini sp. 1–4 *in* Wunderlich (2004*q*) ..... Pa Baltic amber

***Ero* C. L. Koch, 1836** ..... **Palaeogene – Recent**

= † *Palaeoero* Wunderlich, 2004*q*

= † *Succinero* Wunderlich, 2004*q*

[Wunderlich revalidated both as putative subgenera]

715. *Ero carboneana* Petrunkevitch, 1942 ..... Pa Baltic amber

716. *Ero aberrans* Petrunkevitch, 1958 ..... Pa Baltic amber

treated as a *nomen dubium* by Harms & Dunlop (2009)

717. *Ero (Succinero) clunis* Wunderlich, 2012*c* ..... Pa Baltic amber

718. *Ero (Succinero) gracilitibialis* Wunderlich, 2012*c* ..... Pa Baltic amber

719. *Ero (Paleoero) longitarsus* (Wunderlich, 2004*q*) ..... Pa Baltic amber

720. *Ero permunda* Petrunkevitch, 1942 ..... Pa Baltic amber

721. *Ero (Succinero) rovnoensis* (Wunderlich, 2004*ar*) ..... Pa Rovno amber

722. *Ero (Succinero) veta* Wunderlich, 2012*c* ..... Pa Baltic amber

***Mimetus* Hentz, 1832** ..... **Palaeogene – Recent**

723. *Mimetus bituberculatus* Wunderlich, 1988 ..... Ne Dominican amber

724. *Mimetus brevipes* Wunderlich, 2004*q* ..... Pa Baltic amber

synonymised by Harms & Dunlop (2009), but ressurected by Wunderlich (2012*c*)

725. ?*Mimetus longipes* Wunderlich, 2004*q* ..... Pa Baltic amber

?*Mimetus* sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Protomimetus* Wunderlich, 2011** ..... **Palaeogene**

726. ?*Protomimetus breviclypeus* Wunderlich, 2011*h* ..... Pa Baltic amber

727. *Protomimetus longiclypeus* Wunderlich, 2011*h** ..... Pa Baltic amber

ARKYIDAE L. Koch, 1872

no fossil record

TETRAGNATHIDAE Menge, 1866 ..... **Cretaceous – Recent**

= PACHYGNATHIDAE Menge, 1866

= METIDAE Simon, 1894

= NANOMETIDAE Forster & Forster, 1999

† ***Anameta* Wunderlich, 2004*h*** ..... **Palaeogene**

728. *Anameta distenda* Wunderlich, 2004*h** ..... Pa Bitterfeld amber

729. *Anameta kuntneri* Wunderlich, 2008*a* ..... Pa Baltic amber

***Azilia* Keyserling, 1882** ..... **Neogene – Recent**

730. *Azilia hispaniolensis* Wunderlich, 1988 ..... Ne Dominican amber

i. = *Azilia muellenmeisteri* Wunderlich, 1988 ..... Ne Dominican amber

Azilia sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Balticgnatha* Wunderlich, 2011*h*** ..... **Palaeogene**

731. *Balticgnatha projectens* Wunderlich 2011*h** ..... Pa Baltic amber

† ***Baltleucauge* Wunderlich, 2008*a*** ..... **Palaeogene**

732. *Baltleucauge gillespiae* Wunderlich 2008*a** ..... Pa Baltic amber

733. *Baltleucauge propinqua* Wunderlich, 2012*c* ..... Pa Baltic amber

† ***Corneometa* Wunderlich, 2004*h*** ..... **Palaeogene**

734. *Corneometa baltica* Wunderlich 2004*h** ..... Pa Baltic amber

735. *Corneometa pilosipes* Wunderlich 2004*h* ..... Pa Baltic amber

***Cyrtognatha* Keyserling, 1882** ..... **Neogene – Recent**

736. *Cyrtognatha weitschati* Wunderlich, 1988 ..... Ne Dominican amber

† ***Eometa* Petrunkevitch, 1958** ..... **Palaeogene**

737. *Eometa calefacta* Wunderlich, 2004h ..... Pa Baltic amber

738. *Eometa longipes* Petrunkevitch, 1958 ..... Pa Baltic amber

739. *Eometa occulta* Wunderlich, 2004h ..... Pa Baltic amber

740. *Eometa perfecta* Wunderlich, 2004h ..... Pa Baltic amber

741. *Eometa samlandica* Petrunkevitch, 1958* ..... Pa Baltic amber

Eometa sp. 1–2 *in* Wunderlich (2004h) ..... Pa Baltic amber

Homalometa* Simon, 1897*b ..... **Neogene – Recent**

742. *Homalometa fossilis* Wunderlich, 1988 ..... Ne Dominican amber

† ***Huergina* Selden & Penney, 2003** ..... **Cretaceous**

743. *Huergina diazromerali* Selden & Penney, 2003* ..... K Las Hoyas, Spain

† ***Macryphantes* Selden, 1990** ..... **Cretaceous**

Wunderlich (2015*b*) suggested this genus could be a synonym of *Paleouloborus*.

744. *Macryphantes cowdeni* Selden, 1990* ..... K Sierra de Montsech

***Meta* C. L. Koch, 1836** ..... **Palaeogene – Recent**

745. *Meta* (*Praetermeta*) *maculosa* Wunderlich, 2008*a* ..... Pa Baltic amber

746. *Meta* (*Praetermeta*) *velans* (Wunderlich, 2004*h*) ..... Pa Baltic amber

† ***Palaeometa* Petrunkevitch, 1922** ..... **Palaeogene**

747. *Palaeometa opertanea* (Scudder, 1890a)* ..... Pa Florissant

† ***Palaeopachygnatha* Petrunkevitch, 1922** ..... **Palaeogene**

748. *Palaeopachygnatha cockerelli* Petrunkevitch, 1922 ..... Pa Florissant

749. *Palaeopachygnatha scudderi* Petrunkevitch, 1922* ..... Pa Florissant

† ***Priscometa* Petrunkevitch, 1958** ..... **Palaeogene**

750. *Priscometa capta* Wunderlich, 2004*h* ..... Pa Baltic amber

751. *Priscometa minor* Wunderlich, 2004*h* ..... Pa Baltic amber

752. *Priscometa tenuipes* Petrunkevitch, 1958* ..... Pa Baltic amber

† ***Samlandicmeta* Wunderlich, 2012*c*** ..... **Palaeogene**

753. *Samlandicmeta mutila* Wunderlich, 2012*c* ..... Pa Baltic amber

Tetragnatha* Latreille, 1804*a ..... **Palaeogene – Recent**

754. *Tetragnatha parva* (Hong, 1985) ..... Ne Shanwang

755. *Tetragnatha pristina* Schawaller, 1982*c* ..... Ne Dominican amber

756. *Tetragnatha tertiaria* Scudder, 1885 ..... Pa Florissant

SYNOTAXIDAE Simon, 1894 ..... **Palaeogene – Recent**

† ***Acrometa* Petrunkevitch, 1942** ..... **Palaeogene**

= † *Eogonatium* Petrunkevitch, 1942

= † *Liticen* Petrunkevitch, 1942

= † *Theridiometa* Petrunkevitch, 1942

= † *Viocurus* Petrunkevitch, 1958

757. *Acrometa clava* Wunderlich, 2004*n* ..... Pa Baltic amber

758. *Acrometa cristata* Petrunkevitch, 1942* ..... Pa NE Europe ambers

i. = *Theridiometa edwardsi* Petrunkevitch, 1942 ..... Pa Baltic amber

ii. = *Viocurus fossilis* Petrunkevitch, 1958 ..... Pa Baltic amber

759. *Acrometa eichmanni* Wunderlich, 2004n ..... Pa Baltic amber

760. *Acrometa incidens* Wunderlich, 2004n ..... Pa Baltic amber

761. *Acrometa minutum* (Petrunkevitch, 1942) ..... Pa Baltic amber

762. *Acrometa pala* Wunderlich, 2004n ..... Pa Baltic amber

763. *Acrometa robusta* (Petrunkevitch, 1942) ..... Pa Baltic amber

764. *Acrometa pseudorobusta* Dunlop & Jekel, 2009 ..... Pa Baltic amber

i. = *Acrometa robusta* (Petrunkevitch, 1946) [preoccupied]

765. *Acrometa samlandica* (Petrunkevitch, 1942) ..... Pa Baltic amber

766. *Acrometa setosus* (Petrunkevitch, 1942) ..... Pa Baltic amber

767. *Acrometa succini* Petrunkevitch, 1942 ..... Pa Baltic amber

† ***Anandrus*** **Menge, 1856** ..... **Palaeogene**

= † *Elucus* Petrunkevitch, 1942

768. *Anandrus inermis* (Petrunkevitch, 1942) ..... Pa Baltic amber

769. *Anandrus infelix* (Petrunkevitch, 1950)* ..... Pa Baltic amber

770. *Anandrus quaesitus* (Petrunkevitch, 1958) ..... Pa Baltic amber

771. *Anandrus redemptus* (Petrunkevitch, 1958) ..... Pa Baltic amber

† ***Chelicerinus*** **Wunderlich, 2008*a*** ..... **Palaeogene**

772. *Chelicerinus abnormis* Wunderlich, 2008*a* ..... Pa Bitterfeld amber

† ***Cornuanandrus*** **Wunderlich, 1986** ..... **Palaeogene**

773. *Cornuanandrus bifurcatus* Wunderlich, 2004*n* ..... Pa Bitterfeld amber

774. *Cornuanandrus bitterfeldensis* Wunderlich, 2004*n* ..... Pa Bitterfeld amber

775. *Cornuanandrus corniculans* Wunderlich, 2004*n* ..... Pa Baltic amber

776. *Cornuanandrus maior* Wunderlich, 1986* ..... Pa Baltic amber

777. *Cornuanandrus minor* Wunderlich, 2004*n* ..... Pa Baltic amber

† ***Dubiosynotaxus*** **Wunderlich, 2004*n*** ..... **Palaeogene**

778. *Dubiosynotaxus perfectus* Wunderlich, 2004*n** ..... Pa Baltic amber

† ***Eosynotaxus*** **Wunderlich, 2004*n*** ..... **Palaeogene**

779. *Eosynotaxus bispinosus* Wunderlich, 2004*n* ..... Pa Baltic amber

780. *Eosynotaxus bitterfeldensis* Wunderlich, 2004*n* ..... Pa Bitterfeld amber

781. *Eosynotaxus custodens* Wunderlich, 2004*n* ..... Pa Baltic amber

782. *Eosynotaxus fastigatus* Wunderlich, 2004*n* ..... Pa Baltic amber

783. *Eosynotaxus paucispina* Wunderlich, 2004*n* ..... Pa Baltic amber

784. *Eosynotaxus spinipes* Wunderlich, 2004*n* ..... Pa Baltic amber

785. *Eosynotaxus wegneri* Wunderlich, 2004*n** ..... Pa Baltic amber

† ***Gibbersynotaxus*** **Wunderlich, 2004*n*** ..... **Palaeogene**

786. *Gibbersynotaxus parvus* Wunderlich, 2004*n** ..... Pa Baltic amber

† ***Protophysoglenes*** **Wunderlich, 2004*n*** ..... **Palaeogene**

787. *Protophysoglenes impressum* Wunderlich, 2004*n** ..... Pa Baltic amber

† ***Pseudoacrometa*** **Wunderlich, 1986** ..... **Palaeogene**

788. *Pseudoacrometa gracilipes* Wunderlich, 1986* ..... Pa Baltic amber

789. *Pseudoacrometa wittmanni* Wunderlich, 2004*n* ..... Pa Baltic amber

† ***Succinitaxus*** **Wunderlich, 2004*n*** ..... **Palaeogene**

790. *Succinitaxus brevis* Wunderlich, 2004*n** ..... Pa European ambers

791. ?*Succinitaxus minutus* Wunderlich, 2004*n* ..... Pa Baltic amber

† ***Sulcosynotaxus*** **Wunderlich, 2004*n*** ..... **Palaeogene**

792. *Sulcosynotaxus cavatus* Wunderlich, 2004*n** ..... Pa Baltic amber

NESTICIDAE Simon, 1894 ..... **Palaeogene – Recent**

† ***Balticonesticus*** **Wunderlich, 1986** ..... **Palaeogene**

793. *Balticonesticus flexuosus* Wunderlich, 1986* ..... Pa Baltic amber

***Eidmanella* Roewer, 1935** ..... **Quaternary**

794. *Eidmanella pallida* (Emerton, 1875) **[Recent]** ..... Qt Madagascar copal

† ***Eopopino* Petrunkevitch, 1942** ..... **Palaeogene**

795. *Eopopino budrysi* Eskov & Marusik, 1992 ..... Pa Baltic amber

796. *Eopopino inopinatus affinis* Wunderlich, 1986 ..... Pa Baltic amber

797. *Eopopino inopinatus inopinatus* Wunderlich, 1986 ..... Pa Baltic amber

798. *Eopopino longipes* Petrunkevitch, 1942* ..... Pa Baltic amber

799. *Eopopino palanga* Eskov & Marusik, 1992 ..... Pa Baltic amber

800. *Eopopino rarus rarus* Wunderlich, 1986 ..... Pa Baltic amber

801. *Eopopino rarus solitarius* Wunderlich, 1986 ..... Pa Baltic amber

802. *Eopopino rudloffi* Wunderlich, 2004*o* ..... Pa Bitterfeld amber

Eopopino sp. *in* Wunderlich (1986) ..... Pa Baltic amber

† ***Heteronesticus* Wunderlich, 1986** ..... **Palaeogene**

803. *Heteronesticus magnoparacymbialis* Wunderlich, 1986* ..... Pa Baltic amber

† ***Hispanonesticus* Wunderlich, 1986** ..... **Neogene**

804. *Hispanonesticus latopalpus* Wunderlich, 1986* ..... Ne Dominican amber

CYATHOLIPIDAE Simon, 1894 ..... **Palaeogene – Recent**

= TEEMENAARIDAE Davies, 1978

† ***Balticolipus* Wunderlich, 2004*m*** ..... **Palaeogene**

805. *Balticolipus kruemmeri* Wunderlich, 2004*m** ..... Pa Baltic / Bitt. amber

† ***Cyathosuccinus* Wunderlich, 2004*m*** ..... **Palaeogene**

806. *Cyathosuccinus elongatus* Wunderlich, 2004*m** ..... Pa Baltic amber

† ***Erigolipus* Wunderlich, 2004*m*** ..... **Palaeogene**

807. *Erigolipus griswoldi* Wunderlich, 2004*m** ..... Pa Baltic amber

† ***Spinilipus* Wunderlich, 1993*b*** ..... **Palaeogene**

808. *Spinilipus bispinosus* Wunderlich, 2004*m* ..... Pa Bitterfeld amber

809. *Spinilipus curvatus* Wunderlich, 2004*m* ..... Pa Bitterfeld amber

810. *Spinilipus glinki* Wunderlich, 2004*m* ..... Pa Baltic amber

811. *Spinilipus kerneggeri* Wunderlich, 1993*b** ..... Pa Baltic amber

812. *Spinilipus longembolus* Wunderlich, 2004*m* ..... Pa Baltic amber

† ***Succinilipus* Wunderlich, 1993*b*** ..... **Palaeogene**

813. *Succinilipus abditus* Wunderlich, 2004*m* ..... Pa Baltic / Bitt. amber

814. *Succinilipus aspinosus* Wunderlich, 2004*m* ..... Pa Bitterfeld amber

815. *Succinilipus saxoniensis* Wunderlich, 1993*b* ..... Pa Bitterfeld amber

816. *Succinilipus similis* Wunderlich, 2004*m* ..... Pa Bitterfeld amber

817. *Succinilipus teuberi* Wunderlich, 1993*b** ..... Pa Baltic amber

Succinilipus sp. *in* Wunderlich (2004*m*) ..... Pa Baltic / Bitt. Amber

PHYSOGLENIDAE Petrunkevitch, 1928 ..... **Recent**

no fossil record

PIMOIDAE Wunderlich, 1986 ..... **Palaeogene – Recent**

***Pimoa* Chamberlin & Ivie, 1943** ..... **Palaeogene – Recent**

818. *Pimoa expandens* Wunderlich, 2004*r* ..... Pa Baltic amber
819. *Pimoa (Eopimoa) hormigai* Wunderlich, 2004*r* ..... Pa Baltic amber
820. *Pimoa inopinata* Wunderlich, 2004*r* ..... Pa Baltic amber
821. *Pimoa liedtkei* Wunderlich, 2004*r* ..... Pa Baltic amber
822. *Pimoa lingua* Wunderlich, 2004*r* ..... Pa Baltic amber
823. *Pimoa (Eopimoa) longiscapus* Wunderlich, 2008*a* ..... Pa Baltic amber
824. *Pimoa multicuspuli* Wunderlich, 2004*r* ..... Pa Baltic amber
825. *Pimoa (Eopimoa) obruens* Wunderlich, 2008*a* ..... Pa Baltic amber

Pimoa sp. *in* Wunderlich (2004*r*) ..... Pa Baltic amber

Pimoa (Eopimoa) sp. *in* Wunderlich (2008*a*) ..... Pa Baltic amber

PUMILIOPIMOIDAE Wunderlich, 2008*a* ..... **Palaeogene – Recent**

† ***Pumiliopimoa* Wunderlich, 2008*a*** ..... **Palaeogene**

826. *Pumiliopimoa parma* Wunderlich, 2008*a** ..... Pa Baltic amber

LINYPHIIDAE Blackwall, 1859 ..... **Cretaceous – Recent**

= MICRYPHANTIDAE Bertkau, 1878*a*

= ERIGONIDAE Simon, 1884*c*

= SINOPIMOIDAE Li & Wunderlich, 2008

?Linyphiidae gen. et sp. indet *in* McAlpine & Martin (1969) ..... K Canadian amber

Linyphiidae gen. et sp. indet *in* Penney (2002) ..... K New Jersey amber

Linyphiidae gen. et sp. indet *in* Schmidt *et al*. (2010) ..... Ne Ethiopian amber

Linyphiinae gen. et sp. indet *in* Penney & Selden (2002) ..... K Lebanese amber

Wunderlich (2012*d*) and Wunderlich & Müller (2018) questioned the veracity of the Cretaceous linyphiids

† ***Agynetiphantes* Wunderlich, 2004*s*** ..... **Palaeogene**

827. *Agynetiphantes gibbiferus* Wunderlich, 2004*s** ..... Pa Baltic amber

***Ceratinopsis* Emerton, 1882** ..... **Quaternary – Recent**

828. *Ceratinopsis deformans* (Wunderlich, 1998) ..... Qt Madagascan copal

Cnephalocotes* Simon, 1884*c ..... **Quaternary – Recent**

829. *Cnephalocotes obscurus* (Blackwall, 1834*b*) **[Recent]** ..... Qt England

† ***Custodela* Petrunkevitch, 1942** ..... **Palaeogene**

= † *Obnisus* Petrunkevitch, 1942 [tenative synonomy]

830. *Custodela acuta* Wunderlich, 2004*s* ..... Pa Baltic amber
831. *Custodela acutula* Wunderlich, 2004*s* ..... Pa Bitterfeld amber
832. *Custodela bispina* Wunderlich, 2004*s* ..... Pa Bitterfeld amber
833. *Custodela bispinosa* Wunderlich, 2004*s* ..... Pa Bitterfeld amber
834. *Custodela cheiracantha* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber
835. *Custodela clava* Wunderlich, 2004*s* ..... Pa Baltic amber
836. *Custodela curva* Wunderlich, 2004*s* ..... Pa Baltic amber

837. *Custodela curvata* Wunderlich, 2004*s* ..... Pa Bitterfeld amber
838. *Custodela divergens* Wunderlich, 2004*s* ..... Pa Baltic amber
839. *Custodela expandens* Wunderlich, 2004*s* ..... Pa Baltic amber
840. *Custodela falcata* Wunderlich, 2004*s* ..... Pa Baltic amber
841. *Custodela femurspinosa* Wunderlich, 2004*s* ..... Pa Bitterfeld amber
842. *Custodela henningseni* Wunderlich, 2004*s* ..... Pa Baltic amber
843. *Custodela kochi* Wunderlich, 2004*s* ..... Pa Baltic amber
844. *Custodela lamellata* (Wunderlich, 1988) ..... Pa Baltic amber
845. *Custodela lanx* Wunderlich, 2004*s* ..... Pa Baltic amber
846. *Custodela oblonga* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
847. *Custodela obtusa* Wunderlich, 2004*s* ..... Pa Baltic amber
848. ?*Custodela parva* Wunderlich, 2004*s* ..... Pa Bitterfeld amber
849. *Custodela pseudokochi* Wunderlich, 2004*s* ..... Pa Baltic amber
850. *Custodela stridulans* Wunderlich, 2004*s* ..... Pa Bitterfeld amber
851. *Custodela tenuipes* (Petrunkevitch, 1942) ..... Pa Baltic amber
852. *Custodela tibialis* Wunderlich, 2004*s* ..... Pa Baltic amber

Custodela sp. *in* Wunderlich (2004*s*) ..... Pa Bitterfeld amber

† ***Custodelela* Wunderlich, 2004s** ..... **Palaeogene**

853. *Custodelela hamata* Wunderlich, 2004*s** ..... Pa Bitterfeld amber

† ***Eolabulla* Wunderlich, 2004s** ..... **Palaeogene**

854. *Eolabulla falcata* Wunderlich, 2004*s* ..... Pa Baltic amber
855. *Eolabulla gladiformis* Wunderlich, 2004*s* ..... Pa Baltic amber
856. *Eolabulla laminata* Wunderlich, 2004*s** ..... Pa Baltic amber
857. *Eolabulla perforata* Wunderlich, 2004*s* ..... Pa Baltic amber
858. *Eolabulla sagitta* Wunderlich, 2004*s* ..... Pa Baltic amber
859. *Eolabulla similis* Wunderlich, 2004*s* ..... Pa Baltic amber

Eolabulla sp. 1–2 *in* Wunderlich (2004*s*) ..... Pa Baltic amber

† ***Eophantes* Wunderlich, 2004s** ..... **Palaeogene**

860. *Eophantes complicatus* Wunderlich, 2004*s** ..... Pa Baltic amber
861. ?*Eophantes seorsum* Wunderlich, 2012*c* ..... Pa Baltic amber

***Erigone* Audouin, 1826** ..... **Neogene – Recent**

862. *Erigone atra* Blackwall, 1833 **[Recent]** ..... Qt England
863. ?*Erigone dechenii* Bertkau, 1878*b* ..... Ne Rott, Germany

Erigone sp. *in* Hopkins *et al*. (1976) ..... Qt Alaska

***Floricomus* Crosby & Bishop, 1925** ..... **Neogene – Recent**

864. *Floricomus fossilis* Penney, 2005*c* ..... Ne Dominican amber

***Gonatium* Menge, 1868** ..... **Quaternary – Recent**

865. *Gonatium rubens* (Blackwall, 1833) **[Recent]** ..... Qt England

***Hypselistes* Simon, 1894** ..... **Quaternary – Recent**

866. *Hypselistes jacksoni* (O. P.-Cambridge, 1902) **[Recent]** ..... Qt England

Linyphia* Latreille, 1804*a ..... **Palaeogene – Recent**

867. *Linyphia andraei* Bertkau, 1878*b* ..... Ne Rott, Germany
868. *Linyphia byrami* Cockerell, 1925 ..... Pa Green River
869. *Linyphia florissanti* Petrunkevitch, 1922 ..... Pa Florissant
870. *Linyphia pachygnathoides* Petrunkevitch, 1922 ..... Pa Florissant
871. *Linyphia quievreuxi* Berland, 1939 ..... Pa Aix-en-Provence
872. *Linyphia retensa* Scudder, 1890*a* ..... Pa Florissant
873. *Linyphia rottensis* Bertkau, 1878*b* ..... Ne Rott, Germany
874. *Linyphia seclusa* (Scudder, 1890*a*) ..... Pa Florissant

† ***Madagascarphantes* Wunderlich, 2012*a*** ..... **Quaternary**

875. *Madagascarphantes vomerans* Wunderlich, 2012*a** ..... Qt Madagascan copal

† ***Malepellis* Petrunkevitch, 1971** ..... **Neogene**

876. *Malepellis extincta* Petrunkevitch, 1971* ..... Ne Chiapas amber

***Meioneta* Hull, 1920** ..... **Neogene – Recent**

877. *Meioneta bigibber* (Wunderlich, 1988 ..... Ne Dominican amber
878. *Meioneta fastigata* (Wunderlich, 1988) ..... Ne Dominican amber
879. *Meioneta separata* (Wunderlich, 1988) ..... Ne Dominican amber

Meioneta sp. *in* Wunderlich (1988) ..... Ne Dominican amber

***Micryphantes* C. L. Koch, 1833** ..... **Palaeogene**

880. *Micryphantes molybdinus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
881. *Micryphantes regularis* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Mystagogus* Petrunkevitch, 1942** ...[Wunderlich suggests possibly in Cyatholipidae] **Palaeogene**

882. *Mystagogus dubius* Petrunkevitch, 1958 ..... Pa Baltic amber
883. *Mystagogus glaber* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Paralabulla* Wunderlich, 2004*s*** ..... **Palaeogene**

884. *Paralabulla bitterfeldensis* Wunderlich, 2004*s** ..... Pa Bitterfeld amber
885. ?*Paralabulla dubia* Wunderlich, 2004*s* ..... Pa Baltic amber
886. *Paralabulla succinifera* Wunderlich, 2004*s* ..... Pa Baltic amber

Paralabulla sp. *in* Wunderlich (2004*s*, 2012*c*) ..... Pa Bitterfeld amber

Pocadicnemis* Simon, 1884*c ..... **Quaternary – Recent**

887. *Pocadicnemis pumila* (Blackwall, 1841) **[Recent]** ..... Qt England

***Savignia* Blackwall, 1833** ..... **Quaternary – Recent**

888. *Savignia frontata* Blackwall, 1833 **[Recent]** ..... Qt England

***Selenyphantes* Gertsch & Davis, 1946** ..... **Neogene – Recent**

= † *Palaeolinyphia* Wunderlich, 1986

889. *Selenyphantes flagellifera* (Wunderlich, 1986) ..... Ne Dominican amber

† ***Succineta* Wunderlich, 2004*s*** ..... **Palaeogene**

890. *Succineta brevispina* Wunderlich, 2004*s* ..... Pa Baltic amber
891. *Succineta discoidalis* Wunderlich, 2004*s** ..... Pa Baltic amber

Succineta sp. *in* Wunderlich (2004*s*) ..... Pa Baltic amber

† ***Succiphantes* Wunderlich, 2004*s*** ..... **Palaeogene**

892. *Succiphantes tanasevitchi* Wunderlich, 2004*s* ..... Pa Baltic amber

893. *Succiphantes velteni* Wunderlich, 2004*s** ..... Pa Baltic amber

***Toschia* Caporiacco, 1949** ..... **Quaternary – Recent**

894. ?*Toschia fossilis* Wunderlich, 2004*as* ..... Qt Madagascan copal

ERESIDAE C. L. Koch, 1851 ..... **?Miocene – Recent**

no body fossil record, but a web attributed to the extant genus *Seothyra* was described by Pickford (2000) from Miocene aeolianites in the Namib Desert of Namibia

DEINOPOIDEA C. L. Koch, 1851 ..... **Jurassic – Recent**

Stem Deinopoidea

† ***Zhizhu* Selden, Ren & Shih, 2016** ..... **Jurassic – Cretaceous**

895. *Zhizhu daohugouensis* Selden, Ren & Shih, 2016* ..... J Daohugou

896. *Zhizhu jeholensis* Selden, Ren & Shih, 2016 ..... K Jehol Biota

† **BURMADICTYNIDAE Wunderlich, 2017*c*** ..... **Cretaceous**

† ***Burmadictyna* Wunderlich, 2008*d*** ..... **Cretaceous**

?*Burmadictyna* sp. *in* Wunderlich (2015*b*) ..... K Burmese amber

Burmadictyna sp. indet *in* Wunderlich (2017*c*) ..... K Burmese amber

897. *Burmadictyna clava* Wunderlich, 2015*b* ..... K Burmese amber

898. *Burmadictyna excavata* Wunderlich, 2015*b* ..... K Burmese amber

899. *Burmadictyna pecten* Wunderlich, 2008*d** ..... K Burmese amber

900. *Burmadictyna postcopula* Wunderlich, 2017*c* ..... K Burmese amber

† ***Eodeinopis* Wunderlich, 2017*c*** ..... **Cretaceous**

901. *Eodeinopis longipes* Wunderlich, 2017c* ..... K Burmese amber

† **SALTICOIDIDAE Wunderlich, 2008*d*** ..... **Cretaceous**

† ***Palaeomicromennus* Penney, 2003** ..... **Cretaceous**

902. *Palaeomicromenneus lebanensis* Penney, 2003*b** ..... K Lebanese amber

† ***Salticoidus* Wunderlich, 2008*d*** ..... **Cretaceous**

903. *Salticoidus kaddumiorum* Wunderlich, 2008*d** ..... K Jordanian amber

DEINOPIDAE C. L. Koch, 1851 ..... **Cretaceous – Recent**

***Deinopis* MacLeay, 1839** ..... **Quaternary – Recent**

904. *Deinopis* ?*madagascariensis* Lenz, 1886 **[Recent]** ..... Qt Madagascar copal

† ***Deinopoides* MacLeay, 1839** ..... **Cretaceous**

905. *Deinopoides tranquillus* Wunderlich, 2017*c* ..... K Burmese amber

Menneus* Simon, 1876*b ..... **Palaeogene – Recent**

906. ?*Menneus pietrzeniukae* Wunderlich, 2004*g* ..... Pa Baltic amber

?*Menneus* sp. 1–3 *in* Wunderlich (2004*g*) ..... Pa Baltic amber

SYNAPHRIDAE Wunderlich, 1986 ..... **Palaeogene – Recent**

† ***Iardinidis* Wunderlich 2004*k*** ..... **Palaeogene**

907. *Iardinidis brevipes* Wunderlich, 2004*k** ..... Pa Baltic amber

OECOBIOIDEA Blackwall, 1862 ..... **Cretaceous – Recent**

Oecobioidea fam. indet. *in* Wunderlich (2008*d*) ..... K Burmese amber

Oecobioidea indet. *in* Wunderlich 2015*b* ..... K Jordanian amber

HERSILIIDAE Thorell, 1870*a* ..... **Cretaceous – Recent**

= CHALINUROIDAE Thorell, 1873

Hersiliidae sp. 1–3 *in* Wunderlich (2004*d*) ..... Pa Baltic amber

Hersiliidae sp. *in* Wunderlich (2011*f*) ..... Qt Madagascar copal

Hersiliidae indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

† ***Burmesiola*** **Wunderlich, 2011*i*** ..... **Cretaceous**

908. *Burmesiola cretacea* Wunderlich, 2011*i** ..... K Burmese amber

909. *Burmesiola daviesi* Wunderlich, 2015*b* ..... K Burmese amber

† ***"Fictotama*** **Petrunkevitch, 1963 (*nomen dubium*)"** ..... **Neogene**

Wunderlich 2011*f* placed a new species in this genus, which was previously considered a *nomen dubium*. He did not formally revalidate the genus

910. *"Fictotama" maculosa* Wunderlich, 2011*g* ..... Ne Dominican amber

† ***Gerdia*** **Menge, 1869** ..... **Palaeogene**

911. *Gerdia myura* Menge, 1869* ..... Pa Baltic amber

† ***Gerdiopsis*** **Wunderlich, 2004*e*** ..... **Palaeogene**

912. *Gerdiopsis infrigens* Wunderlich, 2004*e** ..... Pa Baltic amber

† ***Gerdiorum*** **Wunderlich 2004*e*** ..... **Palaeogene**

913. *Gerdiorum inflexum* Wunderlich 2004*e** ..... Pa Baltic amber

Hersilia **Audouin, 1826** ..... **Palaeogene – Recent**

= † *Hersiliopsis* Wunderlich, 2004*e*

914. *Hersilia aquisextana* Gourret, 1887 ..... Pa Aix-en-Provence

915. *Hersilia longipes* Giebel, 1856 ..... Pa Baltic amber

916. *Hersilia madagascarensis* (Wunderlich, 2004*e*) ..... Qt–R Madagas. copal

917. ?*Hersilia miranda* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Hersiliana*** **Wunderlich, 2004*e*** ..... **Quaternary – Recent**

918. *Hersiliana brevipes* Wunderlich, 2004*e** ..... Qt Madagascan copal

Hersiliola **Thorell, 1870** ..... **Palaeogene – Recent**

Hersiliola sp. *in* Selden & Wang (2014) ..... Pa Green River

† ***Prototama*** **Petrunkevitch, 1971** ..... **Neogene**

= † *Priscotama* Petrunkevitch, 1971

919. *Prototama antiqua* (Petrunkevitch, 1971) ..... Ne Chiapas amber

920. *Prototama maior* (Wunderlich, 1988) ..... Ne Dominican amber

921. *Prototama media* (Wunderlich, 1988) ..... Ne Dominican amber

922. *Prototama minor* (Wunderlich, 1987) ..... Ne Dominican amber

923. *Prototama succinea* Petrunkevitch, 1971* ..... Ne Chiapas amber

Prototama sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Spinasilia*** **Wunderlich, 2015*b*** ..... **Cretaceous**

924. *Spinasilia dissoluta* Wunderlich, 2015*b** ..... K Burmese amber

† **BURMASCUTIDAE Wunderlich, 2008*d*** ..... **Cretaceous**

† ***Burmascutum* Wunderlich, 2008*d*** ..... **Cretaceous**

925. *Burmascutum aenigma* Wunderlich, 2008*d** ..... K Burmese amber

926. *Burmascutum brevis* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

OECOBIIDAE Blackwall, 1862 ..... **Cretaceous – Recent**

= UROCTEIDAE Thorell, 1869

Oecobiidae indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

† ***Lebanoecobius* Wunderlich, 2004*e*** ..... **Cretaceous**

927. *Lebanoecobius schleei* Wunderlich, 2004e* ..... K Lebanese amber

† ***Mizalia* C. L. Koch & Berendt, 1854** ..... **Palaeogene**

= † *Paruroctea* Petrunkevitch, 1942

928. *Mizalia blauvelti* (Petrunkevitch, 1942) ..... Pa Baltic amber

929. *Mizalia gemini* Wunderlich, 2004*e* ..... Pa Baltic amber

930. *Mizalia rostrata* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

i. = *Mizalia pilosula* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

931. *Mizalia spirembolus* Wunderlich, 2004*e* ..... Pa Baltic amber

Mizalia sp. *in* Wunderlich (2011*h*) ..... Pa Baltic/BItter. amber

***Oecobius* Lucas, 1846** ..... **?Cretaceous – Recent**

932. *Oecobius piliformis* Wunderlich, 1988 ..... Ne Dominican amber

?*Oecobius* sp. indet *in* Penney (2002) ..... K New Jersey amber

† ***Retrooecobius* Wunderlich, 2015*b*** ..... **Cretaceous**

933. *Retrooecobius chomskyi* Wunderlich, 2015*b** ..... K Burmese amber

934. *Retrooecobius convexus* Wunderlich, 2015*b* ..... K Burmese amber

***Uroctea* Dufour, 1820** ..... **Palaeogene – Recent**

935. *Uroctea galloprovincialis* Gourret, 1887 ..... Pa Aix-en-Provence

† ***Zamilia* Wunderlich, 2008d** ..... **Cretaceous**

936. *Zamilia aculeopectens* Wunderlich, 2015*b* ..... K Burmese amber

937. *Zamilia antecessor* Wunderlich, 2008*d** ..... K Burmese amber

938. *Zamilia quattuormammillae* Wunderlich, 2015*b* ..... K Burmese amber

Zamilia sp. indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

'CANOE TAPETUM' CLADE ..... **Jurassic – Recent**

ORBICULARIAE Walckenaer, 1802 ..... **Jurassic – Recent**

ULOBORIDAE Thorell, 1869 ..... **?Jurassic – Recent**

Uloboridae indet. *in* Wunderlich (2011*f*) ..... Qt Madagascar copal

Uloboridae indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

Uloboridae *incerate sedis in* Selden & Wang (2014) ..... Pa Green River

† ***Bicalamistrum* Wunderlich, 2015*b*** ..... **Cretaceous**

939. *Bicalamistrum mixtum* Wunderlich, 2015*b* ..... K Burmese amber

† ***Burmasuccinus* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

940. *Burmasuccinus bulla* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Burmuloborus* Wunderlich, 2008*d*** ..... **Cretaceous**

941. *Burmuloborus antefixus* Wunderlich, 2015*b* ..... K Burmese amber

942. *Burmuloborus parvus* Wunderlich, 2008*d** ..... K Burmese amber

943. ?*Burmuloborus prolongatus* Wunderlich, 2015*b* ..... K Burmese amber

?*Burmuloborus* sp. indet. *in* Wunderlich, 2015*b* ..... K Burmese amber

† ***Eomiagrammopes* Wunderlich, 2004*f*** ..... **Palaeogene**

944. *Eomiagrammopes maior* Wunderlich, 2004*f* ..... Pa Baltic amber

945. *Eomiagrammopes minor* Wunderlich, 2004*f* ..... Pa Baltic amber

946. *Eomiagrammopes semiapertus* Wunderlich, 2011*h* ..... Pa Baltic amber

947. *Eomiagrammopes singularis* Wunderlich, 2004*f** ..... Pa Baltic amber

948. *Eomiagrammopes spinipes* Wunderlich, 2004*f* ..... Pa Baltic amber

Eomiagrammopes sp. 1–2 *in* Wunderlich (2004*f*) ..... Pa Baltic amber

?*Eomiagrammopes* sp. *in* Wunderlich (2004*f*) ..... Pa Baltic amber

† ***Eotibiaapophysis* Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

949. *Eotibiaapophysis reliquus* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Furculoborus* Wunderlich, 2017*c*** ..... **Cretaceous**

950. *Furculoborus patellaris* Wunderlich, 2017*c* ..... K Burmese amber

† ***Hyptiomopes* Wunderlich, 2004*f*** ..... **Palaeogene**

951. *Hyptiomopes bitterfeldensis* Wunderlich 2004*f** ..... Pa Bitterfeld amber

?*Hyptiomopes* sp. *in* Wunderlich (2004*f*) ..... Pa Bitterfeld amber

***Hyptiotes* Walckenaer, 1837** ..... **Palaeogene – Recent**

= † *Androgeus* C. L. Koch & Berendt, 1854

952. *Hyptiotes convexus* Wunderlich, 2004*f* ..... Pa Baltic amber

953. *Hyptiotes glaber* Wunderlich, 2004*f* ..... Pa Baltic amber

954. *Hyptiotes saetosus* Wunderlich, 2004*f* ..... Pa Baltic amber

955. *Hyptiotes stellatus* Wunderlich, 2004*f* ..... Pa Baltic amber

956. *Hyptiotes triqueter* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

† ***Jerseyuloborus* Wunderlich, 2011*i*** ..... **Cretaceous**

957. *Jerseyuloborus longisoma* Wunderlich, 2011*i** ..... K New Jersey amber

† ***Kachin* Wunderlich, 2017*c*** ..... **Cretaceous**

958. *Kachin fruticosus* Wunderlich, 2017*c** ..... K Burmese amber

959. *Kachin fruticosoides* Wunderlich, 2017*c* ..... K Burmese amber

960. *Kachin serratus* Wunderlich *in* Wunderlich & Müller, 2018 ..... K Burmese amber

***Miagrammopes* O. P.-Cambridge, 1870** ..... **Palaeogene – Recent**

961. *Miagrammopes dominicanus* Wunderlich, 2004*e* ..... Ne Dominican amber

Miagrammopes sp. *in* Penney (2001) ..... Ne Dominican amber

Miagrammopes sp. *in* Wunderlich (2011*f*) ..... Qt Madagascar copal

Miagrammopes sp. *in* Selden & Wang (2014) ..... Pa Green River

† ***Microuloborus*** **Wunderlich, 2015*b*** ..... **Cretaceous**

962. *Microuloborus birmanicus* Wunderlich, 2015*b** ..... K Burmese amber

† ***Ocululoborus*** **Wunderlich, 2012*d*** ..... **Cretaceous**

963. *Ocululoborus curvatus* Wunderlich, 2012*d** ..... K Burmese amber

† ***Opellianus*** **Wunderlich, 2004*f*** ..... **Palaeogene**

964. *Opellianus excellens* Wunderlich, 2004*f** ..... Pa Baltic amber

965. *Opellianus kazimierasi* Wunderlich 2004*f* ..... Pa Baltic amber

966. *Opellianus ludwigi* Wunderlich 2004*f* ..... Pa Baltic amber

† ***Palaeomiagrammopes*** **Wunderlich, 2008*d*** ..... **Cretaceous**

967. *Palaeomiagrammopes vesica* Wunderlich, 2008*d** ..... K Burmese amber

† ***Palaeouloborus*** **Selden, 1990** ..... **Cretaceous**

968. *Palaeouloborus lacasae* Selden, 1990* ..... K Sierra de Montsech

† ***Paramiagrammopes*** **Wunderlich, 2008*d*** ..... **Cretaceous**

969. *Paramiagrammopes cretaceus* Wunderlich, 2008*d** ..... K Burmese amber

970. *Paragrammopes* [*sic*] *longiclypeus* Wunderlich, 2015*b* ..... K Burmese amber

971. *Paramiagrammopes patellidens* Wunderlich, 2015*b* ..... K Burmese amber

972. *Paramiagrammopes pusillus* Wunderlich *in* Wunderlich & Müller, 2018 .. K Burmese amber

Paramiagrammopes sp. *in* Wunderlich (2008*d*) ..... K Burmese amber

† ***Planibulbus*** **Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

973. *Planibulbus longisoma* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† ***Propterkachin*** **Wunderlich, 2017*c*** ..... **Cretaceous**

974. *Propterkachin magnoculus* Wunderlich, 2017*c** ..... K Burmese amber

† ***Talbragaraneus*** **Selden & Beattie, 2013** [tentative familial assignment] ..... **Jurassic**

975. *Talbragaraneus jurassicus* Selden & Beattie, 2013* ..... J Talbragar, Australia

† ***Ulobomopes*** **Wunderlich, 2004*f*** ..... **Palaeogene**

976. *Ulobomopes unicus* Wunderlich, 2004*f** ..... Pa Baltic amber

† **FRATERULOBORIDAE Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

† ***Frateruloborus*** **Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

977. *Frateruloborus bulbosus* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† **ALTERULOBORIDAE Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

† ***Alteruloborus*** **Wunderlich *in* Wunderlich & Müller, 2018** ..... **Cretaceous**

978. *Alteruloborus araneoides* Wunderlich *in* Wunderlich & Müller, 2018* ..... K Burmese amber

† **MONGOLARACHNIDAE Selden, Shi & Ren, 2013** ..... **Jurassic – Cretaceous**

Wunderlich (2017*c*) considered it a haplogyne spider family, close to Pholcochyroceridae

† ***Longissipalpus*** **Wunderlich, 2015*b*** ..... **Cretaceous**

979. *Longissipalpus cochlea* Wunderlich, 2017*c* ..... K Burmese amber

980. *Longissipalpus magnus* Wunderlich, 2015*b* ..... K Burmese amber

981. *Longissipalpus maior* Wunderlich, 2015*b* ..... K Burmese amber

982. *Longissipalpus minor* Wunderlich, 2015*b** ..... K Burmese amber

† ***Mongolarachne*** **Selden, Shi & Ren, 2013** ..... **Jurassic**

983. *Mongolarachne jurassica* (Selden, Shih & Ren, 2011)* ..... J Daohugou

† ***Pedipalparaneus*** **Wunderlich, 2015*b*** ..... **Cretaceous**

984. *Pedipalparaneus seldeni* Wunderlich, 2015b* ..... K Burmese amber

TITANOECOIDEA Lehtinen, 1967 ..... **Quaternary – Recent**

TITANOECIDAE Lehtinen, 1967 ..... **Quaternary – Recent**

† ***Copaldictyna*** **Wunderlich, 2004*v*** ..... **Quaternary**

tentative transfer by Wunderlich (2012*a*)

985. *Copaldictyna madagascariensis* Wunderlich, 2004*v** ..... Qt Madagascan copal

PHYXELIDIDAE Lehtinen, 1967 ..... Recent

no fossil record

RETROLATERAL TIBIAL APOPHYSIS CLADE ..... **Cretaceous – Recent**

?RTA-clade *in* Wunderlich (2008*d*) ..... K Burmese amber

?RTA-clade *in* Wunderlich (2017*c*) ..... K Burmese amber

?RTA-clade *in* Wunderlich & Müller (2018) ..... K Burmese amber

ZODARIIDOIDEA Thorell, 1881 ..... **Palaeogene – Recent**

PENESTOMIDAE Simon, 1903 ..... **Recent**

no fossil record

ZODARIIDAE Thorell, 1881 ..... **Palaeogene – Recent**

= CRYPTOTHELIDAE L. Koch, 1872 [younger name protected by useage]

= † ADJUTORIDAE Petrunkevitch, 1942

Zodariidae gen. et sp. indet 1–4 *in* Wunderlich (2004*ae*) ..... Pa Baltic amber

† ***Adjutor*** **Petrunkevitch, 1942** ..... **Palaeogene**

986. *Adjutor deformis* Petrunkevitch, 1958 ..... Pa Baltic amber

987. *Adjutor mirabilis* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Admissor*** **Petrunkevitch, 1942** ..... **Palaeogene**

988. Admissor aculeatus Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Adorator*** **Petrunkevitch, 1942** ..... **Palaeogene**

989. *Adorator hispidus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic / Rovno amber

i. = *Segestria cylindrica* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

ii. = *Eresus curtipes* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

iii. = *Eresus monachus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

iv. = *Adorator brevipes* Petrunkevitch, 1942* ..... Pa Baltic amber

990. *Adorator samlandicus* Petrunkevitch, 1942 ..... Pa Baltic amber

† ***Angusdarion*** **Wunderlich, 2004*ae*** ..... **Palaeogene**

991. *Angusdarion humilis Wunderlich*, 2004*ae** ..... Pa Baltic amber

† ***Anniculus*** **Petrunkevitch, 1942** ..... **Palaeogene**

992. *Anniculus balticus* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Eocydrele*** **Petrunkevitch, 1958** ..... **Palaeogene**

993. *Eocydrele mortua* Petrunkevitch, 1958* ..... Pa Baltic amber

† ***Propago*** **Petrunkevitch, 1963** ..... **Neogene**

994. *Propago debilis* Petrunkevitch, 1963* ..... Ne Chiapas amber

† ***Spinizodarion*** **Wunderlich, 2004*ae*** ..... **Palaeogene**

995. *Spinizodarion ananulum* Wunderlich, 2004*ae** ..... Pa Baltic amber

† ***Zodariodamus*** **Wunderlich 2004*ae*** ..... **Palaeogene**

996. *Zodariodamus recurvatus* Wunderlich 2004*ae** ..... Pa Baltic amber

MARRONIDS

CHUMMIDAE Jocqué, 2001 ..... **Recent**

no fossil record

AMAUROBIIDAE Thorell, 1870*a* ..... **Palaeogene – Recent**

= CINIFLONIDAE Blackwall, 1841

[partly also Dictynidae; based on a generic synonym]

Amaurobiinae gen. et sp. indet. *in* Wunderlich (2004*u*) ..... Pa Baltic amber

AGELENIDAE C. L. Koch, 1837 ..... **Palaeogene – Recent**

= TEGENARIDAE Prach, 1860

= † INCEPTORIDAE Petrunkevitch, 1942

Agelena **Walckenaer, 1805** ..... **Palaeogene – Recent**

997. *Agelena tabida* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

Histopona **Thorell, 1869** ..... **Palaeogene – Recent**

998. *?Histopona anthracina* Bertkau, 1878*b* ..... Ne Rott, Germany

† ***Inceptor*** **Petrunkevitch, 1942** ..... **Palaeogene**

999. *Inceptor aculeatus* Petrunkevitch, 1942* ..... Pa Baltic amber

1000. *Inceptor dubius* Petrunkevitch, 1946 ..... Pa Baltic amber

Tegenaria **Latreille, 1804a** ..... **Palaeogene – Recent**

1001. *?Tegenaria fragmentum* Wunderlich, 2004*w* ..... Pa Baltic amber

1002. *Tegenaria lacazei* Gourret, 1887 ..... Pa Aix-en-Provence

1003. *?Tegenaria obtusa* Wunderlich, 2004*w* ..... Pa Baltic amber

1004. *Tegenaria virilis* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

DICTYNOIDEA O. P.-Cambridge, 1871 ..... **Palaeogene – Recent**

Dictynoidea *incertae sedis*

† ***Sinodictyna*** **Hong, 1982** ..... **Palaeogene**

1005. *Sinodictyna fushunensis* Hong, 1982* ..... Pa Fu Shun amber

CYBAEIDAE Simon, 1898*a* ..... **Palaeogene – Recent**

= ARGYRONETIDAE Thorell, 1870*a* [both family names protected by usage]

Argyroneta **Latreille, 1804*a*** ..... **?Neogene – Recent**

1006. *Argyroneta aquatica* (Clerck, 1757) **[Recent]** ..... Qt England

1007. ?*Argyroneta longipes* Heer, 1865 ..... Ne Öhningen

† ***Vectaraneus*** **Selden, 2001** ..... **Palaeogene**

1008. *Vectaraneus yulei* Selden, 2001* ..... Pa Bembridge Marls

HAHNIIDAE Bertkau, 1878*a* ..... **Palaeogene – Recent**

† ***Cymbiohahnia*** **Wunderlich, 2004*v*** ..... **Palaeogene**

1009. *Cymbiohahnia parens* Wunderlich, 2004*v* ..... Pa Baltic, Bitterfeld & Rovno amber

† ***Eohahnia*** **Petrunkevitch, 1958** ..... **Palaeogene**

1010. *Eohahnia succini* Petrunkevitch, 1958* ..... Pa Baltic amber

† ***Protohahnia*** **Wunderlich, 2004v** ..... **Palaeogene**

1011. *Protohahnia antiqua* Wunderlich, 2004*v** ..... Pa Baltic amber

1012. *Protohahnia tripartita* Wunderlich, 2004*v* ..... Pa Baltic amber

genus uncertain

1013. '*Tegenaria*' *obscura* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

DICTYNIDAE O. P.-Cambridge, 1871 ..... **Cretaceous – Recent**

= RHIOIDAE Thorell, 1873

= † ARTHRODICTYNIDAE Petrunkevitch, 1942

Dictynidae gen. et sp. indet *in* Penney (2002) ..... K New Jersey amber

Dictynidae sp. 1–2 *in* Wunderlich (2004v) ..... Pa Baltic amber

Dictynidae sp. 1–5 *in* Wunderlich (2008*d*) ..... K Burmese amber

Dictyninae indet *in* Wunderlich (2012*b*) ..... Pa Rovno amber

Argenna **Thorell, 1870a** ..... **Neogene – Recent**

1014. *Argenna fossilis* Petrunkevitch *in* Palmer, 1957 ..... Ne Mojave Desert

† ***Arthrodictyna*** **Petrunkevitch, 1942** ..... **Palaeogene**

1015. *Arthrodictyna segmentata* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Balticocryphoeca*** **Wunderlich, 2004v** ..... **Palaeogene**

1016. *Balticocryphoeca curvitarsis* Wunderlich, 2004*v** ..... Pa Baltic / Bitt. amber

† ***Brommellina*** **Wunderlich, 2004v** ..... **Palaeogene**

1017. *Brommellina longungulae* Wunderlich, 2004*v** ..... Pa Baltic amber

† ***Chelicirrum*** **Wunderlich, 2004*v*** ..... **Palaeogene**

1018. *Chelicirrum stridulans* Wunderlich, 2004*v** ..... Pa Baltic amber

† ***Cryphoezaga*** **Wunderlich, 2004*v*** ..... **Palaeogene**

1019. *Cryphoezaga dubia* Wunderlich, 2004*v** ..... Pa Baltic amber

Dictyna **Sundevall, 1833** ..... **Quaternary – Recent**

1020. *Dictyna rufa* Wunderlich, 2012*a* ..... Qt Madagascan copal

† ***Eobrommella*** **Wunderlich, 2004*v*** ..... **Palaeogene**

1021. *Eobrommella scutata* Wunderlich, 2004*v** ..... Pa Baltic amber

† ***Eocryphoeca*** **Petrunkevitch, 1946** ..... **Palaeogene**

1022. *Eocryphoeca bitterfeldensis* Wunderlich, 2004*v* ..... Pa Bitterfeld amber

1023. *Eocryphoeca electrina* Wunderlich, 2004*v* ..... Pa Baltic amber
1024. *Eocryphoeca falcata* Wunderlich, 2004*v* ..... Pa Baltic amber
1025. *Eocryphoeca gibbifera* Wunderlich, 2004*v* ..... Pa Baltic amber
1026. *Eocryphoeca gracilipes* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber
1027. *Eocryphoeca ligula* Wunderlich, 2004*v* ..... Pa Baltic amber
1028. *Eocryphoeca mammilla* Wunderlich, 2004*v* ..... Pa Baltic amber
1029. *Eocryphoeca splendens* Wunderlich, 2004*v* ..... Pa Baltic amber
Eocryphoeca sp. *in* Wunderlich (2004*v*) ..... Pa Baltic amber

† ***Eocryphoecara* Wunderlich, 2004*v*** ..... **Palaeogene**
1030. *Eocryphoecara abicera* Wunderlich, 2004*v** ..... Pa Baltic amber

† ***Eodictyna* Wunderlich, 2004*v*** ..... **Palaeogene**
1031. *Eodictyna communis* Wunderlich, 2004*v** ..... Pa Baltic amber

† ***Eolathys* Petrunkevitch, 1950** ..... **Palaeogene**
1032. *Eolathys debilis* Petrunkevitch, 1950 ..... Pa Baltic amber
1033. *Eolathys succini* Petrunkevitch, 1950* ..... Pa Baltic amber

† ***Flagelldictyna* Wunderlich, 2012*a*** ..... **Quaternary**
1034. *Flagelldictyna copalis* Wunderlich, 2012*a** ..... Qt Madagascar copal

† ***Gibbermastigusa* Wunderlich, 2004*v*** ..... **Palaeogene**
1035. *Gibbermastigusa lateralis* Wunderlich, 2004*v** ..... Pa Baltic amber

† ***Hispaniolyna* Wunderlich, 1988** ..... **Neogene**
1036. *Hispaniolyna hirsuta* Wunderlich, 1988 ..... Ne Dominican amber
1037. *Hispaniolyna magna* Wunderlich, 1988* ..... Ne Dominican amber

† ***Mastigusa* Menge *in* C. L. Koch & Berendt, 1854** ..... **Palaeogene**
= † *Eotetrilus* Wunderlich, 1982 [*nomen nudum*]
1038. *Mastigusa acuminata* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber
1039. *Mastigusa arcuata* Wunderlich, 2004*v* ..... Pa Baltic amber
1040. *Mastigusa bitterfeldensis* Wunderlich, 2004*v* ..... Pa Bitterfeld amber
1041. *Mastigusa laticymbium* Wunderlich, 2004*v* ..... Pa Baltic amber
1042. *Mastigusa magnibulbus* Wunderlich, 2004*v* ..... Pa Bitterfeld amber
1043. *Mastigusa media* Wunderlich, 1986 ..... Pa Baltic amber
1044. *Mastigusa modesta* Wunderlich, 1986 ..... Pa Baltic amber
1045. *Mastigusa scutata* Wunderlich, 2004*v* ..... Pa Baltic amber
Mastigusa sp. *in* Wunderlich (2004*v*) ..... Pa Baltic amber

† ***Mizagalla* Wunderlich, 2004*v*** ..... **Palaeogene**
1046. *Mizagalla quattuor* Wunderlich, 2004*v** ..... Pa Baltic amber
1047. *Mizagalla tuberculata* Wunderlich, 2004*v* ..... Pa Baltic amber

† ***Palaeodictyna* Wunderlich, 1988** ..... **Neogene**
1048. *Palaeodictyna intermedia* Wunderlich, 1988 ..... Ne Dominican amber
1049. *Palaeodictyna longispina* Wunderlich, 1988 ..... Ne Dominican amber
1050. *Palaeodictyna singularis* Wunderlich, 1988 ..... Ne Dominican amber
1051. *Palaeodictyna spiculum* Wunderlich, 1988 ..... Ne Dominican amber

1052. *Palaeodictyna termitophila* Wunderlich, 1988* ..... Ne Dominican amber

1053. *Palaeodictyna unispina* Wunderlich, 1988 ..... Ne Dominican amber

† ***Palaeolathys* Wunderlich, 1986** ..... **Neogene**

1054. *Palaeolathys circumductus* Wunderlich, 1988..... Ne Dominican amber

1055. *Palaeolathys copalis* Wunderlich, 1986 ..... Qt Dominican copal

1056. *Palaeolathys quadruplex* Wunderlich, 1988 ..... Ne Dominican amber

1057. *Palaeolathys similis* Wunderlich, 1988 ..... Ne Dominican amber

1058. *Palaeolathys spinosa* Wunderlich, 1986* ..... Ne Dominican amber

Palaeolathys sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Protomastigusa* Wunderlich, 2004*v*** ..... **Palaeogene**

1059. *Protomastigusa composita* Wunderlich, 2004*v* ..... Pa Baltic amber

† ***Scopulyna* Wunderlich, 2004*v*** ..... **Palaeogene**

1060. *Scopulyna cursor* Wunderlich, 2004*v* ..... Pa Baltic amber

† ***Succinya* Wunderlich, 1988** ..... **Neogene**

1061. *Succinya longembolus* Wunderlich, 1988 ..... Ne Dominican amber

1062. *Succinya pulcher* Wunderlich, 1988* ..... Ne Dominican amber

1063. *Succinya spinipalpus* Wunderlich, 1988 ..... Ne Dominican amber

Thallumetus* Simon, 1892*b ..... **Quaternary – Recent**

1064. *Thallumetus copalis* Wunderlich, 2004*at* ..... Qt Colombian copal

CYCLOCTENIDAE Simon, 1898a ..... **Recent**

no fossil record

STIPHIDIIDAE Dalmas, 1917 ..... **Recent**

no fossil record

DESIDAE Pocock, 1895 ..... **Palaeogene – Recent**

***Myro* O. P.-Cambridge, 1876** ..... **Palaeogene – Recent**

1065. *Myro extinctus* Petrunkevitch, 1958 [belongs in Dictynidae?] ..... Pa Baltic amber

1066. *Myro hirsutus* Petrunkevitch, 1942 ..... Pa Baltic amber

AMPHINECTIDAE Forster & Wilton, 1973 ..... **Recent**

= NEOLANIDAE Forster & Wilton, 1973

no fossil record

SPARASSIDAE Bertkau, 1872 ..... **Palaeogene – Recent**

= HETEROPODIDAE Thorell, 1873

= MICROMMATIDAE Bertkau, 1878*a*

= EUSPARASSIDAE Järvi, 1912

Sparassidae sp. 1–2 *in* (Wunderlich 2008*c*) ..... Pa Baltic amber

† ***Caduceator* Petrunkevitch, 1942** ..... **Palaeogene**

1067. *Caduceator minutus* Petrunkevitch, 1942* ..... Pa Baltic amber

1068. *Caduceator quadrimaculatus* Petrunkevitch, 1950 ..... Pa Baltic amber

† ***Collacteus*** **Petrunkevitch, 1942** ..... **Palaeogene**

1069. *Collacteus captivus* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Eostaianus*** **Petrunkevitch, 1950** ..... **Palaeogene**

1070. *Eostaianus succini* Petrunkevitch, 1950* ..... Pa Baltic amber

† ***Eostasina*** **Petrunkevitch, 1942** ..... **Palaeogene**

1071. *Eostasina aculeata* Petrunkevitch, 1942* ..... Pa Baltic amber

Eusparassus **Simon 1903** ..... **Palaeogene – Recent**

1072. *Eusparassus crassipes* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

Heteropoda **Latreille, 1804*a*** ..... **Palaeogene – Recent**

= † *Retina* Hong, 1985

1073. *Heteropoda rpbusta* [*sic*] (Hong, 1985) ..... Ne Shanwang

NB: as '*H. robusta*' this would be a junior homonym of a living species.

Pseudosparianthis **Simon, 1887** ..... **Neogene – Recent**

1074. *Pseudosparianthis pfeifferi* (Wunderlich, 1988) ..... Ne Dominican amber

Zachria **L. Koch, 1875** ..... **Palaeogene – Recent**

an Australian genus; Wunderlich (2012*c*) regarded at least *Z. desiderablis* as gen. indet.

1075. *Zachria desiderabilis* Petrunkevitch, 1950 ..... Pa Baltic amber

1076. *Zachria peculiata* Petrunkevitch, 1946 ..... Pa Baltic amber

1077. *Zachria restincta* Petrunkevitch, 1958 ..... Pa Baltic amber

HOMALONYCHIDAE Simon, 1893 ..... **Recent**

no fossil record

OVAL CALAMISTRUM CLADE

UDUBIDAE Griswold & Polotow, 2015 ..... **Recent**

no fossil record

ZOROPSIDAE Bertkau, 1882 ..... **Palaeogene – Recent**

= ZOROCRATIDAE Dahl, 1913

= TENGELLIDAE Dahl, 1908

Zoropsidae sp. *in* Wunderlich (2004*x*) ..... Pa Baltic / Bitt. Amber

† ***Cymbioropsis*** **Wunderlich, 2017*a*** ..... **Palaeogene**

1078. *Cymbioropsis palpussutura* Wunderlich, 2017*a** ..... Pa Baltic amber

† ***Eomatachia*** **Petrunkevitch, 1942** ..... **Palaeogene**

1079. *Eomatachia barbarus* Wunderlich, 2004*x* ..... Pa Baltic amber

1080. *Eomatachia bipartita* Wunderlich, 2004*x* ..... Pa Baltic amber

1081. *Eomatachia divergens* Wunderlich, 2004*x* ..... Pa Baltic amber

1082. *Eomatachia duplex* Wunderlich, 2004*x* ..... Pa Baltic amber

1083. *Eomatachia latifrons* Petrunkevitch, 1942* ..... Pa Baltic amber

1084. *Eomatachia recedens* Wunderlich, 2004*x* ..... Pa Baltic amber

1085. *Eomatachia succini* (Petrunkevitch, 1942) ..... Pa Baltic amber

1086. *Eomatachia wegneri* Wunderlich, 2004*x* ..... Pa Baltic amber

1087. *Eomatachia xanthippe* Wunderlich, 2004*x* ..... Pa Baltic amber

† ***Eoprychia* Petrunkevitch, 1958** ..... **Palaeogene**

1088. *Eoprychia clara* Wunderlich, 2017*a* ..... Pa Baltic amber

1089. *Eoprychia succini* Petrunkevitch, 1958* ..... Pa Baltic amber

1090. *Eoprychia succinopsis* Wunderlich, 2004*x* ..... Pa Baltic amber

1091. *Eoprychia vicina* Wunderlich, 2004*x* ..... Pa Baltic amber

Eoprychia sp. *in* Wunderlich (2004*x*) ..... ?Pa not specified

† ***Pseudoeoprychia* Wunderlich, 2017*a*** ..... **Palaeogene**

1092. *Pseudoeoprychia triplex* Wunderlich, 2017*a** ..... Pa Baltic amber

† ***Succiniropsis* Wunderlich, 2004*x*** ..... **Palaeogene**

1093. *Succiniropsis kutscheri* Wunderlich, 2004*x** ..... Pa Baltic / Bitt. amber

1094. *Succiniropsis runcinata* Wunderlich, 2012*c* ..... Pa Baltic amber

1095. *Succiniropsis samlandica* Wunderlich, 2004*x* ..... Pa Baltic amber

† **INSECUTORIDAE Petrunkevitch, 1942** ..... **Palaeogene**

† ***Insecutor* Petrunkevitch, 1942** ..... **Palaeogene**

1096. *Insecutor aculeatus* Petrunkevitch, 1942* ..... Pa Baltic amber

1097. *Insecutor mandibulatus* Petrunkevitch, 1942 ..... Pa Baltic amber

1098. ?*Insecutor pecten* Wunderlich, 2004*y* ..... Pa Baltic amber

1099. *Insecutor rufus* Petrunkevitch, 1942 ..... Pa Baltic amber

1100. ?*Insecutor spinifer* Wunderlich, 2004*y* ..... Pa Baltic amber

?*Insecutor* sp. *in* Wunderlich (2004*y*) ..... Pa Baltic amber

† **SUCCINOMIDAE Wunderlich, 2012*c*** ..... **Palaeogene**

† ***Eohalinobius* Wunderlich, 2008*c*** ..... **Palaeogene**

1101. *Eohalinobius calefactus* Wunderlich, 2012*c* ..... Pa Baltic amber

1102. *Eohalinobius hiddenseeensis* Wunderlich, 2012*c* ..... Pa Baltic amber

1103. *Eohalinobius patina* Wunderlich, 2012*c* ..... Pa Baltic amber

1104. *Eohalinobius scutatus* Wunderlich, 2008*c* ..... Pa Baltic amber

† ***Succinomus* Wunderlich, 2008*c*** ..... **Palaeogene**

1105. *Succinomus duomammillae* Wunderlich, 2008*c* ..... Pa Baltic amber

1106. ?*Succinomus gibbosus* Wunderlich, 2012*c* ..... Pa Baltic amber

CTENIDAE Keyserling, 1877 ..... **Neogene – Recent**

= ACANTHOCTENIDAE Simon, 1892*b*

† ***Nanoctenus* Wunderlich, 1988** ..... **Neogene**

1107. *Nanoctenus longipes* Wunderlich, 1988* ..... Ne Dominican amber

SENOCULIDAE Simon, 1890 ..... **Recent**

= NEOTHEREUTOIDAE Holmberg, 1883 [based on a generic synonym]

no fossil record

OXYOPIDAE Thorell, 1870a ..... **Palaeogene – Recent**

= SPHASIDAE O. P.-Cambridge, 1871

= HAMATALIVIDAE Marx, 1890*b*

Oxyopidae sp. *in* Wunderlich 2004*ab* ..... Pa Bitterfeld amber

***Oxyopes* Latreille, 1804a** ..... **Palaeogene – Recent**

1108. *Oxyopes defectus* Wunderlich, 1988 ..... Ne Dominican amber

1109. '*Oxyopes*' *succini* Petrunkevitch, 1958 ..... Pa Baltic amber

Oxyopes sp. *in* Wunderlich (1988, 2004*ab*) ..... Ne Dominican amber

† ***Planoxyopes* Petrunkevitch, 1963** ..... **Neogene**

1110. *Planoxyopes eximius* Petrunkevitch, 1963* ..... Ne Chiapas amber

i.= *Planoxyopes fossilis* Wunderlich, 1988 [*lapsus*] ..... Ne Chiapas amber

PISAURIDAE Simon, 1890 ..... **Palaeogene – Recent**

= BRADYSTICHIDAE Simon, 1884

= DOLOMEDIDAE Simon, 1898*a*

= HALIDAE Jocqué, 1994

Pisauridae sp. *in* Wunderlich (1988) ..... Pa Dominican amber

Pisauridae sp. *in* Wunderlich (2004*z*) ..... Pa Baltic amber

Dolomedes* Latreille, 1804*a ..... **Quaternary – Recent**

1111. *Dolomedes fimbriatus* (Clerck, 1757) **[Recent]** ..... Qt England

† '***Linoptes***' **Menge *in* C. L. Koch & Berendt, 1854** ..... **Palaeogene**

= † *Eopisaurella* Petrunkevitch, 1958

see notes on *Linoptes* under Trechaleidae above!

1112. *?'Linoptes' valdespinosa* (Petrunkevitch, 1958)* ..... Pa Baltic amber

?'Linoptes' sp. 1–8 *in* Wunderlich (2004*z*) ..... Pa Baltic amber

† ***Palaeoperenethis* Selden & Penney, 2009** ..... **Palaeogene**

1113. *Palaeoperenethis thaleri* Selden & Penney, 2009* ..... Pa British Columbia

TRECHALEIDAE Simon, 1890 ..... **Palaeogene – Recent**

= TRICLARIDAE O. P.-Cambridge, 1877 [*nomen oblitum*]

= PERISSOBLEMMATIDAE O. P.-Cambridge, 1882*b* [based on a synonym]

Trechaleidae sp. *in* Wunderlich (2004*aa*) ..... Pa Baltic amber

† ***Eotrechalea* Wunderlich, 2004*aa*** ..... **Palaeogene**

1114. *Eotrechalea annulata* Wunderlich, 2004*aa** ..... Pa Baltic amber

† ***Esuritor* Petrunkevitch, 1942** ..... **Palaeogene**

1115. *Esuritor aculeatus* Petrunkevitch, 1958 ..... Pa Baltic amber

1116. *Esuritor spinipes* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Linoptes* Menge in C. L. Koch & Berendt, 1854** ..... **Palaeogene**

1117. *?'Linoptes' oculeus* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

Linoptes mentioned as a *nomen nudum* by Wunderlich (2004*z*); this species listed by Wunderlich (2004*aa*) under Trechaleidae and another species under Pisauridae (see below)

'LYCOSOIDEA' Sundevall, 1833 ..... **Cretaceous – Recent**

† ***Korearachne*** **Selden, Nam, Kim & Kim, 2012** ..... **Cretaceous**

1118. *Korearachne jinju* Selden, Nam, Kim & Kim, 2012* ..... K Sacheon, S. Korea

tentative assignment to Lycosoidea; disputed by Wunderlich (2012*d*) who suggested it could be a haplogyne spider in Pholcoidea or Leptonetoidea

LYCOSIDAE Sundevall, 1833 ..... **?Cretaceous – Recent**

Lycosidae gen. et sp. *in* Bottali (1975) ..... Qt Italy

Lycosidae gen. et sp. *in* Schawaller (1982*d*) ..... Ne Willershausen

Lycosidae gen. et sp. *in* Penney (2001) ..... Ne Dominican amber

Lycosidae gen. et sp. *in* Kim & Nam (2012) [unreliable record] ..... K Lioyuan, China

Alopecosa **Simon, 1885*b*** ..... **Quaternary – Recent**

1119. *Alopecosa ?pulverulenta* (Clerck, 1757) **[Recent]** ..... Qt England

† ***Dryadia*** **Zhang, Sun & Zhang, 1994** ..... **Palaeogene**

1120. *Dryadia acanthopoda* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang

Lycosa **Latreille, 1804*a*** ..... **Palaeogene – Recent**

1121. *Lycosa florissanti* Petrunkevitch, 1922 ..... Pa Florissant

1122. *Lycosa lithographica* Schawaller & Ono, 1979 ..... Ne Randecker Maar

1123. *Lycosa malleata* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang

1124. *Lycosa miocaena* Schawaller & Ono, 1979 ..... Ne Randecker Maar

1125. *Lycosa subterranea* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang

Pardosa **C. L. Koch, 1847** ..... **Quaternary – Recent**

1126. *Pardosa pullata* (Clerck, 1757) **[Recent]** ..... Qt England

Pardosa sp. *in* Scott (2003) ..... Qt England

Pirata **Sundevall, 1833** ..... **Quaternary – Recent**

1127. *Pirata ?piraticus (*Clerck, 1757) **[Recent]** ..... Qt England

Trochosa **C. L. Koch, 1847** ..... **Quaternary – Recent**

1128. *Trochosa terricola* Thorell, 1856 **[Recent]** ..... Qt England

† **PARATTIDAE Petrunkevitch, 1922** ..... **Palaeogene**

† ***Parattus*** **Petrunkevitch, 1922** ..... **Palaeogene**

1129. *Parattus evocatus* (Scudder, 1890*a*) ..... Pa Florissant

1130. *Parattus latitatus* (Scudder, 1890*a*) ..... Pa Florissant

1131. *Parattus oculatus* Petrunkevitch, 1922 ..... Pa Florissant

1132. *Parattus resurrectus* (Scudder, 1890*a*)* ..... Pa Florissant

PSECHRIDAE Simon, 1890 ..... **Recent**

no fossil record

THOMISIDAE Sundevall, 1833 ..... **Palaeogene – Recent**

= APHANTOCHILIDAE Thorell, 1873

= MISUMENIDAE Thorell, 1887

= STIPHROPODIDAE Simon, 1895

= XYSTICIDAE Dahl, 1912

= BORBOROPACTIDAE Wunderlich, 2004*ao*

Thomisidae gen. et sp. *in* Nishikawa (1974) ..... Qt Mizunami copal

Thomisidae gen. et sp. *in* Bottali (1975) ..... Qt Italy

Thomisidae gen. et sp. *in* Schawaller (1982*d*) ..... Ne Willershausen

Thomisidae gen. et sp. *in* Wunderlich (1988) ..... Ne Dominican amber

Thomisidae gen. et sp. 1–2 *in* Wunderlich (2004*ap*) ..... Pa Baltic amber

Thomisidae gen. et sp. *in* Garciá-Villafuerte (2006*b*) ..... Ne Chiapas amber

Thomisidae *incertae sedis in* Selden & Wang (2014) ..... Pa Green River

Coriarachne* Thorell, 1870*b ..... **Quaternary – Recent**

Coriarachne sp. *in* Cutler (1970) ..... Qt Wyoming

† ***Ecotona* Lin, Zhang & Wang, 1989** [ex Araneidae] ..... **Neogene**

1133. *Ecotona brunnea* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang

1134. *Ecotona pilulifera* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang

1135. *Ecotona transipeda* Lin, Zhang & Wang, 1989* ..... Ne Shanwang

† ***Facundia* Petrunkevitch, 1942** ..... **Palaeogene**

1136. *Facundia clara* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Fiducia* Petrunkevitch, 1950** ..... **Palaeogene**

1137. *Fiducia tenuipes* Petrunkevitch, 1950* ..... Pa Baltic amber

† ***Filiolella* Petrunkevitch, 1955*a*** ..... **Palaeogene**

= † *Filiola* Petrunkevitch, 1942 [preoccupied]

1138. *Filiolella argentata* (Petrunkevitch, 1942)* ..... Pa Baltic amber

† ***Heterotmarus* Wunderlich, 1988** ..... **Neogene**

1139. *Heterotmarus altus* Wunderlich, 1988* ..... Ne Dominican amber

† ***Komisumena* Ono, 1981** ..... **Neogene**

1140. *Komisumena rosae* Ono, 1981* ..... Ne Dominican amber

† ***Miothomisus* Zhang, Sun & Zhang, 1994** ..... **Neogene**

1141. *Miothomisus subnudus* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang

1142. *Miothomisus sylvaticus* Zhang, Sun & Zhang, 1994* ..... Ne Shanwang

Misumena* Latreille, 1804*a ..... **Palaeogene – Recent**

1143. *Misumena samlandica* Petrunkevitch, 1942 ..... Pa Baltic amber

† ***Palaeoxysticus* Wunderlich, 1985** ..... **Neogene**

1144. *Palaeoxysticus extinctus* Wunderlich, 1985 ..... Ne Randecker Maar

† ***Parvulus* Zhang, Sun & Zhang, 1994** ..... **Neogene**

1145. *Parvulus latissimus* Zhang, Sun & Zhang, 1994* ..... Ne Shanwang

† ***Succinaenigma* Wunderlich, 2004ap** ..... **Palaeogene**

1146. *Succinaenigma raptor* Wunderlich, 2004*ap** ..... Pa Baltic amber

† ***Succiniraptor* Wunderlich, 2004*ao*** ..... **Palaeogene**

1147. *Succiniraptor radiatus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

i. = *Succiniraptor paradoxus* Wunderlich, 2004ao* ..... Pa Baltic amber

***Synema* Simon, 1864** ..... **Palaeogene – Recent**

1148. *Synema enigmaticum* Berland, 1939 ..... Pa Aix-en-Provence

† ***Syphax*** **C. L. Koch & Berendt, 1854** ..... **Palaeogene**

1149. *Syphax asper* Petrunkevitch, 1950 ..... Pa Baltic amber

1150. *Syphax crassipes* Petrunkevitch, 1942 ..... Pa Baltic amber

1151. *Syphax fuliginosus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1152. *Syphax gracilis* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1153. *Syphax megacephalus* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

1154. *Syphax secedens* Wunderlich, 2015*a* ..... Pa Baltic amber

1155. *Syphax thoracicus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Thomisidites*** **Straus, 1967** ..... **Neogene**

1156. *Thomisidites hercynicus* Straus, 1967* ..... Ne Willershausen

† ***Thomisiraptor*** **Wunderlich, 2004*ap*** ..... **Palaeogene**

1157. *Thomisiraptor liedtkei* Wunderlich, 2004*ap** ..... Pa Baltic amber

Thomisus **Walckenaer, 1805** ..... **Palaeogene – Recent**

1158. *Thomisiraptor liedtkei* Wunderlich, 2004*ap** ..... Pa Baltic amber

1159. *Thomisus defossus* Scudder, 1890*a* ..... Pa Florissant

1160. *Thomisus disjunctus* Scudder, 1890*a* ..... Pa Florissant

1161. *Thomisus lividus* Heer, 1865 ..... Ne Öhningen

1162. *Thomisus resutus* Scudder, 1890*a* ..... Pa Florissant

1163. *Thomisus sulzeri* Heer, 1865 ..... Ne Öhningen

Xysticus **C. L. Koch, 1835** ..... **Palaeogene – Recent**

1164. ?*Xysticus annulipes* Bertkau, 1878*b* ..... Ne Rott, Germany

1165. *Xysticus archaeopalpus* Leech & Matthews, 1971 ..... Ne Alaska

1166. *Xysticus oeningensis* (Heer, 1865) ..... Ne Öhningen

Xysticus sp. *in* Protescu (1937) ..... Pa Romanian amber

PRODIDOMIDAE Simon, 1884*a* ..... **Quaternary – Recent**

= MILTIIDAE Thorell, 1873 [based on a generic synonym]

Prodidomus **Hentz, 1847** ..... **Quaternary – Recent**

1167. *Prodidomus madagascariensis* Wunderlich, 2011*c* ..... Qt Madagascar copal

DIONYCHA Petrunkevitch, 1928

"Thomisiformes" gen et. sp. 1 *in* Marusik *et al*. (2018) ..... Pa Sakhalinian amber

TROCHANTERIIDAE Karsch, 1879 ..... **Palaeogene – Recent**

= PLATORIDAE Simon, 1890

† ***Eotrochanteria*** **Wunderlich, 2004*am*** ..... **Palaeogene**

1168. *Eotrochanteria kruegeri* Wunderlich, 2004*am** ..... Pa Baltic amber

† ***Sosybius*** **C. L. Koch & Berendt, 1854** ..... **Palaeogene**

= † *Adamator* Petrunkevitch, 1942

= † *Adjunctor* Petrunkevitch, 1942

= † *Adulatrix* Petrunkevitch, 1942

1169. *Sosybius berendti* Wunderlich, 2004*am* ..... Pa Baltic amber
1170. *Sosybius decumana* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
1171. *Sosybius falcatus* Wunderlich, 2004*am* ..... Pa Baltic amber
1172. *Sosybius fusca* (Petrunkevitch, 1942) ..... Pa Baltic amber
1173. *Sosybius kochi* Wunderlich, 2004*am* ..... Pa Baltic amber
1174. *Sosybius lateralis* Wunderlich, 2004*am* ..... Pa Baltic amber
1175. *Sosybius longipes* Wunderlich, 2004*am* ..... Pa Baltic amber
1176. *Sosybius major* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
1177. *Sosybius minor* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber
1178. *Sosybius mizgirisi* Wunderlich, 2004*am* ..... Pa Baltic amber
1179. *Sosybius parva* (Petrunkevitch, 1942) ..... Pa Baltic amber
1180. *Sosybius perniciosus* Wunderlich, 2004*a* ..... Pa Baltic amber
1181. *Sosybius rufa* (Petrunkevitch, 1942) ..... Pa Baltic amber
1182. *Sosybius similis* Petrunkevitch, 1942 ..... Pa Baltic amber
1183. *Sosybius succineus* (Petrunkevitch, 1942) ..... Pa Baltic amber
1184. *Sosybius tibialis* Wunderlich, 2004*am* ..... Pa Baltic amber
1185. *Sosybius unispinosus* Wunderlich, 2004*am* ..... Pa Baltic amber
Sosybius sp. *in* Wunderlich (2004*am*, *ar*) ..... Pa Baltic / Rovno amber

† ***Thereola*** **Petrunkevitch, 1955** ..... **Palaeogene**

= † *Therea* Koch & Berendt, 1854 [preoccupied]

1186. *Thereola petiolata* (C. L. Koch & Berendt, 1854)* [♀ = ?*Dasuminia* sp. according to Wunderlich 2004*b*] ..... Pa Baltic amber
1187. *Thereola pubescens* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

† ***Trochanteridromulus*** **Wunderlich, 2004*am*** ..... **Palaeogene**

1188. *Trochanteridromulus glabripes* Wunderlich, 2004*am** ..... Pa Baltic amber

† ***Trochanteridromus*** **Wunderlich, 2004*am*** ..... **Palaeogene**

1189. *Trochanteridromus scutatus* Wunderlich, 2004*am** ..... Pa Baltic amber

† ***Veterator*** **Petrunkevitch, 1963** ..... **Neogene**

1190. *Veterator angustus* Wunderlich, 1988 ..... Ne Dominican amber
1191. *Veterator ascutum* Wunderlich, 1988 ..... Ne Dominican amber
1192. *Veterator extinctus* Petrunkevitch, 1963* ..... Ne Chiapas amber
1193. *Veterator incompletus* Wunderlich, 1982 ..... Ne Dominican amber
1194. *Veterator longipes* Wunderlich, 1988 ..... Ne Dominican amber
1195. *Veterator loricatus* Wunderlich, 1988 ..... Ne Dominican amber
1196. *Veterator porrectus* Wunderlich, 1988 ..... Ne Dominican amber
1197. *Veterator viduus* Wunderlich, 1988 ..... Ne Dominican amber
Veterator sp. 1–2 *in* Wunderlich (1988) ..... Ne Dominican amber

‘CLUBIONOIDEA *incertae sedis*’

Wunderlich (2011*d*) proposed removing almost all the amber fossils from the clubionids *sensu stricto*. We follow this in part for the two genera below, but would prefer a more formal treatment before accepting all these transfers. In general the delimitation of even modern clubionids, and related forms, is problematic.

† ***Concursator*** **Petrunkevitch, 1958** ..... **Palaeogene**

1198. *Concursator nudipes* Petrunkevitch, 1958* ..... Pa Baltic amber

† ***Systariella*** **Wunderlich, 2004*af*** ..... **Palaeogene**

1199. *Systariella magnioculi* Wunderlich, 2004*af** ..... Pa Baltic amber

CLUBIONIDAE Simon, 1895 ..... **Palaeogene – Recent**

Clubionidae gen. et sp. *in* Nishikawa (1974) ..... Qt Mizunami copal

Clubiona **Latreille, 1804a** ..... **Palaeogene – Recent**

1200. *Clubiona arcana* Scudder, 1890*a* ..... Pa Florissant

1201. *Clubiona attenuata* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1202. *Clubiona curvispinosa* Petrunkevitch, 1922 ..... Pa Florissant

1203. *Clubiona florissanti* Petrunkevitch, 1922 ..... Pa Florissant

1204. *Clubiona lanata* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1205. *Clubiona microphthalma* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1206. *Clubiona pubescens* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1207. *Clubiona sericea* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1208. *Clubiona tomentosa* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Desultor*** **Petrunkevitch, 1942** ..... **Palaeogene**

1209. *Desultor depressus* Petrunkevitch, 1942 ..... Pa Baltic amber

Elaver **O. P.-Cambridge, 1898** ..... **Neogene – Recent**

1210. *Elaver nutua* (Wunderlich, 1988) ..... Ne Dominican amber

† ***Eobumbatrix*** **Petrunkevitch, 1922** ..... **Palaeogene**

1211. *Eobumbatrix latebrosa* (Scudder, 1890*a*)* ..... Pa Florissant

† ***Eodoter*** **Petrunkevitch, 1958** ..... **Palaeogene**

1212. *Eodoter eopala* Wunderlich, 2004*af* ..... Pa Baltic amber

1213. *Eodoter lonimammillae* Wunderlich, 2012*c* ..... Pa Baltic amber

1214. *Eodoter magnificus* Petrunkevitch, 1958* ..... Pa Baltic amber

1215. *Eodoter scutatus* Wunderlich, 2011*d* ..... Pa Baltic amber

1216. ?*Eodoter tibialis* Wunderlich, 2011*d* ..... Pa Baltic amber

† ***Eostentatrix*** **Petrunkevitch, 1922** ..... **Palaeogene**

1217. *Eostentatrix cockerelli* Petrunkevitch, 1922 ..... Pa Florissant

1218. *Eostentatrix ostentata* (Scudder, 1890*a*)* ..... Pa Florissant

† ***Eoversatrix*** **Petrunkevitch, 1922** ..... **Palaeogene**

1219. *Eoversatrix eversa* (Scudder, 1890*a*)* ..... Pa Florissant

† ***Machilla*** **Petrunkevitch, 1958** [family uncertain] ..... **Palaeogene**

1220. *Machilla setosa* Petrunkevitch, 1958* ..... Pa Baltic amber

† ***Massula*** **Petrunkevitch, 1942** [family uncertain] ..... **Palaeogene**

1221. *Massula klebsi* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Prosocer*** **Petrunkevitch, 1963** ..... **Neogene**

1222. *Prosocer mollis* Petrunkevitch, 1963* ..... Ne Chiapas amber

Clubionidae *incertae sedis*

† ***Chiapasona* Petrunkevitch, 1963** ..... **Neogene**

1223. *Chiapasona defuncta* Petrunkevitch, 1963* ..... Ne Chiapas amber

ANYPHAENIDAE Bertkau, 1878*a* ..... **Palaeogene – Recent**

= AMAUROBIOIDIDAE Hickman, 1949

***Anyphaena* Sundevall, 1833** ..... **Palaeogene – Recent**

1224. '*Anyphaena*' *fuscata* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

***Anyphaenoides* Berland, 1913** ..... **Neogene – Recent**

1225. *Anyphaenoides bulla* (Wunderlich, 1988) ..... Ne Dominican amber

***Lupettiana* Brescovit, 1997** ..... **Neogene – Recent**

1226. *Lupettiana ligula* (Wunderlich, 1988) ..... Ne Dominican amber

***Wulfila* O. P.-Cambridge, 1895** ..... **Neogene – Recent**

1227. *Wulfila spinipes* Wunderlich, 1988 ..... Ne Dominican amber

GALLIENIELLIDAE Millot, 1947 ..... **Recent**

no fossil record

LIOCRANIDAE Simon, 1897*a* ..... **Palaeogene – Recent**

?Liocranidae *in* Wunderlich (1988) ..... Ne Dominican amber

***Apostenus* Westring, 1851** ..... **Palaeogene – Recent**

1228. *Apostenus arnoldorum* Wunderlich, 2004*ag* ..... Pa Baltic amber

1229. *Apostenus bigibber* Wunderlich, 2004*ag* ..... Pa Baltic / Bitt. amber

1230. *Apostenus spinimanus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

***Donuea* Strand, 1932** ..... **Quaternary – Recent**

1231. *Donuea collustrata* Bosselaers & Dierick, 2010 **[Recent]** ..... Qt – R Madagascar

† ***Palaeospinisoma* Wunderlich, 2004*ag*** ..... **Palaeogene**

1232. *Palaeospinisoma femoralis* Wunderlich, 2004*ag** ..... Pa Baltic amber

TRACHELIDAE Simon,1897 ..... **Neogene – Recent**

***Trachelas* L. Koch, 1872** ..... **Neogene**

1233. *Trachelas poinari* Penney, 2001 ..... Ne Dominican amber

CITHAERONIDAE Simon, 1893 ..... **Recent**

no fossil record

PHRUROLITHIDAE Banks, 1892 ..... **Palaeogene – Recent**

Phrurolithus* C. L. Koch, 1839*b ..... **Palaeogene – Recent**

1234. *Phrurolithus extinctus* Petrunkevitch, 1958 ..... Pa Baltic amber

1235. *Phrurolithus fossilis* Petrunkevitch, 1958 ..... Pa Baltic amber

1236. *Phrurolithus ipseni* Petrunkevitch, 1958 ..... Pa Baltic amber

† **EPHALMATORIDAE Petrunkevitch, 1950** ..... **Palaeogene**

† ***Ephalmator* Petrunkevitch, 1950** ..... **Palaeogene**

1237. *Ephalmator bitterfeldensis* Wunderlich, 2004*ad* ..... Pa Bitterfeld amber

1238. *Ephalmator calidus* Wunderlich, 2004*ad* ..... Pa Baltic amber

1239. *Ephalmator debilis* Wunderlich, 2004*ad* ..... Pa Baltic amber

1240. *Ephalmator distinctus* Wunderlich, 2004*ad* ..... Pa Baltic amber

1241. *Ephalmator ellwangeri* Wunderlich, 2004*ad* ..... Pa Baltic amber

1242. ?*Ephalmator eximius* Petrunkevitch, 1958 ..... Pa Baltic amber

1243. *Ephalmator fossilis* Petrunkevitch, 1950* ..... Pa Baltic amber

1244. *Ephalmator kerneggeri* Wunderlich, 2004*ad* ..... Pa Baltic amber

1245. *Ephalmator petrunkevitchi* Wunderlich, 2004*ad* ..... Pa Baltic amber

1246. *Ephalmator ruthildae* Wunderlich, 2004*ad* ..... Pa Baltic amber

1247. *Ephalmator tredecim* Wunderlich, 2012*c* ..... Pa Baltic amber

1248. *Ephalmator trudis* Wunderlich, 2004*ad* ..... Pa Baltic amber

1249. *Ephalmator turpiculus* Wunderlich, 2004*ad* ..... Pa Baltic amber

Ephalmator sp. *in* Wunderlich (2004*ad*) ..... Pa Baltic amber

AMMOXENIDAE Simon, 1893 ..... **Recent**

no fossil record

LAMPONIDAE Simon, 1893 ..... **Recent**

no fossil record

GNAPHOSIDAE Pocock, 1898 ..... **?Cretaceous – Recent**

= DRASSIDAE Sundevall, 1833 [based on a generic synonym]

† ***Captrix* Petrunkevitch, 1942** ..... **Palaeogene**

1250. *Captrix lineata* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber

***Drassodes* Westring, 1851** ..... **Palaeogene – Recent**

1251. *Drassodes cupreus* (Blackwall, 1834*a*) **[Recent]** ..... Qt England

1252. ?*Drassodes femurus* Lin, Zhang & Wang, 1989 ..... Ne Shanwang

1253. ?*Drassodes sextii* Berland, 1939 ..... Pa Aix-en-Provence

† ***Drassyllinus* Wunderlich, 1988** ..... **Neogene**

1254. *Drassyllinus aliter* Wunderlich, 1988* ..... Ne Dominican amber

† ***Eognaphosops* Wunderlich, 2011*b*** ..... **Palaeogene**

1255. *Eognaphosops cryptoplanoides* Wunderlich 2011*b** ..... Pa Baltic amber

† ***Eomactator* Petrunkevitch, 1958** ..... **Palaeogene**

1256. *Eomactator hamatus* Wunderlich, 2011*b* ..... Pa Baltic amber

1257. *Eomactator hirsutipes* Wunderlich, 2011*b* ..... Pa Baltic amber

1258. *Eomactator mactatus* Petrunkevitch, 1958* ..... Pa Baltic amber

1259. *Eomactator obscurior* Wunderlich, 2011*b* ..... Pa Baltic amber

Gnaphosa* Latreille, 1804*a ..... **?Cretaceous – Recent**

1260. *Gnaphosa affinis* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

i. = *Philodromus dubius* C. L. Koch & Berendt, 1854

1261. *Gnaphosa ambigua* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1262. *Gnaphosa liaoningensis* Chang, 2004 [generic assignment unreliable!] K Jehol biota

***Micaria* Westring, 1851** ..... **Palaeogene – Recent**

1263. *Micaria procera* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1264. *Micaria tenella* Heer, 1865 ..... Ne Öhningen

† ***Palaeodrassus* Petrunkevitch, 1922** ..... **Palaeogene**

1265. *Palaeodrassus cockerelli* Petrunkevitch, 1922 ..... Pa Florissant

1266. *Palaeodrassus florissanti* Petrunkevitch, 1922..... Pa Florissant

1267. *Palaeodrassus hesternus* (Scudder, 1890*a*) ..... Pa Florissant

1268. *Palaeodrassus ingenuus* (Scudder, 1890a)* ..... Pa Florissant

1269. *Palaeodrassus interitus* (Scudder, 1890a) ..... Pa Florissant

***Scopoides* Platnick, 1989** ..... **Palaeogene – Recent**

1270. *Scopoides dominicanus* Wunderlich, 2011*g*..... Ne Dominican amber

***Zelotes* Gistel, 1848** ..... **Palaeogene**

1271. *Zelotes concinna* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1272. *Zelotes mundula* (C. L. Koch & Berendt, 1854) ..... Pa Baltic ambe

i. = *Melanophora nobilis* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1273. *Zelotes regalis* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

† ***Zelotetis* Wunderlich, 2011*b*** ..... **Palaeogene**

1274. *Zelotetis calefacta* Wunderlich, 2011*b*..... Pa Baltic amber

CORINNIDAE Karsch, 1880*a* ..... **Palaeogene – Recent**

= MYRMECIIDAE C. L. Koch, 1851 [name already used for ants]

extinct genera were not considered in the otherwise comprehensive revision of Ramírez (2014), some fossil corinnids may now belong in other families

† ***Ablator* Petrunkevitch, 1942** ..... **Palaeogene**

= † *Abliguritor* Petrunkevitch, 1942

1275. *Ablator biguttatus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1276. *Ablator curvatus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1277. *Ablator deminuens* Wunderlich, 2004*ah* ..... Pa Baltic amber

1278. *Ablator depressus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1279. *Ablator duomammillae* Wunderlich, 2004*ah* ..... Pa Baltic amber

1280. *Ablator felix* (Petrunkevitch, 1958) ..... Pa Baltic amber

1281. *Ablator inevolvens* Wunderlich, 2004*ah* ..... Pa Baltic amber

1282. *Ablator longus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1283. *Ablator nonguttatus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1284. *Ablator parvus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1285. *Ablator plumosus* (Petrunkevitch, 1950) ..... Pa Baltic amber

1286. *Ablator robustus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1287. *Ablator scutatus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1288. *Ablator splendens* Wunderlich, 2004*ah* ..... Pa Baltic amber

1289. *Ablator triguttatus* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic ambe

i. = *Philodromus microcephalus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

ii. = *Philodromus squamiger* C. L. Koch & Berendt, 1854 Pa Baltic amber

iii. = *Abligurator niger* Petrunkevitch, 1942 ..... Pa Baltic amber

† ***Alterphrurolithus* Wunderlich, 2004*ah*** ..... **Palaeogene**

1290. *Alterphrurolithus longipes* Wunderlich, 2004*ah* ..... Pa Baltic amber

Castianeira* Keyserling, 1880*b ..... **Neogene – Recent**

1291. *Castianeira tenebricosa* Wunderlich, 1988 ..... Ne Dominican amber

† ***Chemmisomma* Wunderlich, 1988** ..... **Neogene**

1292. *Chemmisomma dubia* Wunderlich, 1988* ..... Ne Dominican amber

Corinna* C. L. Koch, 1842*a ..... **Neogene – Recent**

1293. *Corinna flagelliformis* Wunderlich, 1988 ..... Ne Dominican amber

† ***Cornucymbium* Wunderlich, 2004ah** ..... **Palaeogene**

1294. *Cornucymbium insolens* Wunderlich, 2004*ah** ..... Pa Baltic amber

† ***Cryptoplanus* Petrunkevitch, 1958** ..... **Palaeogene**

1295. *Cryptoplanus bulbosus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1296. *Cryptoplanus complicatus* Wunderlich, 2004*ah* ..... Pa Baltic amber

1297. *Cryptoplanus incidens* Wunderlich, 2004*ah* ..... Pa Baltic amber

1298. *Cryptoplanus lanatus* (Petrunkevitch, 1958) ..... Pa Baltic amber

1299. *Cryptoplanus paradoxus* Petrunkevitch, 1958* ..... Pa Baltic amber

1300. *Cryptoplanus sericatus* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1301. *Cryptoplanus sinuosus* Wunderlich, 2004*ah* ..... Pa Baltic amber

Cryptoplanus sp. *in* Wunderlich (2004*ah*) ..... Pa Baltic amber

† ***Eomazax* Petrunkevitch, 1958** ..... **Palaeogene**

1302. *Eomazax pulcher* Petrunkevitch, 1958* ..... Pa Baltic amber

Megalostrata* Karsch, 1880*a ..... **Neogene – Recent**

1303. *Megalostrata grandis* Wunderlich, 1988 ..... Ne Dominican amber

† ***Myrmecorinna* Wunderlich, 2004*ah*** ..... **Palaeogene**

1304. *Myrmecorinna gracilis* Wunderlich, 2004*ah** ..... Pa Baltic amber

† ***Palpiraptor* Wunderlich, 2011*f*** ..... **Quaternary**

1305. *Palpiraptor myrmarachnoides* Wunderlich, 2011*f** ..... Qt Madagascar copal

† ***Protoorthobula* Wunderlich, 2004*ah*** ..... **Palaeogene**

1306. *Protoorthobula bifida* Wunderlich, 2004*ah** ..... Pa Baltic amber

1307. *Protoorthobula deelemani* Wunderlich, 2004*ah* ..... Pa Baltic / Bitt. Amber

VIRIDASIIDAE Lehtinen, 1967 ..... **Recent**

No fossil record

SELENOPIDAE Simon, 1897*a* ..... **Palaeogene – Recent**

Selenopidae *incertae sedis in* Selden & Wang (2014) ..... Pa Baltic amber

† ***Garcorops*** **Corronca, 2003** ..... **Quaternary – Recent**

1308. *Garcorops jadis* Bosselaers, 2004 ..... Qt Madagascar copal

i. = ?*Anyphops cortex* Wunderlich, 2004*as* ..... Qt Madagascar copal

Selenops **Latreille, 1819** ..... **Palaeogene – Recent**

1309. *Selenops benoiti* Wunderlich, 2004*as* ..... Qt Madagascar copal

1310. *Selenops beynai* Schawaller, 1984 ..... Ne Dominican amber

1311. *Selenops dominicanus* Wunderlich, 2004*an* ..... Ne Dominican amber

Selenops sp. *in* Wunderlich (1988) ..... Ne Dominican amber

Selenops sp. *in* García-Villafuerte (2006*b*) ..... Ne Chiapas amber

Selenops sp. *in* Penney (2007) ..... Pa Le Quesnoy amber

MITURGIDAE Simon, 1885*a* ..... **Palaeogene – Recent**

= ZORIDAE F.O.P.-Cambridge, 1893

† ***Zorapostenus*** **Wunderlich, 2008*c*** ..... **Palaeogene**

1312. *Zorapostenus raveni* Wunderlich, 2008*c* ..... Pa Baltic amber

EUTICHURIDAE Lehtinen, 1967 ..... **Recent**

= CHEIRACANTHIDAE Wagner, 1887

Strotarchus **Simon, 1888** ..... **Neogene – Recent**

= † *Mimeutychurus* Petrunkevitch, 1963 [tentative synonomy]

1313. *Strotarchus heidti* Wunderlich, 1988 ..... Ne Dominican amber

1314. *Strotarchus paradoxus* (Petrunkevitch, 1963) ..... Ne Chiapas amber

PHILODROMIDAE Thorell, 1870*a* ..... **Cretaceous – Recent**

Philodromidae sp. *in* Wunderlich (1988) ..... Ne Dominican amber

Philodromidae sp. *in* Wunderlich (2004*ae*) ..... Ne Baltic amber

† ***Cretadromus*** **Cheng, Shen & Gao, 2009** ..... **Cretaceous**

1315. *Cretadromus liaoningensis* Cheng, Shen & Gao, 2009 ..... K Liaoning Province

Wunderlich (2012*d*) suggested this could belong in Theridosomatidae

† ***Eothanatus*** **Petrunkevitch, 1950** ..... **Palaeogene – Recent**

1316. *Eothanatus diritatis* Petrunkevitch, 1950* ..... Pa Baltic amber

SALTICIDAE Blackwall, 1841 ..... **Palaeogene – Recent**

= ATTIDAE Sundevall, 1833 [based on a generic synonym]

= LYSSOMANIDAE Peckham & Wheeler, 1889

Salticidae gen. et sp. *in* Schawaller (1982*d*) ..... Ne Willershausen

Salticidae *incertae sedis in* Selden (2014*b*) ..... Pa Isle of Wight

† ***Almolinus*** **Petrunkevitch, 1958** ..... **Palaeogene**

1317. *Almolinus bitterfeldensis* Wunderlich, 2004*aq* ..... Pa Bitterfeld amber

1318. *Almolinus clarus* Petrunkevitch, 1958* ..... Pa Baltic amber

1319. *Almolinus ligula* Wunderlich, 2004*aq* ..... Pa Baltic amber

?*Almolinus* sp. in Wunderlich (2004*aq*) ..... Pa Baltic amber

† ***Attoides*** **Brongniart, 1877** ..... **Palaeogene**

1320. *Attoides eresiformis* Brongniart, 1877 ..... Pa Aix-en-Provence

† ***Calilinus*** **Wunderlich, 2004*aq*** ..... **Palaeogene**

1321. *Calilinus fleissneri* Wunderlich, 2004*aq** ..... Pa Baltic amber

† ***Cenattus*** **Petrunkevitch, 1942** ..... **Palaeogene**

1322. *Cenattus exophthalmicus* Petrunkevitch, 1942* ..... Pa Baltic amber

Corythalia **C. L. Koch, 1851** ..... **Neogene – Recent**

1323. *Corythalia ocululiter* Wunderlich, 1988 ..... Ne Dominican amber

1324. *Corythalia pilosa* Wunderlich, 1982 ..... Ne Dominican amber

1325. *Corythalia scissa* Wunderlich, 1988 ..... Ne Dominican amber

† ***Descangeles*** **Wunderlich, 1988** ..... **Neogene**

1326. *Descangeles pygmaeus* Wunderlich, 1988* ..... Ne Dominican amber

Descangeles sp. 1–2 in Wunderlich (1988) ..... Ne Dominican amber

Descanso **Peckham & Peckham, 1892** ..... **Neogene – Recent**

Descanso sp. *in* Wunderlich (1988) ..... Ne Dominican amber

† ***Distanilinus*** **Wunderlich, 2004*aq*** ..... **Palaeogene**

1327. *Distanilinus filum* Wunderlich, 2004*aq* ..... Pa Baltic amber

1328. *Distanilinus nutus* Wunderlich, 2004*aq** ..... Pa Baltic amber

1329. *Distanilinus paranutus* Wunderlich, 2004*aq* ..... Pa Baltic amber

1330. *Distanilinus pernutus* Wunderlich, 2004*aq* ..... Pa Baltic amber

† ***Eoattopsis*** **Gourret, 1887** ..... **Palaeogene**

1331. *Eoattopsis hirsutus* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Eolinus*** **Petrunkevitch, 1942** ..... Palaeogene

1332. *Eolinus balticus* Żabka, 1988 ..... Pa Baltic amber

1333. *Eolinus fungus* Wunderlich, 2004*aq* ..... Pa Baltic amber

1334. *Eolinus insuriens* Wunderlich, 2004*aq* ..... Pa Baltic amber

1335. *Eolinus prominens* Wunderlich, 2004*aq* ..... Pa Baltic amber

1336. *Eolinus samlandica* Wunderlich, 2004*aq* ..... Pa Baltic amber

1337. *Eolinus succineus* Petrunkevitch, 1942* ..... Pa Baltic amber

1338. *Eolinus theryi* Petrunkevitch, 1942 ..... Pa Baltic amber

1339. *Eolinus theryoides* Wunderlich, 2004*aq* ..... Pa Baltic amber

1340. *Eolinus tystschenkoi* Proszynski & Żabka, 1980 ..... Pa Baltic amber

1341. *Eolinus vates* Wunderlich, 2004*aq* ..... Pa Baltic amber

Eolinus sp. *in* Wunderlich (2004*aq*) ..... Pa Baltic amber

Euophrys **C. L. Koch, 1834** ..... **Palaeogene – Recent**

1342. *Euophrys gibberula* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1343. *Euophrys randeckensis* Schawaller & Ono, 1979 ..... Ne Randecker Maar

† ***Evagoratus*** **Zhang, Sun & Zhang, 1994** ..... **Neogene**

1344. *Evagoratus longicruris* Zhang, Sun & Zhang, 1994 ..... Ne Shanwang

Galianora **Maddison, 2006** ..... **Neogene**

1345. *Galianora marcoi* García-Villafuerte, 2018 ..... Ne Chiapas amber

† ***Gorgopsidis*** **Wunderlich, 2004*aq*** ..... **Palaeogene**

1346. *Gorgopsidis bechlyi* Wunderlich, 2004*aq** ..... Pa Baltic amber

† ***Gorgopsina*** **Petrunkevitch, 1955*a*** ..... **Palaeogene – Neogene**

1347. *Gorgopsina amabilis* Wunderlich, 2004*aq* ..... Pa Baltic amber

1348. *Gorgopsina constricta* Wunderlich, 2004*aq* ..... Pa Baltic amber

1349. *Gorgopsina expandens* Wunderlich, 2004*aq* ..... Pa Baltic amber

1350. *'Gorgopsina' fasciata* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1351. *Gorgopsina flexuosa* Wunderlich, 2004*aq* ..... Pa Baltic amber

1352. *Gorgopsina formosa* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1353. *Gorgopsina fractura* Wunderlich, 2004*ar* ..... Pa Rovno amber

1354. *Gorgopsina frenata* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber

1355. *Gorgopsina inclusa* Wunderlich, 2004aq ..... Pa Baltic amber

1356. *Gorgopsina jucunda* (Petrunkevitch, 1942) ..... Pa Baltic amber

1357. *Gorgopsina marginata* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1358. *Gorgopsina melanocephala* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1359. *Gorgopsina naumanni* Giebel, 1856 ..... Pa Baltic amber

1360. *Gorgopsina paulula* (C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

1361. *Gorgopsina rectangularis* Wunderlich, 2011*h* ..... Pa Baltic amber

1362. *?Gorogopsina scharffi* Wunderlich, 2017*d* ..... Ne Ethiopian amber

1363. *Gorgopsina speciosa* Wunderlich, 2004*aq* ..... Pa Baltic amber

Heliophanus **C. L. Koch, 1833** ..... **Palaeogene – Recent**

1364. *Heliophanus extinctus* Berland, 1939 ..... Pa Aix-en-Provence

Hyllus **C. L. Koch, 1846** ..... **Quaternary – Recent**

= † *Parevophrys* Petrunkevitch, 1942

1365. *Hyllus succini* (Petrunkevitch, 1942) ..... Qt Copal

originally described as Baltic amber

Lyssomanes **Hentz, 1845** ..... **Neogene – Recent**

1366. *Lyssomanes pristinus* Wunderlich, 1986 ..... Ne Dominican amber

i. = *Lyssomanes galianoae* Reiskind, 1989 ..... Ne Dominican amber

1367. *Lyssomanes pulcher* Wunderlich, 1988 ..... Ne Dominican amber

Maevia **C. L. Koch, 1846** ..... **?Neogene – Recent**

1368. *Maevia eureka* Riquelme & Menéndez-Acuña, 2017 ..... Ne Chiapas amber

† ***Microlinus*** **Wunderlich, 2004*aq*** ..... **Palaeogene**

1369. *Microlinus calidus* Wunderlich, 2004*aq* ..... Pa Baltic amber

1370. *Microlinus folium* Wunderlich, 2004*aq** ..... Pa Baltic amber

Myrmarachne **MacLeay, 1839** ..... **Quaternary – Recent**

= † *Entomocephalus* Holl, 1829 [suppressed; see ICZN Opinion 2258]

1371. *Myrmarachne formicoides* (Holl, 1829) ..... ?Qt Copal [?not amber]

Neon **Simon, 1876*a*** ..... **Quaternary – Recent**

1372. *Neon ?reticulatus* (Blackwall, 1853) **[Recent]** ..... Qt England

***Nilakantha* Peckham & Peckham, 1901** ..... **Neogene – Recent**

1373. *Nilakantha beugelorum* (Wolff, 1990) ..... Ne Dominican amber

† ***Paralinus* Petrunkevitch, 1942** ..... **Palaeogene**

1374. *Paralinus crosbyi* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Pensacolatus* Wunderlich, 1988** ..... **Neogene**

1375. *Pensacolatus coxalis* Wunderlich, 1988* ..... Ne Dominican amber

1376. *Pensacolatus spinipes* Wunderlich, 1988 ..... Ne Dominican amber

1377. ?*Pensacolatus tibialis* Wunderlich, 2004*aq* ..... Ne Dominican amber

Pensacolatus sp. *in* Wunderlich (1988) ..... Ne Dominican amber

***Phidippus* C. L. Koch, 1846** ..... **Palaeogene**

1378. *Phidippus impressus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

1379. *Phidippus pusillus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Phlegrata* Wunderlich, 1988** ..... **Neogene**

1380. *Phlegrata pala* Wunderlich, 1988* ..... Ne Dominican amber

† ***Prolinus* Petrunkevitch, 1958** ..... **Palaeogene**

1381. *Prolinus fossilis* Petrunkevitch, 1958* ..... Pa Baltic amber

† ***Salticidites* Straus, 1967** ..... **Neogene**

1382. *Salticidites hercynicus* Straus 1967* ..... Ne Willershausen

***Sarinda* Peckham & Peckham, 1892** ..... **Neogene – Recent**

?*Sarinda* sp. *in* Wunderlich (2004*aq*) ..... Ne Dominican amber

† ***Steneattus* Bronn, 1856** ..... **Palaeogene**

= † *Leda* C. L. Koch & Berendt, 1854 [preoccupied]

1383. *Steneattus promissa* (C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber

Araneomorphae *incertae sedis*

† ***Elvina* Thorell, 1870*b*** ..... **Neogene**

1384. *Elvina antiqua* (von Heyden, 1859) ..... Ne Linz am Rhein

Araneae *incertae sedis*

Araneae *incertae sedis in* Selden *et al*. (2014) ..... P Kurty, Kazakhstan

† ***Amphiclotho* Gourret, 1887** ..... **Palaeogene**

1385. *Amphiclotho breviuscula* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Amphithomisus* Gourret, 1887** ..... **Palaeogene**

1386. *Amphithomisus barbatus* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Atocatle* Feldmann, Vega, Applegate & Bishop, 1998** [really a spider?] ..... **Cretaceous**

1387. *Atocatle ranulfoi* Feldmann, Vega, Applegate & Bishop, 1998* ..... K Puebla, México

† ***Cercidiella* Gourret, 1887** ..... **Palaeogene**

1388. *Cercidiella aquisextana* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Clubionella* Gourret, 1887** ..... **Palaeogene**

1389. *Clubionella antiqua* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Eresoides*** **Gourret, 1887** ..... **Palaeogene**

1390. *Eresoides orbicularis* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Hersilioides*** **Gourret, 1887** ..... **Palaeogene**

1391. *Hersilioides thanatiformis* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Opisthophylax*** **Menge, 1856** ..... **Palaeogene**

1392. *Opisthophylax exarata* Menge, 1856* ..... Pa Baltic amber

† ***Prodysdera*** **Gourret, 1887** ..... **Palaeogene**

1393. *Prodysdera intermedia* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Protochersis*** **Gourret, 1887** ..... **Palaeogene**

1394. *Protochersis spinosus* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Protolachesis*** **Gourret, 1887** ..... **Palaeogene**

1395. *Protolachesis annulata* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Paralycosa*** **Dunlop & Jekel, 2009** ..... **Palaeogene**

= † *Protolycosa* Gourret, 1887 [preoccupied]

1396. *Paralycosa attiformis* (Gourret, 1887)* ..... Pa Aix-en-Provence

† ***Pseudothomisus*** **Gourret, 1887** ..... **Palaeogene**

1397. *Pseudothomisus articulatus* Gourret, 1887* ..... Pa Aix-en-Provence

† ***Schellenbergia*** **Heer, 1865** ..... **Neogene**

1398. *Schellenbergia rotundata* Heer, 1865* ..... Ne Öhningen

† ***Timeropus*** **Thorell, 1891** ..... **Palaeogene**

= † *Lycosoides* Gourret, 1887 [preoccupied]

1399. *Timeropus hersiliformis* (Gourret, 1887)* ..... Pa Aix-en-Provence

NOMINA DUBIA

Amaurobius **C. L. Koch, 1837** [no currently valid fossil species]

1. *Amaurobius faustus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
2. *Amaurobius rimosus* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

Auximus **Simon, 1892** [now *Lathys* Simon, 1884: Dictynidae; no currently valid fossil species]

3. *Auximus fossilis* Petrunkevitch, 1950 ..... Pa Baltic amber
4. *Auximus succini* Petrunkevitch, 1942 ..... Pa Baltic amber

† ***Clythia*** **C. L. Koch & Berendt, 1854 (*nomen dubium*)** ..... **Palaeogene**

5. *Clythia alma* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

† ***Corynitoides*** **Dunlop & Jekel, 2009 (*nomen dubium*)** ..... **Palaeogene**

= † *Corynitis* Menge *in* C. L. Koch & Berendt, 1854 [preoccupied]

6. *Corynitoides spinosa* (Menge *in* C. L. Koch & Berendt, 1854)* ..... Pa Baltic amber
7. *Corynitoides undulata* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

† ***Eocryphoeca*** **Petrunkevitch, 1958** [also contains valid fossil species]

8. *Eocryphoeca distincta* Petrunkevitch, 1950 ..... Pa Baltic amber
9. *Eocryphoeca fossilis* (Petrunkevitch, 1942) ..... Pa Baltic amber

† ***Eometa*** **Petrunkevitch, 1958** [also contains valid fossil species]

10. *Eometa aberrans* Petrunkevitch, 1958 ..... Pa Baltic amber

11. *Eometa robusta* Petrunkevitch, 1958 ..... Pa Baltic amber

***Ero* C L. Koch 1836** [also contains valid fossil species]

12. *Ero setulosa* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Fictotama* Petrunkevitch, 1963 (*nomen dubium*)** ..... **Palaeogene**

13. *Fictotama extincta* Petrunkevitch, 1963* ..... Ne Chiapas amber

† ***Memoratrix* Petrunkevitch, 1942 (*nomen dubium*)** ..... **Palaeogene**

regarded by Wunderlich (2004*p*) as a possible pimoid or linyphiid

14. *Memoratrix rydei* Petrunkevitch, 1942 ..... Pa Baltic amber

† ***Mimetarchaea* Eskov, 1992** ..... **Palaeogene**

15. *Mimetarchaea gintaras* Eskov, 1992* ..... Pa Baltic amber

name based on a subadult male

† ***Miropholcus* Petrunkevitch, 1942 (*nomen dubium*)** ..... **Palaeogene**

= † *Micropholcus* Petrunkevitch, 1942 [*lapsus*]

16. *Miropholcus heteropus* Petrunkevitch, 1942* ..... Pa Baltic amber

† ***Perturbator* Petrunkevitch, 1971 (*nomen dubium*)** ..... **Neogene**

17. *Perturbator corniger* Petrunkevitch, 1971* ..... Ne Chiapas amber

† ***Phalangopus* Menge *in* C. L. Koch & Berendt, 1854 (*nomen dubium*)** ..... **Palaeogene**

18. *Phalangopus subtilis* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

† ***Praeoarces* Wunderlich, 2004*q*** ..... **Palaeogene**

19. *Praeoarces exitus* Wunderlich, 2004*q** ..... Pa Baltic amber

***Segestria* Latreille, 1804** [also contains valid fossil species]

20. *Segestria elongata* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

21. *Segestria nana* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

NOMINA NUDA

***Amaurobius* C. L. Koch, 1837** [no currently valid fossil species]

1. *Amaurobius spinimanus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

probably belongs in *Eomatachia* (cf. Wunderlich 2017*a*), but species unclear

† ***Anatone* Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

2. *Anatone hirsuta* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

3. *Anatone marginata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

4. *Anatone spinipes* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

***Aranea* Clerck, 1757** [now *Araneus* Clerck, 1757; which also contains valid fossil species]

5. *Aranea fossilis* Keferstein, 1834 ..... Pa Aix-en-Provence

***Archaea* C. L. Koch & Berendt, 1854** [also contains valid fossil species]

6. *Archaea incomta* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

7. *Archaea sphinx* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Athera* Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

8. *Athera exilis* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

***Attus* Walckenaer, 1805** [now *Salticus* Latreille, 1804; no currently valid fossil species]

9. *Attus fossilis* Walckenaer, 1837 ..... Pa Baltic amber

***Clubiona* Latreille, 1804** [also contains valid fossil species]

10. *Clubiona eseri* Heer, 1865 ..... Ne Öhningen
11. *Clubiona latifrons* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
12. *Clubiona parvula* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
13. *Clubiona pilosa* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Clythia* C. L. Koch & Berendt, 1854** [also contains a *nomen dubium* fossil species]

14. *Clythia funestra* Koch & Berendt, 1854 ..... Pa Baltic amber
15. *Clythia gracilenta* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
16. *Clythia leptocarena* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Dielacata* Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

17. *Dielacata superba* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

***Drassus* Walckenaer, 1805** [now *Gnaphosa* Latreille, 1804; which also contains valid fossil species]

18. *Drassus oblongus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

***Dysdera* Latreille, 1804** [also contains valid fossil species]

19. *Dysdera hippopodium* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
20. *Dysdera glabrata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
21. *Dysdera scobiculata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
22. *Dysdera tenera* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Eolinus* Petrunkevitch, 1942** [also contains valid fossil species]

23. *Eolinus bitterfeldensis* Wunderlich, 2004*aq* ..... Pa Baltic amber
24. *Eolinus tystschenkoides* Wunderlich, 2004*aq* ..... Pa Baltic amber

***Epeira* Walckenaer, 1805** [now *Araneus* Clerck, 1757; which also contains valid fossil species]

25. *Epeira eocaenica* Giebel, 1856 ..... Pa Baltic amber
26. *Epeira eocena* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Epeiridion* Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

27. *Epeiridion femoratum* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Erithus* Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

28. *Erithus applanatus* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

***Ero* C. L. Koch & Berendt, 1836** [also contains valid fossil species]

29. *Ero coronata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
30. *Ero exculpta* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
31. *Ero sphaerica* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
32. *Ero quadripunctata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Eyukselus* Özdikmen, 2007 (*nomen nudum*)** ..... **Palaeogene**

= † *Propetes* Menge, 1854 [preoccupied]

33. *Eyukselus argutus* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
34. *Eyukselus felinus* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
35. *Eyukselus griseus* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
36. *Eyukselus latifrons* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber
37. *Eyukselus pumilus* (Menge *in* C. L. Koch & Berendt, 1854) ..... Pa Baltic amber

***Gea* C. L. Koch, 1843** [also contains valid fossil species]

38. *Gea pubescens* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Heteromma* Menge, 1856 (*nomen nudum*)** ..... **Palaeogene**

39. *Heteromma intersecta* Menge, 1856* ..... Pa Baltic amber

† ***Idmonia*** **Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

40. *Idmonia virginea* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

Melanophora **C. L. Koch, 1833** [now *Zelotes* Gistel, 1848; which also contains valid fossil species]

41. *Melanophora lepida* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

42. *Melanophora nitida* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

Micaria **Westring, 1851** [also contains valid fossil species]

43. *Micaria ovata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

44. *Micaria squamata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

45. *Micaria tenuis* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

Micryphantes **C. L. Koch, 1833** [also contains valid fossil species]

46. *Micryphantes globulus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

47. *Micryphantes turritus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Mizalia*** **C. L. Koch & Berendt, 1854** [also contains valid fossil species]

48. *Mizalia truncata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Ocia*** **Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

49. *Ocia hirsuta* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

Ocypete **C. L. Koch, 1836** [now *Heteropoda* Latreille, 1804; which also contains valid fossil species]

50. *Ocypete angustifrons* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

51. *Ocypete marginata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Onca*** **Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

52. *Onca lepida* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

53. *Onca pumila* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

Philodromus **Walckenaer, 1826** [also contains valid fossil species]

54. *Philodromus griseus* Menge, 1856 ..... Pa Baltic amber

55. *Philodromus marginatus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

56. *Philodromus reptans* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

57. *Philodromus redogradus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

58. *Philodromus spinipes* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

Pythonissa **C. L. Koch, 1837** [now *Gnaphosa* Latreille, 1804; which also contains valid fossil species]

59. *Pythonissa bipunctata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

60. *Pythonissa discophora* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

61. *Pythonissa glabra* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

62. *Pythonissa villosa* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

Segestria **Latreille, 1804** [also contains valid fossil species]

63. *Segestria exarata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

64. *Segestria sulcata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

65. *Segestria undulata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Siga*** **Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

66. *Siga crinita* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

† ***Spheconia*** **Menge *in* C. L. Koch & Berendt, 1854 (*nomen nudum*)** ..... **Palaeogene**

67. *Spheconia brevipes* Menge *in* C. L. Koch & Berendt, 1854* ..... Pa Baltic amber

† ***Syphax* C. L. Koch & Berendt, 1854** [also contains valid fossil species]

68. *Syphax hirtus* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

***Theridium* Walckenaer, 1805** [now *Theridion* Walckenaer, 1805; which also contains valid fossil species]

69. *Theridium bifurcum* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
70. *Theridium chorius* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
71. *Theridium clavigerum* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
72. *Theridium crassipes* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
73. *Theridium setulosum* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

***Thomisus* Walckenaer, 1805** [also contains valid fossil species]

74. *Thomisus matutinus* Menge, 1856 ..... Pa Baltic amber

† ***Thyelia* C. L. Koch & Berendt, 1854** [also contains valid fossil species]

75. *Thyelia mengei* Giebel, 1856 ..... Pa Baltic amber
76. *Thyelia pectinata* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
77. *Thyelia spinosa* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

† ***Zilla* C. L. Koch & Berendt, 1834** [also contains valid fossil species]

78. *Zilla cornumana* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber
79. *Zilla spinipalpa* Menge *in* C. L. Koch & Berendt, 1854 ..... Pa Baltic amber

MISIDENTIFICATIONS

***Aranea* Clerck, 1757** [now *Araneus* Clerck, 1757; which also contains valid fossil species]

1. *Aranea fusca pilosa* Bloch, 1776 [*nomen dubium*; non Araneae?] ..... Qt Copal

† ***Araneaovoius* Dunlop & Braddy, 2011 [ichnogenus]** ..... **Palaeogene**

2. *Araneaovoius columbiae* (Scudder 1878)* [fossil egg sac] ..... Pa Canada / USA

† ***Archaeometa* Pocock, 1911** ..... **?Devonian**

3. ?*Archaeometa devonica* Størmer, 1976 [unidentifiable] ..... D Alken an der Mosel

† ***Eopholcus* Frič, 1904** ..... **Carboniferous**

4. *Eopholcus pedatus* Frič, 1904* [not identified] ..... C Nýřany

***Mongolarachne* Selden, Shi & Ren, 2013** [contains a valid species] ..... **Jurassic**

5. *Mongolarachne chaoyangensis* Cheng *et al*., 2019 [crustacean] ..... J Liaoning, China

† ***Oichnus* Bromley 1981 [ichnogenus]** ..... **Palaeogene**

6. *Oichnus bavincourti* (Vaillant, 1909) [at one stage placed in *Cteniza*] ..... Pa Northern France

† ***Palpipes* Roth, 1854** ..... **Jurassic**

7. *Palpipes cursor* Roth, 1854 [crustacean] ..... J Solnhofen

† ***Palaeocteniza* Hirst, 1923** ..... **Devonian**

8. *Palaeocteniza crassipes* Hirst, 1923* [juvenile trigonotarbid?] ..... D Rhynie chert

† ***Pleurolycosa* Frič, 1904** ..... **Carboniferous**

9. *Pleurolycosa prolifera* (Frič, 1901)* [unidentifiable] ..... C Nýřany

48,394 Recent species according to the WSC (2020)

HAPTOPODA

1 currently valid species of fossil haptopod

† **HAPTOPODA Pocock, 1911** ..... **Carboniferous**

† **PLESIOSIRONIDAE Pocock, 1911** ..... **Carboniferous**

† ***Plesiosiro* Pocock, 1911** ..... **Carboniferous**

1. *Plesiosiro madeleyi* Pocock, 1911* ..... C Coseley

no Recent species

AMBLYPYGI

11 currently valid species of fossil whip spider

AMBLYPYGI Thorell, 1882 ..... **Carbon. – Recent**

= PHRYNÉIDES Walckenaer, 1837

= PHRYNICHIDA Petrunkevitch, 1945*a*

PALAEOAMBLYPYGI Weygoldt, 1996 (suborder) ..... **Carbon. – Recent**

† **WEYGOLDTINIDAE Dunlop, 2018** ..... **Carboniferous**

† ***Weygoldtina*** **Dunlop, 2018** ..... **Carboniferous**

1. *Weygoldtina anglica* (Pocock, 1911) ..... C Coseley
2. *Weygoldtina scudderi* (Pocock, 1911)* ..... C Mazon Creek

PARACHARONTIDAE Weygoldt, 1996 ..... **Carbon. – Recent**

† ***Paracharonopsis*** **Engel & Grimaldi, 2014** ..... **Palaeogene**

3. *Paracharonopsis cambayensis* Engel & Grimaldi, 2014* ..... Pa Cambay amber

EUAMBLYPYGI Weygoldt, 1996 (suborder) ..... **Carbon – Recent**

FAMILY UNCERTAIN

† ***Sorellophrynus*** **Harvey, 2002** ..... **Carboniferous**

= † *Protophrynus* Petrunkevitch, 1913 (preoccupied)

4. *Sorellophrynus carbonarius* (Petrunkevitch, 1913)* ..... C Mazon Creek

CHARINIDAE Quintero, 1986 ..... **Recent**

no fossil record

NEOAMBLYPYGI Weygoldt, 1996 (infraorder) ..... **Cretaceous – Recent**

CHARONTIDAE Simon, 1892*a* ..... **Recent**

no fossil record

UNIDISTITARSATA Engel & Grimaldi, 2014 ..... **Cretaceous – Recent**

† ***Kronocharon*** **Engel & Grimaldi, 2014** ..... **Cretaceous**

5. *Kronocharon engeli* Wunderlich, 2015*c* ..... K Burmese amber
6. *Kronocharon longicalcaris* Wunderlich, 2015*c* ..... K Burmese amber
7. *Kronocharon prendinii* Engel & Grimaldi, 2014* ..... K Burmese amber

PHRYNOIDEA Blanchard, 1852 ..... **Cretaceous – Recent**

PHRYNICHIDAE Simon, 1892*a* ..... **Recent**

no fossil record

PHRYNIDAE Blanchard, 1852 …… **Cretaceous – Recent**

= † ELECTROPHRYNIDAE Petrunkevitch, 1971

† ***Britopygus*** **Dunlop & Martill, 2002** …… **Cretaceous**

8. *Britopygus weygoldti* Dunlop & Martill, 2002 …… K Crato Formation

Phrynus **Lamarck, 1801** …… **Neogene – Recent**

9. *Phrynus mexicana* Poinar & Brown, 2004 …… Ne Chiapas amber
10. *Phrynus resinae* (Schawaller, 1979*b*) …… Ne Dominican amber

AMBLYPYGI *INCERTAE SEDIS*

† ***Thelyphrynus*** **Petrunkevitch, 1913** …… **Carboniferous**

11. *Thelyphrynus elongatus* Petrunkevitch, 1913 …… C Mazon Creek

NOMINA DUBIA

† ***Graeophonus*** **Scudder, 1890*b*** …… **Carboniferous**

Dunlop (2018) treated the entire genus as a *nomen dubium* as its type species is the fossil *L. carbonaria* (see below), which is not demonstrably a whip spider

1. *Electrophrynus mirus* Petrunkevitch, 1971 …… Ne Chiapas amber
2. *Libellula carbonaria* Scudder, 1876 …… C Cape Breton

based on an abdomen only which cannot be meaningfully ascribed to any particular arthropod group

3. *Phrynus fossilis* Keferstein, 1834 …… Pa Aix-en-Provence

i. = *Phrynus marioni* Gourret, 1887 …… Pa Aix-en-Provence

136 Recent species according to Harvey (2003)

UROPYGI

10 currently valid species of fossil whip scorpion

UROPYGI Thorell, 1882 ..... **Carbon. – Recent**

= THELYPHONIDA Latreille, 1804b

= UROTRICHA C. L. Koch, 1851

= OXOPOEI Thorell, 1888

= HOLOPELTIDIA Börner, 1902

Thelyphonida sp. *in* Selden *et al*. 2014 ..... C Donets Basin

plesion genera

† ***Geralinura* Scudder, 1884** ..... **Carboniferous**

1. *Geralinura britannica* Pocock, 1911 ..... C Coseley
2. *Geralinura carbonaria* Scudder, 1884* ..... C Mazon Creek
   - i. = *Geralinura gigantea* Petrunkevitch, 1913 ..... C Mazon Creek
   - ii. = *Geralinura similis* Petrunkevitch, 1913 ..... C Mazon Creek

† ***Parageralinura* Tetlie & Dunlop, 2008** ..... **Carboniferous**

3. *Parageralinura marsiglioi* Selden, Dunlop & Simonetto, 2016 ..... C Carnic Alps
4. *Parageralinura naufraga* (Brauckmann & Koch, 1983)* ..... C Hagen-Vorhalle
5. *Parageralinura neerlandicus* Laurentiaux-Viera & Laurentiaux, 1961..... C Limburg

† ***Proschizomus* Dunlop & Horrocks, 1996** ..... **Carboniferous**

6. *Proschizomus petrunkevitchi* Dunlop & Horrocks, 1996 ..... C Coseley

† ***Prothelyphonus* Frič, 1904** ..... **Carboniferous**

7. *Prothelyphonus bohemicus* (Kušta, 1884*b*) ..... C Rakovník
   - i. = *Prothelyphonus cordai* Frič, 1904 ..... C Rakovník
   - ii. = *Geralinura crassa* Kušta, 1888 ..... C Rakovník
   - iii. = *Geralinura noctua* Kušta, 1888 ..... C Rakovník
   - iv. = *Geralinura scudderi* Kušta, 1888 ..... C Rakovník

THELYPHONIDAE Lucas 1835 ..... **Cretaceous – Recent**

† ***Burmathelyphonia* Wunderlich, 2015*c*** ..... **Cretaceous**

8. *Burmathelyphonia prima* Wunderlich, 2015*c** ..... K Burmese amber

† ***Mesoproctus* Dunlop, 1988** ..... **Cretaceous**

9. *Mesoproctus rowlandi* Dunlop, 1998 ..... K Crato Formation

Mesoproctus sp. *in* Dunlop & Martill (2002) ..... K Crato Formation

† ***Mesothelyphonus* Cai & Huang, 2017*** ..... **Cretaceous**

10. *Mesothelyphonus parvus* Cai & Huang, 2017* ..... K Burmese amber

MISIDENTIFICATIONS

1. *Thelyphonus hadleyi* Pierce, 1945 [unidentifiable, ?algal] …...……..…...Ne California

111 Recent species according to Clouse *et al*. (2017)

SCHIZOMIDA

7 currently valid species

- the fossil family Calcitronidae cannot be meaningfully compared to the Recent families

SCHIZOMIDA Petrunkevitch, 1945*b* ..... **Cretaceous – Recent**

= TARTARIDES Thorell, 1888 (tribe)

= COLOPYGA Cook, 1899 (order)

= SCHIZOPELTIDA Börner, 1902 (tribe)

† **CALCITRONIDAE Petrunkevitch, 1945*b*** ..... **Palaeogene – Neogene**

† ***Calcitro* Petrunkevitch, 1945*b*** ..... **Palaeogene – Neogene**

1. *Calcitro fisheri* Petrunkevitch, 1945*b** ..... Ne Onyx Marble
2. *Calcitro oplonis* Lin *in* Lin *et al*., 1988 ..... Pa Shandong, China

HUBBARDIIDAE Cook, 1899 ..... **Cretcaeous – Recent**

***Antillostenochrus* Armas & Teruel, 2002** ..... **Cretaceous – Recent**

3. *Antillostenochrus pseudoannulatus* (Krüger & Dunlop, 2010) ..... Ne Dominican Amber

† ***Calcoschizomus* Pierce, 1951** ..... **Neogene**

4. *Calcoschizomus latisternum* Pierce, 1951 ..... Ne Onyx Marble

† ***Mesozomus* Müller, Dunlop, Kotthoff, Hammel & Harms, 2019** ..... **Cretcaeous**

5. *Mesozomus groehni* Müller, Dunlop, Kotthoff, Hammel & Harms, 2019* K Burmese amber

***Rowlandius* Reddell & Cokendolpher, 1995** ..... **Neogene – Recent**

6. *Rowlandius velteni* (Krüger & Dunlop, 2010) ..... Ne Dominican Amber

PROTOSCHIZOMIDAE Rowland, 1975 ..... **Neogene–Recent**

† ***Onychothelyphonus* Pierce, 1950** ..... **Neogene**

7. *Onychothelyphonus bonneri* Pierce, 1950 ..... Ne Onyx Marble

transferred from Hubbardidae

305 Recent species according to Clouse *et al*. (2017)

References

Absolon, K. & Kratochvíl, J. 1932. Zur Kenntnis der höhlenbewohnenden Araneae der illyrischen Karstgebiete. *Mitteilungen über Höhlen- und Karstforschung*, 3: 73–81.

Agassiz, L. 1844. *Monographie des poisons fossils du Vieux Gres Rouge ou Systeme Devonian*. Neufchatel, folio: 171 pp.

Ahrens, J., Harms, D. Dunlop, J. A. & Kotthoff, U. 2019. Pseudoscorpions in Bitterfeld amber – a survey. *Mauritiana (Altenburg)*, 37: 113–147.

Allen, J. G. & Feldman, R. M. 2005. *Panduralimulus babcocki* n. gen. and sp., a new Limulacean horseshoe crab from the Permian of Texas. *Journal of Paleontology*, 79: 594–600.

Ambrose, T. & Romano, M. 1972. New Upper Carboniferous Chelicerata (Arthropoda) from Somerset, England. *Palaeontology*, 15: 569–578.

Ambrus, B. & Hably, L. 1979. *Eriophyes daphnogene* sp. n. a fossil gall from the Upper Oligocene of Hungary. *Annales Historico-Naturales Musei Nationalis Hungarici*, 71: 55–56.

Amerling, C. 1862. Naturökonomie der von ihm beobachteten Milben, insbesondere der Trombidieen. *Sitzungsberichte der Königlich Böhmischen Gesellschaft der Wissenschaften in Prague*, 2: 54–56.

Ammon, L. von 1901. Ueber *Anthracomartus* aus dem Pfälzischen Carbon. *Geognostische Jahreshefte*, 13: 1–6.

Anderson, L. I., Dunlop, J. A. & Trewin, N. H. 2000. A Middle Devonian chasmataspid arthropod from Achanarras Quarry, Caithness, Scotland. *Scottish Journal of Geology*, 36: 151–158.

Andrée, K. 1913. Ueber *Anthracophrynus tuberculatus* nov. gen. nov. spec. aus dem productiven Karbon von Dudweiler im Saar-Revier, nebst einer Liste der bisher im Karbon Deutschland gefunden Arachnoiden-Reste. *Jahres-Bericht und Mitteilungen der Oberrheinischen Geologischen Vereins*, 3: 89–93.

Aoki, J. 1965. Oribatiden (Acarina) Thailands. I. *Nature and Life in Southeast Asia*, 4: 129–193.

Aoki, J. 1966*a*. A remarkable new oribatid mite from South Japan (Cryptostigmata: Tokunocepheidae, fam. nov.). *Acarologia*, 8: 358–364.

Aoki, J. 1966*b*. Epizoic symbiosis: an oribatid mite, *Symbioribates papuensis*, representing a new family, from cryptogamic plants growing on backs of Papuan weevils (Acari: Cryptostigmata). *Pacific Insects*, 8: 281–289.

Aoki, J. 1974. [On the fossil mites in Mizunami amber from Gifu Prefecture, Central Japan.] *Bulletin of the Mizunami Fossil Museum*, 1: 397–399 [in Japanese with English summary].

Aoki, J. 1976. Oribatid mites from the IBP Study Area, Pasoh Forest Reserve, West Malaysia. *Nature and Life in Southeast Asia*, 7: 39–59.

Aoki, J., Takaku, G. & Ito, F. 1994. Aribatidae, a new myrmecophilous oribatid mite family from Java. *International Journal of Acarology*, 20: 3–10.

Arillo, A. & Subías, L.S. 2000. A new fossil oribatid mite, *Arachaeorchestes minguezae* n. gen. n. sp. from Spanish Lower Cretaceous amber. *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 84: 231–236.

Arillo, A. & Subías, L.S. 2002. Second fossil oribatid mite from the Spanish Lower Cretaceous amber. *Eupterotegaeus bitranslamellatus* n. sp. (Acariformes, Oribatida, Cepheidae). *Acarologia*, 42: 403–406.

Arillo, A., Blagoderov, V. & Peñalver, E. 2018. Early Cretaceous parasitism in amber: A new species of *Burmazelmira* fly (Diptera: Archizelmiridae) parasitized by a *Leptus* sp. mite (Acari, Erythraeidae). *Cretaceous Research*, 86: 24–32.

Arillo, A., Subías, L.S. & Sánchez-García, A. 2016. New species of fossil oribatid mites (Acariformes, Oribatida), from the Lower Cretaceous amber of Spain. *Cretaceous Research*, 63: 68–76.

Arillo, A., Subías, L. S. & Shtanchaeva, U. 2008. A new fossil oribatid mite, *Ommatocepheus nortoni* sp. nov. (Acariformes, Oribatida, Cepheidae), from a new outcrop of Lower Cretaceous Álava amber (northern Spain). *Systematic and Applied Acarology*, 13: 252–255.

Arillo, A., Subías, L. S. & Shtanchaeva, U. 2009. A new fossil species of oribatid mite, *Ametroproctus valeriae* sp. nov. (Acariformes, Oribatida, Ametroproctidae), from the Lower Cretaceous amber of San Just, Teruel Province, Spain. *Cretaceous Research*, 30: 322–324.

Arillo, A., Subías, L.S. & Shtanchaeva, U. 2010. A new genus and species of oribatid mite, *Cretaceobodes martinezae* gen. et sp. nov. from the Lower Cretaceous amber of San Just (Teruel Province, Spain) (Acariformes, Oribatida, Otocepheidae). *Paleontological Journal*, 44: 287–290.

Arillo, A., Subías, L.S. & Shtanchaeva, U. 2012. A new species of fossil oribatid mite (Acariformes, Oribatida, Trhypochthoniidae) from the Lower Cretaceous amber of San Just (Teruel Province, Spain). *Systematic & Applied Acarology*, 17: 106–112.

Armas, L. F. de & Teruel, R. 2002. Un género nuevo de Hubbardiidae (Arachnida: Schizomida) de las Antillas Mayores. *Revista Ibérica de Aracnología*, 6: 45–52.

Atyeo, W. T. & Baker, E. W. 1964. Tarsocheylidae, a new family of prostigmatic mites (Acarina). *Bulletin of the University of Nebraska State Museum*, 4: 243–256.

Atyeo, W. T. & Gaud, J. 1979. Ptyssalgidae, a new family of analgoid feather mites (Acarina, Acaridida). *Journal of Medical Entomology*, 16: 306–308.

Atyeo, W. T. & Peterson, P. C. 1972. The feather mite family Alloptidae Gaud, new status, I. The subfamilies Trouessartiinae Gaud and Thysanocercinae, new subfamily (Analgoidea). *Zoologischer Anzeiger*, 188: 56–60.

Atyeo, W. T., Baker, E. W. & Delfinado M. D. 1974. *Gaudiella minuta*, a new genus and species of mite (Acarina: Acaridia) belonging to the new family Gaudiellidae. *Journal of the Washington Academy of Sciences*, 64: 295–298.

Audouin, V. 1826. Explication sommaire des planches d'arachnides de l'Égypte et de la Syrie. *In Description de l'ègypt ou Recueil des Observations et des Receherches qui ont été Faites en Égypte Pendant l'Expédition de l'Armée Française, 1st edition, 1(4)*, 99–186. C. L. F. Panckoucke, Paris.

Augusta, J. & Přibyl, A. 1951. O nalezu zbytku Eurypterida v ostravskem karbonu. *Věstník Královské České Společnosti Nauk. Třída Matematicko-Přirodovědecká*, 1951(10): 1–11.

Ausserer, A. 1867. Die Arachniden Tirols nach ihrer horizontalen und verticalen Verbreitung; 1. *Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien*, 17: 137–170.

Ausserer, A. 1875. Zweiter Beitrag zur Kenntniss der Arachniden-Familie der Territelariae Thorell (Mygalidae Autor). *Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien*, 25: 125–206.

Ayyildiz, N. & Luxton, M. 1989. Epimerellidae (Acari, Oribatida), a new mite family. *Journal of Natural History*, 23: 1381–1386.

Badejo, M. A., Woas, S. & Beck, L. 2002. Description of six species of nothroid mites from Nigeria and Brazil (Acari: Oribatida: Nothroidea). *Genus*, 13: 505–548.

Baily, W. H. 1863. Remarks on some Coal Measures Crustacea belonging to the genus *Belinurus*, König, with description of two new species from Queen's County, Ireland. *Annals and Magazine of Natural History*, 11: 107–114.

Baily, W. H. 1869. On fossils obtained at Kiltorcan Quarry, Co. Kilkenny. *British Association Report*, pp. 73–75.

Baker, E. W. 1949. Pomerantziidae, a new family of prostigmatic mites. *Journal of the Washington Academy of Science*, 39: 269–271.

Baker, E. W. & Pritchard, A. E. 1953. The family categories of tetranychoid mites, with a review of the new families Linotetranidae and Tuckerellidae. *Annals of the Entomological Society of America*, 46: 243–258.

Baker, E. W. & Wharton, G. W. 1952. *An introduction to Acarology*. Macmillan, New York, xiii+465 pp.

Baldwin W. & Sutcliffe, W. H. 1904. *Eoscorpius sparthensis* n. sp. from the Middle Coal Measures of Lancashire. *Quarterly Journal of the Geological Society of London*, 60: 395–398.

Balogh, J. 1958. Oribatides nouvelles de l'Afrique tropicale. *Revue Zoologie Botanique Africaines*, 58: 1–34.

Balogh, J. 1968. New oribatids (Acari) from New Guinea. *Acta Zoologica Academiae Scientiarum Hungaricae*, 14: 259–285.

Balogh, J. 1970. New oribatids (Acari) from New Guinea. II. *Acta Zoologica Academiae Scientiarum Hungaricae*, 16: 291–344.

Balogh, J. 1972. *The oribatid genera of the world*. Akadémiai Kiadó, Budapest, 188 pp.

Balogh, J. 1983. A partial revision of the Oppiidae Grandjean, 1954 (Acari: Oribatei). *Acta Zoologica Academiae Scientiarum Hungaricae*, 29: 1–79.

Balogh, J. & Balogh, P. 1984. A review of the Oribatuloidea Thor, 1929 (Acari: Oribatei). *Acta Zoologica Hungarica*, 30: 257–313.

Balogh, J. & Balogh, P. 1992. *The oribatid mites genera of the world. I.* Hungarian National Museum Press, 263 pp.

Balzan, L. 1888. *Chernetidae Nonnullae Sud-Americanae, III*. Asuncion.

Balzan, L. 1892. Voyage de M. E. Simon au Venezuela (Décembre 1887 – Avril 1888). Arachnides. Chernetes (Pseudoscorpiones). *Annales de la Société Entomologique de France*, 60: 497–552.

Bamber, R. 2007. A holistic re-interpretation of the phylogeny of the Pycnogonida Latreille, 1810 (Arthropoda). *Zootaxa*, 1668: 295–312.

Banks, N. 1892*a*. A new genus of Phalangiidae. *Proceedings of the Entomological Society of Washington*, 2(2): 249–251.

Banks, N. 1893. The Phalanginae of the United States. *The Canadian Entomologist*, 25: 205–211.

Banks, N. 1895. Notes on the Pseudoscorpionida. *Journal of the New York Entomological Society*, 3: 1–13.

Banks, N. 1896. New North American spiders and mites. *Transactions of the American Entomological Society*, 23: 57–77.

Banks, N. 1905. Arachnids from the Cocos Island. *Proceedings of the Entomological Society of Washington*, 7: 20–23.

Barbour, E. H. 1914. Carboniferous eurypterids of Nebraska. *American Journal of Science, 4th Series*, 38: 507–510.

Barrande, J. 1872. Systeme silurien du centre de la Boheme. 1ere partie. Recherches paleontologiques. – Supplement au Vol. 1. Trilobites, crustaces divers et poissons. Prague.

Bartel, C. & Dunlop, J. A. 2019. Two laniatorid harvestmen (Opiliones: Cladonychiidae) from Eocene Baltic amber. *Arachnology Letters*, 58: 9–12.

Bartel, C., Konikiewicz, M., Mąkol, J., Wohltmann, A. & Dunlop, J. A. 2015. Smaridid mites in Baltic and Bitterfeld amber, with notes on the fossil record of terrestrial Parasitengona (Trombidiformes: Prostigmata). *Annales Zoologici*, 65: 641–659.

Beecher, C. E. 1902. Note on a new xiphosuran from the Upper Devonian of Pennsylvania. *American Geologist*, 29, 143–146.

Beecher, C. E. 1904. Note on a new Permian xiphosuran from Kansas. *American Journal of Science, 4th Series*, 17: 23–24.

Beier, M. 1932*a*. Pseudoscorpionidea I. Subord. Chthoniinea et Neobisiinea. *Tierreich*, 57: i–xx, 1–258.

Beier, M. 1932*b*. Pseudoscorpionidea II. Subord. C. Cheliferina. *Tierreich*, 58: i–xxi, 1–294.

Beier, M. 1937. Pseudoscorpione aus dem baltischen Bernstein. *Festschrift zum 60. Geburtstag von Professor Dr. Embrik Strand, Riga*, 2: 302–316.

Beier, M. 1947*a*. Pseudoskorpione im Baltischen Bernstein und die Untersuchung von Bernstein-Einschlüssen. *Mikroscopie, Wien*, 1: 188–199.

Beier, M. 1947*b.* Zur Kenntnis der Pseudoscorpionidenfauna des südlichen Afrika, insbesondere der südwest und südafrikanischen Trockengebiet. *Eos, Madrid*, 23: 285–339.

Beier, M. 1955. Pseudoscorpione im baltischen Bernstein aus dem Geologischen Staatsinstitut in Hamburg. *Mitteilungen aus dem Mineralogisch-Geologischen Staatsinstitut in Hamburg*, 25: 48–54.

Beier, M. 1959. Zur Kenntnis der Pseudoscorpioniden-Fauna des Andengebiets. *Beiträge zur neotropischen Fauna*, 1: 185–228.

Bell, W. A. 1922. A new genus of Characeae and new Merostomata from the Coal Measures of Nova Scotia. *Transactions of the Royal Society of Canada*, 4: 159–167.

Benavides, L. R., Cosgrove, J. G., Harvey, M. S., Giribet, G. 2019. Phylogenomic interrogation resolves the backbone of the Pseudoscorpiones tree of life. *Molecular Phylogenetics and Evolution*, 139: 106509.

Bergström, J., Stürmer, W. & Winter, G. 1980. *Palaeoisopus*, *Palaeopantopus* and *Palaeothea*, pycnogonid arthropods from the Lower Devonian Hunsrück Slate, West Germany. *Paläontologische Zeitschrift*, 54: 7–54.

Berland, L. 1913. Araignées. *In Mission du Service géographique de l'armée pour la mesure d'un arc du méridien équatorial en Amérique du Sud (1899-1906). Paris*, 10: 78–119.

Berland, L. 1939. Description de quelques Arignées fossils. *Revue Française d'Entomologie*, 6: 1–9.

Berlese, A. 1885. Acarorum Systematis. *Bullettino della Società Entomologica Italiana*, 17: 121–135.

Berlese, A. 1888. Acari Austro-Americani quos collegit Aloysius Balzan. Manipulus primus. Species novas circiter quinquaginta complectens. *Bollettino della Società Entomologica Italiana*, 20: 171–222.

Berlese, A. 1896. Acari, Myriapoda et Scorpiones hucusque in Italia reperta. *Acari, Myriapoda et Scorpiones in Italia reperta*, Fasc. 79, 15 pp., 6 pls.

Berlese, A. 1899. Gli acari agrarii. Puntat II. *Rivista di Patologia Vegetale, Padova*, 7: 312–344.

Berlese, A. 1908. Elenco di generi e specie nuove di acari. *Redia*, 5: 1–15.

Berlese, A. 1910. Lista di nuove specie e nuovi generi di Acari. *Redia*, 6: 242–271.

Berlese, A. 1914. Acari nuovi. *Redia*, 10: 1–150.

Berlese, A. 1923. Centuria sesta di Acari nuovi. *Redia*, 15: 237–262.

Bernini, F. 1975. Notulae Oribatologicae XII. Una nuova specie di *Carabodes* affine a *C. minusculus* Berlese 1923 (Acarida, Oribatei). *Redia* 56: 455–471.

Bernini, F., Carnevale, G., Bagnoli, G. & Stouge, S. 2002. An Early Ordovician oribatid mite (Acari: Oribatida) from the Island of Öland, Sweden. pp. 45–47. *In* Bernini *et al*. (eds) *Acarid Phylogeny and Evolution. Adaptations in Mites and Ticks*. Kluwer Academic Publishers, Dordrecht, xvii + 451 pp.

Bertkau, P. 1872. Über die Respirationsorgane der Araneen. *Archiv für Naturgeschichte*, 38: 208–233.

Bertkau, P. 1878*a*. Versuch einer naturlichen Anordnung der Spinnen, nebst Bemerkungen zu einzelnen Gattungen. *Archiv für Naturgeschichte*, 44: 351–410.

Bertkau, P. 1878*b*. Einige Spinnen und ein Myriapode aus der Braunkohle von Rott. *Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande und Westfalens, Bonn*, 35: 346–360.

Bertkau, P. 1882. Ueber das Cribellum und Calamistrum. Ein Beitrag zur Histologie, Biologie und Systematik der Spinnen. *Archiv für Naturgeschichte*, 48: 316–362.

Beyschlag, F. & Fritsch, K. von 1899. Das jüngere Steinkohlengebirge und das Rothliegende in der Provinz Sachsen und den angrenzenden Gebieten. *Abhandlungen der Königlich Preussischen geologischen Landesanstalt*, 10: 1–263.

Bicknell, R. D. C., Žalohar, J., Miklava, P., Celarc, B., Križnar, M. & Hitij, T. 2019. A new limulid genus from the Strelovec Formation (Middle Triassic, Anisian) of northern Slovenia. *Geological Magazine*, 156, 2017–2030.

Blackwall, J. 1833. Characters of some undescribed genera and species of Araneidae. *London philosophical Magazine and Journal of Science*, 3: 104–112, 187–197, 344–352, 436–443.

Blackwall, J. 1834*a*. Characters of some undescribed species of Araneidae. *London philosophical Magazine and Journal of Science*, 5: 50–53.

Blackwall, J. 1834*b*. *Researches in Zoology*. London, pp. 229–433.

Blackwall, J. 1841. The difference in the number of eyes with which spiders are provided proposed as the basis of their distribution into tribes; with descriptions of newly discovered species and the characters of a new family and three new genera of spiders. *Transactions of the Linnean Society, London*, 18: 601–670.

Blackwall, J. 1853. Descriptions of some newly discovered species of Araneida. *Annals and Magazine of Natural History, series 2*, 11: 14–25.

Blackwall, J. 1859. Descriptions of newly discovered spiders captured by James Yate Johnson Esq., in the island of Maderia. *Annals and Magazine of Natural History, series 3*, 4: 255–267.

Blackwall, J. 1862. Descriptions of newly-discovered spiders from the island of Madeira. *Annals and Magazine of Natural History, series 3*, 9: 370–382.

Blackwall, J. 1864. *A History of the Spiders of Great Britain and Ireland. Part II*. The Ray Society, London, 1864 pp. 175–384.

Blackwall, J. 1870. Notes on a collection of spiders made in Sicily in the spring of 1868, by E. Perceval Wright, M.D., with a list of the species, and descriptions of some new species and of a new genus. *Annals and Magazine of Natural History, series 4*, 5: 392–405.

Blanchard, E. 1852. Arachnides. *In L'organisation du règne animal, 2nd Edition, vol. 2.* E. Blanchard, Paris.

Błaszak, J., Cokendolpher, J. C. & Polyak, V. J. 1995. *Paleozercon cavernicolous*, a new genus and new species of fossil mite from a cave in the southwestern U.S.A. (Acari, Gamasida: Zerconidae). *International Journal of Acarology*, 21: 253–259.

Błażejowski, B. Niedźwiedzki, G., Boukhalfa, K. & Soussi, M. 2017. *Limulitella tejraensis*, a new species of limulid (Chelicerata, Xiphosura) from the Middle Triassic of southern Tunisia (Saharan Platform). *Journal of Paleontology*, 91: 960–967.

Błażejowski, B., Gieszcz, P., Brett, C. E. & Binkowski, M. 2015. A moment from before 365 Ma frozen in time and space. *Scientific Reports* 5: 14191.

Bleicher, M. 1897. Sur la découverte d'une nouvelle espèce de limule dans les marnes irisées de Lorraine. *Bulletin de la Societe des Sciences de Nancy*, (2)14: 116–126.

Bloch, M. [E.] 1776. Naturgeschichte des Kopals. *Beschäftigungen der Berlinischen Gesellschaft Naturforschender Freunde*, 2: 91–196.

Bode, A. 1951. Ein Liassischer Skorpionide. *Palaeontologische Zeitschrift*, 24: 58–65.

Bolland, H. R. & Magowski, W. Ł. 1990. *Neophyllobius succineus* n. sp. from Baltic amber (Acari: Raphignathoidea: Camerobiidae). *Entomologische Berichten*, 50: 17–21.

Bosselaers, J. 2004. A new *Garacops* species from Madagascar copal (Araneae: Selenopidae). *Zootaxa*, 445: 1–7.

Bosselaers, J., Dierick, M., Cnudde, V., Masschaele, B., Van Hoorebeke, L. & Jacobs, P. 2010. High resolution X-ray computed tomography of an extant new *Donuea* (Araneae: Liocranidae) species in Madagascan copal. *Zootaxa*, 2427: 25–35.

Bottali, P. 1975. Note su due rari esemplari di Araneidi (Aracnidi) rinvenuti nei depositi diatomitici (facies lacustre) di Riano Flaminio (Roma). *Fragmenta entomologica*, 11: 169–174.

Braddy, S. J., Aldridge, R. J. & Theron, J. N. 1995. A new eurypterid from the Late Ordovician Table Mountain Group, South Africa. *Palaeontology*, 38: 563–581.

Braddy, S. J., Selden, P. A. & Doan Nhat T. 2002. A new carcinosomatid eurypterid from the Upper Silurian of Northern Vietnam. *Palaeontology*, 45: 897–915.

Bradley, W. H. 1931. Origin and microfossils of the oil shale of the Green River Formation. *United States Geological Survey, Professional Paper*, 168: 1–58.

Brauckmann, C. 1982. Der Schwertschwanz *Euproops* (Xiphosuraida, Limulina, Euproopacea) aus dem Ober-Karbon des Piesbergs bei Osnabrück. *Osnabücker naturwissenschaftliche Mitteilungen*, 9: 17–26.

Brauckmann, C. 1984. Eine neue Arachniden-Art aus dem Westfalium des Saargebietes (West-Deutschland). *Dortmunder Beiträge zur Landeskunde, naturwissenschaftliche Mitteilungen*, 18: 95–103.

Brauckmann, C. 1987. Neue Arachniden (Ricinuleida, Trigonotarbida) aus dem Namurium B von Hagen-Vorhalle (Ober-Karbon; West-Deutschland). *Dortmunder Beiträge der Landeskunde, naturwissenschaftliche Mitteilungen*, 21: 97–109.

Brauckmann, C. & Koch, L. 1983. *Prothelyphonus naufragus* n. sp., ein neuer Geisselskorpion [Arachnida: Thelyphonida: Thelyphonidae] aus dem Namurium (unteres Oberkarbon) von West-Deutschland. *Entomologica Germania*, 9: 63–74.

Brauckmann, C., Koch, L. & Kemper, M. 1985. Spinnentiere (Arachnida) und Insekten aus den Vorhalle-Schichten (Namurian B; Ober-Karbon) von Hagen-Vorhalle (West-Deutschland). *Geologie und Paläontologie in Westfalen*, 3: 1–131.

Brauer, F., Redtenbacher, J. & Ganglbauer, L. 1889. Fossile Insekten aus der Juraformation Ost-Siberiens. *Mémoires de l'Académie Impériale des Sciences de St.-Petersbourg, VII serie*, 36(15): 1–22.

Braun, C. F. W. 1860. Die Thiere in den Pflanzenschifern der Gegend von Bayreuth. Programm zum Jahresbericht der Königl. Kreis-Landwirtschafts- und Gewerbschule zu Bayreuth für das Schuljahr 1859/60. *Jahresbericht von der Königl. Kreis-Landwirtschafts- und Gewerbschule zu Bayreuth für das Schuljahr 1859/60*: 11 pp.

Brescovit, A. D. 1997. Revisão de Anyphaeninae Bertkau a nível de gêneros na região neotropical (Araneae, Anyphaenidae). *Revista Brasileira de Zoologia*, 13: 1–187.

Brescovit, A. D., Sánchez-Ruiz A. & Alayón, G. 2016. The Filistatidae in the Caribbean region, with a description of the new genus *Antilloides*, revision of the genus *Filistatoides* F. O. P.-Cambridge and notes on *Kukulcania* Lehtinen (Arachnida, Araneae). *Zootaxa*, 4136: 401–432.

Briggs, D. E. G. & Collins, D. 1988. A Middle Cambrian chelicerate from Mount Stephen, British Columbia. *Palaeontology*, 31: 779–798.

Briggs, D. E. G., Siveter, D. J., Siveter, D. J., Sutton, M. D., Garwood, R. J. & Legg, D. 2012. Silurian horseshoe crab illuminates the evolution of arthropod limbs. *Proceedings of the National Academy of Sciences of the United States of America*, 109: 15702–15703.

Briggs, T. A. 1971. Relict harvestmen from the Pacific northwest (Opiliones). *Pan-Pacific Entomologist*, 74: 165–178.

Bristowe, W. S. 1938. The classification of spiders. *Proceedings of the Zoological Society of London*, 108: 285–322.

Bristowe, W. S. 1939. *The comity of spiders. Volume 1.* London, 228 pp.

Brongniart, C. 1877. Note sur une Aranéide fossile des terrains tertiaires. *Annales de la Société Entomologique de France*, (5) 7: 221–224.

Bruce, W. A. & Johnston, D. E. 1976. *Gaudoglyphus* n. gen., based on *Analges minor* Nörner (Acari: Gaudoglyphidae n. fam.). *International Journal of Acarology*, 2: 29–33.

Broili, F. 1928. Crustaceenfunde aus dem rheinischen Unterdevon. I. Über Extremitätenreste. *Sitzungsberichte der Bayerischen Akademie der Wissenschaften, Mathematisch-naturwissenschaftliche Abteilung*, 1928: 197–201.

Broili, F. 1930. Über ein neues Exemplar von *Palaeopantopus*. *Sitzungsberichte der Bayerischen Akademie der Wissenschaften, Mathematisch-naturwissenschaftliche Abteilung*, 1930: 209–214.

Bromley, R.G. 1981. Concepts in ichnotaxonomy illustrated by small round holes in shells. *Acta Geològica Hispànica*, 16: 55–64.

Bronn, H. G. 1856. *Lethaea Geognostica oder Abbildung und Beschreibung für die Gebirgs-Formationen bezeichnendsten Versteinerungen. Dritter Band*. Schweizerbart'sche Verlagshandlung und Druckerei 1853–1856, pp. 622–639.

Buckland, W. 1837. *The Bridgewater treatises on the power, wisdom and goodness of God as manifested in the creation. Treatise IV. Geology and mineralogy with reference to natural theology. 2nd Edition.* William Pickering, London.

Bulanova-Zachvatkina, E. M. 1974. [New genera of oribatid mites from the Upper Cretaceous of Tajmyr.] *Paleontological Journal*, 1974: 141–144. [In Russian]

Burmeister, H. 1843. *Die Organisation der Trilobiten, aus ihren lebenden Verwandten entwickelt; nebst systematischen Uebersicht aller zeither beschrieben Arten*. G. Reimer, Berlin, 148 pp.

Cai, C.-y. & Huang, D.-y. 2017. A new genus of whip-scorpions in Upper Cretaceous Burmese amber:Earliest fossil record of the extant subfamily Thelyphoninae (Arachnida: Thelyphonida: Thelyphonidae). *Cretaceous Research*, 69, 100–105.

Cambridge, F. O. P.- 1893. Handbook to the study of British spiders (Drassidae and Agalenidae). *British Nature Supplement*, 3: 117–170.

Cambridge, F. O. P.- 1899. Arachnida. Araneida. Vol. 2. *Biologia Centrali-Americana*: pp. 41–88.

Cambridge, O. P.- 1870. Descriptions and sketches of two new species of Araneida, with characters of a new genus. *Journal of the Linnean Society of London*, 10: 398–405.

Cambridge, O. P.- 1871. Arachnida (1870). *The Zoological Record*, 7: 207–224.

Cambridge, O. P.- 1873. On some new genera and species of Araneida. *Proceedings of the Zoological Society of London*, 1873: 112–129.

Cambridge, O. P.- 1874. On some new genera and species of Araneida. *Annals and Magazine of Natural Hisrory, series 4*, 14: 169–183.

Cambridge, O. P.- 1876. On a new order and some new genera of Arachnida from Kerguelen's Land. *Proceedings of the Zoological Society of London*, 1876: 258–265.

Cambridge, O. P.- 1877. On some new species of Araneida, with characters of two new genera and remarks on the families Podophthalmides and Dinopides. *Proceedings of the Zoological Society of London*, 1877: 557–578.

Cambridge, O. P.- 1879*a*. On some new and rare spiders from New Zealand, with characters of four new genera. *Proceedings of the Zoological Society of London*, 1879: 681–703.

Cambridge, O. P.- 1879*b*. On some new and rare British spiders, with characters of a new genus. *Annals and Magazine of Natural History*, 4: 190–215.

Cambridge, O. P.- 1881. On some new genera and species of Araneidea. *Proceedings of the Zoological Society of London*, 1881: 765–775.

Cambridge, O. P.- 1882*a*. On new genera and species of Araneidea. *Proceedings of the Zoological Society of London*, 1882: 423–442.

Cambridge, O. P.- 1882*b*. Arachnida (1881). *The Zoological Record*, 18: 1–32.

Cambridge, O. P.- 1894. Arachnida. Araneida. Vol. 1. *Biologia Centrali-Americana*: pp. 121–144.

Cambridge, O. P.- 1895. Arachnida. Araneida. Vol. 1. *Biologia Centrali-Americana*: pp. 145–160.

Cambridge, O. P.- 1898. Arachnida. Araneida. Vol. 1. *Biologia Centrali-Americana*: pp. 233–288.

Cambridge, O. P.- 1902. On new and rare British Arachnida. *Proceedings of the Dorset Natural History and Antiquarian Field Club*, 23: 16–40.

Camin, J. H. 1955. Uropodellidae, a new family of mesostigmatid mites based on *Uropodella laciniata* Berlese, 1888 (Acarina, Liroaspina). *Bulletin of the Chicago Academy of Sciences*, 10, 65–81.

Camin, J. H. & Gorirossi, F. E. 1955. A revision of the suborder Mesostigmata (Acarina), based on new interpretations of comparative morphological data. *Chicago Academy of Sciences Special Publication*, 11: 1–70.

Camin J. H., Moss W. W. & Oliver J. H. 1967. Cloacaridae, a new family of cheyletoid mites from the cloaca of aquatic turtles. *Journal of Medical Entomology*, 4: 261–272.

Campos, D. R. B. 1986. Premeiro registro fóssil de Scorpionoidea na Chapada do Araripe (Cretáceo Inferior), Brasil. *Anais do Academia Brasileira dos Ciências*, 58: 135–137.

Canestrini, G. & Fanzago, F. 1877. Intorno agli Acari italiani. - Atti del R. Istituto Veneto Scienze, Lettere ed Arti, Ser. 5 4: 69–208.

Canestrini, G. & Pavesi, P. 1870. Catalogo sistematico degli Araneida italiani. *Archivo per la zoologia, l'anatomia e la fisiologia*, (2)2: 1–44.

Caporiacco, L. di 1949. Aracnidi della colonia de Kenya raccolti da Toschi e Meneghetti negli anni 1944–1946. *Commentationes Pontificiae Academiae Scientiarum*, 13: 309–492.

Carvalho, M. P. G. de & Lourenço, W. R. 2001. A new family of fossil scorpions from the Early Cretaceous of Brazil. *Comptes Rendus de l'Académie de Sciences de Paris, Earth and Planetary Sciences*, 332: 711–716.

Caster, K. E. & Brooks, H. K. 1956. New fossils from the Canadian–Chazan (Ordovician) hiatus in Tennessee. *Bulletins of American Palaeontology*, 36: 157–199.

Caster, K. E. & Kjellesvig-Waering, E. N. 1953. *Melbournopterus*, a new Silurian eurypterid from Australia. *Journal of Paleontology*, 27: 153–156.

Caster, K. E. & Kjellesvig-Waering, E. N. 1955. *Marsupipterus*, an unusual eurypterid from the Downtonian of England. *Journal of Paleontology*, 29: 1040–1041.

Caster, K. E. & Kjellesvig-Waering, E. N. 1956. Some notes on the genus *Dolichopterus* Hall. *Journal of Paleontology*, 30: 19–28.

Caster K. E. & Kjellesvig-Waering, E. N. 1964. Upper Ordovician eurypterids of Ohio. *Palaeontographica Americana*, 4 (32): 297–358.

Chamberlin, J. C. 1923*a*. The genus *Pseudogarypus* Ellingsen (Pseudoscorpionida – Feallidae). *Entomological News*, 34: 146–149, 161–166.

Chamberlin, J. C. 1923*b*. New and little known pseudoscorpions, principally from the islands and the adjacent shores of the Gulf of California. *Proceedings of the California Academy of Science*, (4)12: 353–387.

Chamberlin, J. C. 1929. A synoptic classification of the false scorpions or chela-spinners, with a report on a cosmopolitan collection of the same. Part I. The Heterosphyronida (Chthoniidae) (Arachnida-Chelonethida). *Annals and Magazine of Natural History, series 10*, 4: 50–80.

Chamberlin, J. C. 1930. A synoptic classification of the false scorpions or chela-spinners, with a report on a cosmopolitan collection of the same. Part II. The Diplosphyronida (Arachnida-Chelonethida). *Annals and Magazine of Natural History, series 10*, 5: 1–48, 585–620.

Chamberlin, J. C. 1931*a*. The arachnid order Chelonethida. *Stanford University Publications, Biological Sciences*, 7: 1–284.

Chamberlin, J. C. 1931*b*. A synoptic revision of the generic classification of the chelonethid family Cheliferidae Simon (Arachnida). *Canadian Entomologist*, 64: 289–294.

Chamberlin, J. C. 1947. The Vachoniidae – a new family of false scorpions represented by two new species from caves in Yucatan (Arachnida, Chelonethida, Neobisioidea). *Bulletin of the University of Utah, Biological Series*, 10(4): 1–15.

Chamberlin, R. V. 1917. New spiders of the family Avicylariidae. *Bulletin of the Museum of Comparative Zoology*, 61: 25–75.

Chamberlin, R. V. 1922. Two new American arachnids of the order Pedipalpida. *Proceedings of the Biological Society of Washington*, 235: 11–12.

Chamberlin, R. V. & Ivie, W. 1943. New genera and species of North American linyphiid spiders. *Bulletin of the University of Utah*, 33(10): 1–39.

Chamberlin, R. V. & Mulaik, S. 1942. On a new family in the Notostigmata. *Proceedings of the Biological Society of Washington*, 55: 125–132.

Chang, A.-c. 1957. On the discovery of the Wenlockian *Eurypterus*-fauna from south China. *Acta Palaeontologica Sinica*, 5: 446–450.

Chang, J.-p. 2004. Some new species of spider and Sacculinidae fossils in Jehol biota. *Global Geology*, 23: 313–320.

Chapman, F. 1932. Two new Australian fossil king-crabs. *Proceedings of the Royal Society of Victoria, New Series*, 44: 100–102.

Charbonnier, S., Vannier, J. & Riou, B. 2007. New sea spiders from the Jurassic La Voulte-sur-Rhône Lagerstätte. *Proceedings of the Royal Society B*, 274: 2555–2561.

Cheng, X.-d., Meng, Q.-j., Wang, X.-r. & Gao, C.-l. 2008. [New discovery of Nephilidae in Jehol biota (Araneae, Nephilidae).] *Acta zootaxonomica Sinica*, 33: 330–334. [in Chinese with English summary]

Cheng, X.-d., Shen, C.-z. & Gao, C.-l. 2009. [A new fossil spider of the Philodromidae from the Yixian Formation of western Liaoning Province, China (Arachnida, Araneae).] *Acta Arachnologica Sinica*, 18: 23–27. [in Chinese with English summary]

Cheng, X.-d, Liu S.-h., Huang, W.-j., Liu, L., Li, H.-m. & Li, Y.-x. 2019. A new species of Mongolarachnidae from the Yixian Formaton of Western Liaoning China. *Acta Geologica Sinica*, 93: 227–228.

Chernyshev, B. I. 1928. Nouvelles donnees sur les Xiphosura du basin Donetz. *Bulletin du Comité Géologique*, 47: 519–531.

Chernyshev, B. I. 1933. [Arthropoda from the Urals and other regions of the USSR.] *Materials of the Central Scientific and Prospecting Institute Paleontology and Stratigraphy, Magazine*, 1: 15–25. [in Russian with English summary]

Chernyshev, B. I. 1948. New representative of Merostomata from the Lower Carboniferous. *State of Kiev, Geological Collections*, 2: 119–130.

Chitimia-Dobler, L., Pfeffer, T. & Dunlop, J. A. 2018. *Haemaphysalis cretacea* a nymph of a new species of hard tick in Burmese amber. *Parasitology*, 145: 1440–1451.

Chitimia-Dobler, L., de Araujo, B. C., Ruthensteiner, B., Pfeffer, T. & Dunlop, J. A. 2017. *Amblyomma birmitum* a new species of hard tick in Burmese amber. *Parasitology*, 144: 1411–1418.

Chlupáč, I. 1963. Report on the merostomes from the Ordovician of Central Bohemia. *Věstnik Ústředni Ústav geologických*, 38: 399–403.

Chlupáč, I. 1994. Pterygotid eurypterids (Arthropoda, Chelicerata) in the Silurian and Devonian of Bohemia. *Journal of the Czech Geological Society*, 39: 147–162.

Chlupáč, I. 1995. Lower Cambrian anthropods from the Paseky Shale (Barrandian area, Czech Republic). *Journal of the Czech Geological Society*, 40: 9–36.

Chlupáč, I. & Havlíček, V. 1965. *Kodymirus* n. g., a new aglaspid merostome of the Cambrian of Bohemia. *Sborník Geologickych Věd. Paleontologie*, 6: 7–20.

Ciurca Jr., S. J. & Tetlie, O. E. 2007. Pterygotids (Chelicerata; Eurypterida) from the Silurian Vernon Formation of New York. *Journal of Paleontology*, 81: 725–736.

Clarke, J. M. 1902. Notes on Paleozoic crustaceans. *New York State Museum Report*, 54: 83–110.

Clarke, J. M. 1907. The *Eurypterus* shales of the Shawangunk Mountains in Eastern New York. *New York State Museum Bulletin* 107: p. 295.

Clarke, J. N. & Ruedemann, R. 1912. The Eurypterida of New York. *New York State Museum, Memoir*, 14, 1–439.

Clarke, J. M. 1919. *Bunaia woodwardi*, a new merostome from the Silurian waterlimes of New York. *Geological Magazine, Decade 6*, 6: 531–532.

Claypole, E. W. 1890*a*. Palaeontological notes from Indianapolis (A. A. A. S.) *Pterichthys – Castoroides – Eurysoma* g. n. *American Geologist*, 6: 255–260.

Claypole, E. W. 1890*b*. *Carcinosoma newlini*. *American Geologist*, 6: 400.

Clerck, C. 1757. *Araneae suecici, descriptionibus et figuris oeneis illustrati, ad genera subalterna redacti speciebus ultra LX determinati. Svenska Spindlar, uti sina hufvud-slagter indelte samt*… Stockholm, 154 pp.

Cockerell, T. D. A. 1905. Two Carboniferous genera of xiphosurans. *American Geologist*, 36: 330.

Cockerell, T. D. A. 1907. Some fossil arthropods from Florissant, Colorado. *Bulletin of the American Museum of Natural History*, 23: 605–616.

Cockerell, T. D. A. 1916. The uropods of *Acanthotelson stimpsoni*. *Journal of the Washington Academy of Science*, 6: 234–236.

Cockerell, T. D. A. 1917*a*. Arthropods in Burmese amber. *American Journal of Science, series 4*, 44: 360–368.

Cockerell, T. D. A. 1917*b*. Arthropods in Burmese amber. *Psyche*, 24: 40–45.

Cockerell, T. D. A. 1920. Fossil arthropods in the British Museum. I. *Annals and Magazine of Natural History, series 9*, 5: 273–279.

Cockerell, T. D. A. 1925. Fossil insects in the United States National Museum. *Proceedings of the U. S. National Museum*, 64: 1–15.

Coddington, J. 1986. The genera of the spider family Theridiosomatidae. *Smithsonian Contributions to Zoology*, 422: 1–96.

Coineau, Y. 1974. Un type nouveau d'Acariens Prostigmates libres: les Saxidromoidea, nouvelle super-famille. *Comptes rendus de l'Académie des Sciences, Paris série D*, 278: 1059–1062.

Coineau, Y. & Magowski, W. Ł. 1994. Caeculidae in amber. *Acarologia*, 35: 243–246.

Coineau, Y. & Poinar Jr., G. O. 2001. Un Caeculidae de l'ambre de la République Dominicaine. *Acarologia*, 41: 141–144.

Coineau, Y & Theron, P. 1983. Les Micropsammidae, n. fam. d'Acariens Endeostigmata des sables fin. *Acarologia*, 24: 275–280.

Cokendolpher, J. C. 1987. A new species of fossil *Pellobunus* from Dominican Republic amber (Arachnida: Opiliones: Phalangodidae). *Caribbean Journal of Science*, 22: 205–211.

Cokendolpher, J. C. & Poinar Jr., G. O. 1992. Tertiary harvestmen from Dominican Republic amber (Arachnida: Opiliones: Phalangodidae). *Bulletin of the British arachnological Society*, 9: 53–56.

Cokendolpher, J. C. & Poinar Jr., G. O. 1998. A new fossil harvestman from Dominican Republic amber (Opiliones, Samoidae, *Hummelinckiolus*). *Journal of Arachnology*, 26: 9–13.

Comstock, J. H. 1940. *The spider book, revised and edited by Willis J. Gertsch.* Ithaca, New York, 729 pp.

Condé, B. 1996. Les Palpigrades, 1885–1995: acquisitions et lacunes. *Revue suisse de Zoologie*, hors série 1: 87–106.

Cook, D. R. 1963. Omartacaridae, a new family of water mites from the ground waters of North America. *Entomological News*, 74: 37–43.

Cook, D.R. 1967. Water mites from India. *Memoirs of the American Entomological Institute*, 9: 1–411.

Cooke, J. A. L. 1965. Spider genus *Dysdera* (Araneae, Dysderidae). *Nature*, 205: 1027–1028.

Corda, A. J. C. 1835. Ueber den in der Steinkohlenformation bei Cholme gefundenen fossilen Scorpion. *Verhandlungen der Gesellschaft des vaterländischen Museums in Böhmen, Prag*: 36.

Corda, A. J. C. 1839. Ueber eine fossile Gattung der Afterscorpione. *Verhandlungen der Gesellschaft des vaterländischen Museums in Böhmen, Prag*: 14–18.

Corronca, J. A. 2003. New genus and species of Selenopidae (Arachnida, Araneae) from Madagascar and neighbouring islands. *African Zoology*, 38: 387–392.

Crônier, C. & Courville, P. 2005. New xiphosuran merostomata from the Upper Carboniferous of the Graissessac Basin (Massif Central, France). *Comptes Rendus Palevol*, 4: 123–133.

Crosby, C. R. & Bishop, S. C. 1925. A new genus and two new species of spiders collected by *Bufo quercicus* (Holbrook). *Florida Entomologist* 9: 33–36.

Cross, E. A. 1965. The generic relationships of the family Pyemotidae (Acarina: Trombidiformes). *Kansas University Science Bulletin*, 45: 29–275.

Cunliffe, F. 1957. Notes on the Anystidae with a description of a new genus and species *Adamystis donnae*, and a new subfamily Adamystinae (Acarina). *Proceedings of the Entomological Society of Washington*, 59: 172–175.

Cunliffe, F. 1958. *Pyroglyphus morlani*, a new genus and species of mite forming a new family, Pyroglyphidae, in the Acaridiae. *Proceedings of the Entomological Society of Washington*, 60: 85–86.

Currie, L. D. 1927. On *Cyamocephalus*, a new synziphosuran from the Upper Silurian of Lesmahagow, Lanarkshire. *Geological Magazine*, 64: 153–157.

Cutler, B. 1970. A fossil crab spider from West-ventral Wyoming (Araneae: Thomisidae). *Entomological News*, 81: 38–40.

Daber, R. 1990. Arachnidenrest aus dem Westfal D von Zwickau-Oelsnitz. *Zeitschrift für geologische Wissenschaft, Berlin*, 18: 679–682.

Dabert, J. 1994. Kiwilichidae fam. nov. eine neue Federfamilie (Astigmata, Pterolichoidea). *Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg*, 11: 101–110.

Daday, E. 1889. A Magyar nemzeti Muzeum àlskorpiónak áttekintése. *Természetrajzi Füzetek*, 11: 111–136, 165–192.

Dahl, F. 1908. Die Lycosiden oder Wolfsspinnen Deutschlands und ihre Stellung im Haushalt der Natur. Nach statistichen Untersuchungen dargestellt. *Nova Acta Academiae Caesareae Leopoldino-Carolinae*, 88: 175–678.

Dahl, F. 1912. Arachnoidea. *In* Korschelt, E. *et al*. (eds). *Handwörterbuch der Naturwissenschaften*, 1: 485–514.

Dahl, F. 1913. *Vergleichende Physiologie und Morphologie der Spinnentiere unter besonderer Berücksichtigung der Lebensweise. 1. Die Beziehungen des Körperbaues und der Farben zur Umgebung*. Jena, 1913: 113 pp.

Dalgleish, R. C., Palma, R. L., Price R. D. and Smith, V. S. 2006. Fossil lice (Insecta: Phthiraptera) reconsidered. *Systematic Entomology*, 31: 648–651.

Dalla Vecchia, F. M. & Selden, P. A. 2013. A Triassic spider from Italy. *Acta Palaeontologica Polonica*, 58: 325–330.

Dalman, J. W. 1826. Om Insekter inneslutne I Copal, jemte beskrifning på några deribland förekommande nya slägten och arter. *Kungliga Svenska Vetenskapsakademiens Handlingar*, 46: 375–410.

Dalmas, R. de 1916. Révision du genre *Orchestina* E.S., suivie de la description de nouvelles espèces du genre *Oonops* et d'une étude sur les Dictynidae su genre *Scotolathys*. *Annales de la Société Entomologique de France*, 85: 203–258.

Dalmas, R. de 1917. Araignées de Nouvelle Zélande. *Annales de la Société Entomologique de France*, 86: 317–430.

Dammann, M. 2017. *Permomatveevia perneri* nov. gen. n. sp., an Early Permian scorpion from Russian Angara-Land. pp. 102–104. *In* Wachtler M. & Perner, T. (eds) *Early Permian Origin and Evolution of Angiosperms – The Flowering of Angara-Land.* Dolomythos Museum, Innichen, South Tyrol, Italy and Oregon Institute of Geological Research, Portland.

Dana, J. D. 1853. Crustacea, pt. II, Arachnopoda or Pycnogonida. *In* United States Exploring Expedition during the years 1838, 1839, 1840, 1841, 1842. Under the command of Chales Wilkes, U.S.N.C. Sherman, Philadelphia, 1382–1391.

Dashdamirov, S. 2008. A new species of false scorpion from Baltic amber with a redescription of *Electrochelifer balticus* Beier, 1955 and remarks on some fossil Cheliferidae (Arachnida: Chelonethida). *Acta Biologica Benrodis*, 14: 1–13.

Davies, V. T. 1978. A new family of spiders (Araneae: Teemanaaridae). *Symposium of the Zoological Society of London*, 42: 293–302.

Davies, V. T. 1980. *Malkara loricata*, a new spider (Araneidae: Malkarinae) from Australia. *Verhandlungen des 8. Internationalen Arachnologen-Kongresses. Wien*, *1980*: 377–382.

Deeleman-Reinhold, C. L. 1995. The Ochyroceratidae of the Indo-Pacific region (Araneae). *Raffles Bulletin of Zoology Supplement*, 2: 1–103.

Delle, N. 1937. Zemgales lidzenuma, Augszemes un Lietuvas devona nogulumi. Acta Universitatis Latviensis, Matēmatikas un Dabas Zinātnu Fakultātes Serija 2(5): 105–384.

De Geer, C. 1778. *Mémoires pour Servir à l'Histoire des Insectes, vol. 7*. Stockholm.

De Kay, J. E. 1825. Observations on a fossil crustaceous animal of the order Branchiopoda. *Annals of the New York Lyceum of Natural History*, 1: 375–377.

Delfinado, M. D. & Baker, E. W. 1974. Varroidae, a new family of mites on honeybees (Mesostigmata: Acarina). *Journal of the Washington Academy of Science*, 64: 4–10.

De Lima, W. 1890. Note sur un nouval *Eurypterus* du Rothliegendes de Bussaco. *Communicações da Commisão dos Trabalhos Geològicos da Portugal*, 2: 153–157.

Desmarest, A.-G. 1822. Les crustacés proprement dits. 66–154. *In Histoire naturelle des crustacés fossiles, sous les rapports zoologiques et geologiques*. F.-G. Levrault, Paris, Strasbourg, **xx** pp.

Diener, C. 1924. Eurypterida. *In* Diener, C. (ed.). *Fossilium Catalogus I : Animalia*. W. Junk, Berlin, pp. 1–26.

Dix, E. & Pringle, J. 1929. On the fossil Xiphosura from the South Wales Coalfield with a note on the myriapod *Euphoberia*. *Summary of Progress, Geological Survey of Great Britain*, 1928: 90–113.

Dix, E. & Pringle, J. 1930. Some Coal Measures arthropods from the South Wales Coalfield. *Annals and Magazine of Natural History*, 6: 136–144.

Dohrn, A. 1881. Die Pantopoden des Golfes von Neapel und der angrenzenden Meeresabschnitte. *Monographie der Fauna und Flora des Golfes von Neapel*, 3: 1–252.

Doleschall, L. 1852. Systematisches Verzeichnis der im Kaiserthum Österreich vorkommenden Spinnen. *Sitzungsberichte der Mathematisch-Naturwissenschaflichen Classe der Kaiserlichen Akademie der Wissenschaft*, 9: 622–651.

Donnadieu, A. L. 1875. *Recherches pour servir a l'histoire des Tetranyques*. – These. Faculte des Sciences de Lyon: 134 pp. [Thesis also published in a regular journal in 1876.]

Dresco, E. 1970. Recherches sur la variabilité et la phylogénie chez les Opiliones du genre *Ischyropsalis* C. L. Koch (Fam. Ischyropsalidae), avec la creation de la famille nouvelle des Sabaconidae. *Bulletin du Muséum National d'Histoire Naturelle, 2e Serie*, 41: 1200–1213.

Dubey, D. P. 1985. A preliminary note on the eurypterid and trilobitid remains from the Upper Vidhyan rocks around Rewa, Madhya Pradesh. *Current Trends in Geology (IV Indian Geological Congress)*, 6: 63–78.

Dubinin, V. B. 1953. Feather mites (Analgesoidea). II Families Epidermoptidae and Freyanidae. *Fauna SSSR. Paukoobrazyne* 6 (6): 3–411. [In Russian].

Dubinin, V. B. 1957. On the orientation of the cephalic end of the Devonian pycnogonids of the genus *Palaeoisopus* and their systematic position in the Arthropoda. *Doklady Akademii Nauk SSSR*, 117: 881–884. [In Russian].

Dufour, L. 1820. Description de cinq Arachnides nouvelles. *Annales génerales des sciences physiques*, 5: 198-209.

Dugès, A. 1834. Recherches sur l'ordre des Acariens et la famille des Trombidés en particular. *Annales des Sciences Naturelles, Zoologie, série 2*, 1: 5–46.

Dujardin, F. 1851. Sur des acariens a quatre pieds, parasites des vegeteux et qui doivent former un genre particulier (*Phytoptus*). *In* Observations Zoologiques. *Annales des Sciences Naturelles, série 3*, 15: 158–175.

Dunbar, C. O. 1923. Kansas Permian insects, Part 2. *Paleolimulus*, a new genus of Paleozoic Xiphosura, with notes on other genera. *American Journal of Science, 5th series*, 5: 443–454.

Dunbar, C. O. 1924. Kansas Permian insects. Part 1. The geologic occurrence and the environment of the insects. *American Journal of Science, 5th series*, 7: 171–209.

Dunlop, J. A. 1995. Redescription of the Pennsylvanian trigonotarbid arachnid *Lissomartus* Petrunkevitch 1949 from Mazon Creek, Illinois. *Journal of Arachnology*, 23: 118–124.

Dunlop, J. A. 1996. A trigonotarbid arachnid from the Upper Silurian of Shropshire. *Palaeontology*, 39: 605–614.

Dunlop, J. A. 1998. A fossil whipscorpion from the Lower Cretaceous of Brazil. *Journal of Arachnology*, 26: 291–295.

Dunlop, J. A. 1999. A replacement name for the trigonotarbid arachnid *Eotarbus* Dunlop. *Palaeontology*, 42: 191.

Dunlop, J. A. 2002. Arthropods from the Lower Devonian Severnya Zemlya Formation of October Revolution Island, Russia. *Geodiversitas*, 24: 349–379.

Dunlop, J. A. 2004. A spiny harvestman (Arachnida: Opiliones) from the Upper Carboniferous of Missouri, USA. *In* Logunov, D. V. & Penney, D (eds). Proceedings of the 21st European Colloquium of Arachnology, St.-Petersburg, 4–9 August 2003. *Arthropoda Selecta*, Special Issue No. 1: 67–74.

Dunlop, J. A. 2007. A large parasitengonid mite (Acari, Erythraeoidea) from the Early Cretaceous Crato Formation of Brazil. *Fossil Record*, 10: 91–98.

Dunlop, J. A. 2018. Systematics of the Coal Measures whip spiders (Arachnida: Amblypygi). *Zoologischer Anzeiger*, 273: 14–22.

Dunlop, J. A. & Anderson, L. I. 2005. A fossil harvestman (Arachnida, Opiliones) from the Mississippian of East Kirkton, Scotland. *Journal of Arachnology*, 33: 482–489.

Dunlop, J. A. & Bernardi, L. F. de O. 2014. An opilioacarid mite in Cretaceous Burmese amber. *Naturwissenschaften*, 101: 759–763.

Dunlop, J. A. & Bertrand, M. 2011. Fossil labidostomatid mites (Prostigmata: Labidostommatidae) from Baltic amber. *Acarologia*, 51: 191–198.

Dunlop, J. A. & Braddy, S. J. 2011. *Cteniza bavincourti* and the nomenclature of arachnid related trace fossils. *Journal of Arachnology*, 39: 250–257.

Dunlop, J. A. & Brauckmann, C. 2006. A new trigonotarbid from the Coal Measures of Hagen Vorhalle, Germany. *Fossil Record*, 9: 130–136.

Dunlop, J. A. & Falkenhagen, R. 2014. Raubmilbe in Aragonit. *Fossilien*, 2014(3): 53–55.

Dunlop, J. A. & Giribet, G. 2003. The first fossil cyphophthalmid (Arachnida, Opiliones) from Bitterfeld amber, Germany. *The Journal of Arachnology*, 31: 371–378.

Dunlop, J. A. & Horrocks, C. A. 1996. A new Upper Carboniferous whip scorpion (Arachnida: Uropygi: Thelyphonida) with a revision of the British Carboniferous Uropygi. *Zoologischer Anzeiger*, 234: 293–306.

Dunlop, J. A. & Horrocks, C. A. 1997. Phalangiotarbid arachnids from the Coal Measures of Lancashire, UK. *Geological Magazine*, 134: 369–381.

Dunlop, J. A. & Jekel, D. 2009. Nomenclatural notes on fossil spiders. *Bulletin of the British arachnological Society*, 14: 357–360.

Dunlop, J. A. & Martill, D. M. 2002. The first whipspider (Arachnida: Amblypygi) and three new whipscorpions (Arachnida: Thelyphonida) from the Lower Cretaceous Crato Formation of Brazil. *Transactions of the Royal Society of Edinburgh, Earth Sciences*, 92: 325–334.

Dunlop, J. A. & Mammitzsch, L. 2010. A new genus and species of harvestman from Baltic amber. *Palaeodiversity*, 3: 23–32.

Dunlop, J. A. & Mitov, P. G. 2009. Fossil harvestmen (Arachnida, Opiliones) from Bitterfeld amber. *ZooKeys*, 16: 347–375.

Dunlop, J. A. & Mitov, P. G. 2011. The first fossil cyphophthalmid harvestman from Baltic amber. *Arachnologische Mitteilungen*, 40: 47–54.

Dunlop, J. A. & Penney, D. 2012. *Fossil arachnids.* Siri Scientific Press, Manchester, 192 pp.

Dunlop, J. A. & Poschmann, M. 1997. On the Emsian (Lower Devonian) arthropods of the Rhenish Schiefergebirge: 1. *Xenarachne*, an enigmatic arachnid from Willwerath, Germany. *Paläontologische Zeitschrift*, 71: 231–236.

Dunlop, J. A. & Rößler, R. 2003. An enigmatic, solifuge-like fossil arachnid from the Lower Carboniferous of Kamienna Góra (Intra-Sudetic Basin), Poland. *Paläontologische Zeitschrift*, 77: 389–400.

Dunlop, J. A. & Rößler, R. 2013. The youngest trigonotarbid *Permotarbus schuberti* n. gen., n. sp. from the Permian Petrified Forest of Chemnitz in Germany. *Fossil Record*, 16: 229–243.

Dunlop, J. A. & Selden, P. A. 2004. A trigonotarbid arachnid from the Lower Devonian of Tredomen, Wales. *Palaeontology*, 47: 1469–1476.

Dunlop, J. A. & Selden, P. A. 2013. Scorpion fragments from the Silurian of Powys, Wales. Arachnology, 16: 27–32.

Dunlop, J. A., Anderson, L. I. & Braddy, S. J. 1999. A new chasmataspid (Chelicerata: Chasmataspida) from the Lower Devonian of the Midland Valley of Scotland. *Transactions of the Royal Society of Edinburgh, Earth Sciences*, 89: 161–165.

Dunlop, J. A., Anderson, L. I. & Braddy, S. J. 2004. A redescription of *Chasmataspis laurencii* Caster & Brooks (Chelicerata: Chasmataspidida) from the Middle Ordovician of Tennessee, USA, with remarks on chasmataspid phylogeny. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 94: 207–205.

Dunlop, J. A., Bartel, C. & Mitov, P. G. 2012. An enigmatic spiny harvestman from Baltic amber. *Fossil Record*, 15: 91–101.

Dunlop, J. A., Frahnert K. & Mąkol, J. 2018. A giant mite in Cretaceous Burmese amber. *Fossil Record*, 21: 285–290.

Dunlop, J. A., Harms, D. & Penney, D. 2008. A fossil tarantula (Araneae: Theraphosidae) from Miocene Chiapas amber, Mexico. *Revista Ibérica de Aracnología*, 15: 9–17.

Dunlop, J. A., Kontschán, J. & Zwanzig, M. 2013. Fossil mesostigmatid mites (Mesostigmata: Gamasina, Microgyniina, Uropodina), associated with longhorn beetles (Coleoptera: Cerambycidae) in Baltic amber. *Naturwissenschaften*, 100: 337–344.

Dunlop, J. A., Selden, P. A. & Giribet, G. 2016. Penis morphology in a Burmese amber harvestman. *The Science of Nature*, 103: 1–5.

Dunlop, J. A., Sempf, C. & Wunderlich, J. 2010. A new opilioacarid mite in Baltic amber. *In* Nentwig, W., Entling, M. & Kropf, C. (eds). *European Arachnology 2008*, pp. 59–70.

Dunlop, J. A., Walter, D. E., Kontschán, J. 2018. A putative fossil sejid mite (Parasitiformes: Mesostigmata) in Baltic amber re-identified as an anystine (Acariformes: Prostigmata). *Acarologia*, 58: 665–672.

Dunlop, J. A., Wunderlich, J. & Poinar Jr., G. O. 2004. The first fossil opilioacariform mite (Acari: Opilioacariformes) and the first Baltic amber camel spider (Solifugae). Transactions of the Royal Society of Edinburgh: Earth Sciences, 94: 261–273.

Dunlop, J. A., Anderson, L. I., Kerp, H. & Hass, H. 2004. A harvestman (Arachnida: Opiliones) from the Early Devonian Rhynie cherts, Aberdeenshire, Scotland. *Transactions of the Royal Society of Edinburgh, Earth Sciences*, 94: 341–354.

Dunlop, J. A., Bird, T. L., Brookhart, J. O. & Bechly G. 2015. A camel spider from Cretaceous Burmese amber. *Cretaceous Research*, 56: 265–273.

Dunlop, J. A., Fayers, S. F., Hass, H. & Kerp, H. 2006. A new arthropod from the early Devonian Rhynie chert, Aberdeenshire (Scotland), with a remarkable feeding device in the mouthparts. *Paläontologische Zeitschrift*, 80: 296–306.

Dunlop, J. A., Kontschán, J., Walter, D. E. & Perrichot, V. 2014. An ant-associated mesostigmatid mite in Baltic amber. *Biology Letters*, 10: 20140531.

Dunlop, J. A., Wang, Y., Selden, P. A. & Krautz, P. 2014. A trigonotarbid arachnid from the Pennsylvanian Astrasado Formation of the Kinney Brick Quarry, New Mexico. *Palaeontological Contributions*, 9: 1–6.

Dunlop, J. A., Legg, D. A., Selden, P. A., Fet, V., Schneider, J. W. & Rößler, R. 2016. Permian scorpions from the Petrified Forest of Chemnitz, Germany. *BMC Evolutionary Biology*, 16:72.

Dunlop, J. A., Wirth, S., Penney, D., McNeil, A., Bradley, R. S., Withers, P. J. & Preziosi, R. F. 2012. A minute fossil phoretic mite recovered by phase-contrast X-ray computed tomography. *Biology Letters*, 8: 475–460.

Ebert, T. 1892. *Prestwichia* (*Euproops*) *scheeleana*. – *Abhandlung und Jahrbuch Königliche Preußische Geologisches Landesanstalt*, 10: 215–220.

Edgecombe, G. D. 1998. Early myriapodous arthropods from Australia: *Maldybulakia* from the Devonian of New South Wales. *Records of the Australian Museum*, 50: 293–314.

Ehlers, G. M. 1935. A new eurypterid from the Upper Devonian of Pennsylvania. *Contributions from the Museum of Palaeontology, University of Michigan*, 4(18): 291–295.

Eichwald, E. 1854. Die Grauwackenschichten von Live- und Esthland. *Bulletin de la Société Imperiale des Naturalistes de Moscou*, 27: 1–211.

Eichwald, E. 1860. *Lethaea Rossica. Vol. 1. Seconde section de l'ancienne Période*. Librairie et Imprimerie de E. Schweizerbart, Stuttgart, 1657 pp.

Eldredge, N. 1974. Revision of the suborder Synziphosurina (Chelicerata, Merostomata), with remarks on merostome phylogeny. *American Museum Novitates*, 2543: 1–41.

Elias, M. K. 1936. Character and significance of the late Paleozoic flora of Garnett, Kansas. *Journal of Geology*, 44: 9–23.

Eller, E. R. 1938*a*. A review of the xiphosuran genus *Belinurus* with the description of a new species, *B. allegayensis*. *Annals of the Carnegie Museum*, 27: 129–150.

Eller, E. R. 1938*b*. A new xiphosuran, *Euproops morani*, from the Upper Devonian of Pennsylvania. *Annals of the Carnegie Museum*, 27: 152–153.

Eller, E. R. 1940. *Belinurus carteri* a new xiphosuran *from the Upper Devonian of Pennsylvania. Annals of the Carnegie Museum*, 28: 133–136.

Ellingsen, E. 1906. Report on the pseudoscorpions of the Guinea Coast (Africa) collected by Leonardo Fae. *Annali del Museo Civico de Storia Naturale di Genova*, (3)2: 243–265.

Ellingsen, E. 1909. On some North American pseudoscorpions collected by Dr. F. Silvestri. *Bollettino del Laboratoria di Zoologia Generale e Agraria della R. Scuola sup. d'Agricoltura, Portici*, 3: 216–221.

Elsaka, M., Mitov, P. G. & Dunlop, J. A. 2019. New fossil harvestmen (Arachnida: Opiliones) in the Hoffeins amber collection. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 292/2: 155–169.

Elzinga, R. J. 1993. Larvamimidae, a new family of mites (Acari: Dermanyssoidea) associated with army ants. *Acarologia*, 34: 95–103.

Emerton, J. H. 1875. Notes on spiders from Caves in Kentucky, Virginia and Indiana. *American Naturalist*, 9: 278–281.

Emerton, J. H. 1882. New England spiders of the family Theridiidae. *Transactions of the Connecticut Academy of Arts and Sciences*, 6: 1–86.

Engel, M. S. & Grimaldi, D. A. 2014. Whipspiders (Arachnida: Amblypygi) in amber from the Early Eocene and mid-Cretaceous, including maternal care. *Novitates Paleoentomologicae*, 9: 1–17.

Engel, M. S., Breitkreuz, L. C. V., Cai, C.-y., Alvarado, M., Azar, D. & Huang, D.-y. 2016. The first Mesozoic microwhip scorpion (Palpigradi): a new genus and species in mid-Cretaceous amber from Myanmar. *The Science of Nature*, 103: 19.

Eskov, K. Y. 1984. A new fossil spider family from the Jurassic of Transbaikalia from (Araneae: Chelicerata). *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 1984: 645–653.

Eskov, K. Y. 1987. A new archaeid spider (Chelicerata: Araneae) from the Jurassic of Kazakhstan, with notes on the so-called “Gondwanan” ranges of recent taxa. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 175: 81–106.

Eskov, K. Y. 1992. Archaeid spiders from Eocene Baltic amber (Chelicerata: Araneida: Arachaeidae) with remarks on the so-called “Gondwanan” ranges of Recent taxa. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 185: 311–328.

Eskov, K. Y. & Marusik, Y. M. 1992. [Fossil spiders of the family Nesticidae.] *Palaeontologicheskii Zhurnal*, 2: 87–95. [In Russian]

Eskov, K. Y. & Selden, P. A. 2005. First record of spiders from the Permian period (Araneae: Mesothelae). *Bulletin of the British arachnological Society*, 13: 111–116.

Eskov, K. Y. & Wunderlich, J. 1995 (for 1994). On the spiders of the Taimyr ambers, Siberia, with the description of a new family and with general notes on the spiders from the Cretaceous resins. *Beiträge zur Araneologie*, 4: 95–107.

Eskov, K. Y. & Zonstein, S. 1990. First Mesozoic mygalomorph spiders from the Lower Cretaceous of Siberia and Mongolia, with notes on the system and evolution of the infraorder Mygalomorphae (Chelicerata: Araneae). *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 178: 325–368.

Eskov, K. Y. & Zonstein, S. L. 2000. The first Ctenizoid Mygalomorph Spiders from Eocene Baltic amber (Araneida: Mygalomorphae: Ctenizidae). *Paleontological Journal*, 34: S268–S274. [Translated into English; original in Russian]

Etheridge Jr., R. 1877. On the remains of a large crustacean, probably indicative of a new species of *Eurypterus*, or allied genus (*Eurypterus*? *Stevensoni*), from the Lower Carboniferous Series (Cementstone Group) of Berwickshire. *Quarterly Journal of the Geological Society*, 33: 223–228.

Evans, G. O. 1957. An introduction to the British Mesostigmata (Acarina) with key to families and genera. *Journal of the Linnean Society of London*, 43: 203–259.

Ewing, H. E. 1917*a*. A synopsis of the genera of beetle mites with special reference to the North American fauna. *Annals of the Entomological Society of America*, 10: 117–132.

Ewing, H. E. 1922. Studies on the taxonomy and biology of the tarsonemid mites, together with a note on the transformation of *Acarapis* (*Tarsonemus*) *woodi* Rennie (Acarina). *Canadian Entomologist*, 54: 104–113.

Ewing, H. E. 1929. A synopsis of the American arachnids of the primitive order Ricinulei. *Annals of the Entomological Society of America*, 22: 583–600.

Ewing, H. E. 1930. A fossil arachnid from the Lower Carboniferous shales (Pococno formation) of Virginia. *Annals of the Entomological Society of America*, 23: 641–643.

Ewington, D. L., Clarke, M. J. & Banks, M. R. 1989. A Late Permian fossil horseshoe crab (*Paleolimulus*: Xiphosura) from Poatina, Great Western Tiers, Tasmania. *Papers and Proceedings of the Royal Society of Tasmania*, 123: 127–131.

Fage, L. 1912. Etudes sur les araignées cavernicoles. I. Revision des Ochyroceratidae (n. fam.). *In* Biospelogica, XXV. *Archives de Zoologie expérimentale et generale*, 10: 97–162.

Fage, L. 1913. Etudes sur les Araignées cavernicoles. II. Revision des Leptonetidae. *In* Biospelogica, XXIX. *Archives de Zoologie expérimentale et generale*, 10: 479–576.

Fain, A. 1956. Une nouvelle famille d'acariens endoparasites des chauves-souris: Gastronyssidae fam. nov. *Annales de la Société Belge de Médecine Tropicale*, 36: 87–98.

Fain, A. 1957. Notes sur l'acariase des voies respiratoires chez l'homme et chez les animaux. Description de deux nouveaux acariens chez un lémurien et des rongeurs. *Annales de la Société Belge de Médecine Tropicale*, 37: 469–481.

Fain, A. 1961. Une nouvelle famille d'acariens, parasites de serpents du genre *Mehelya* au Congo: Omentolaelaptidae *Fam. nov*. (Mesostigmata). *Revue de Zoologie et de Botanique Africaine*, 64: 283–296.

Fain, A. 1967*a*. Nouveaux hypopes vivant dans les follicules pileux de Rongeurs américains. *Revue de Zoologie et de Botanique Africaine*, 76: 157–162.

Fain, A. 1967*b*. Un acarien remarquable récolté sur un Tarsier (Heterocoptidae f.n. : Sarcoptiformes). *Zoologischer Anzeiger*, 178: 90–94.

Fain, A. 1968. Deux nouveaux Acariens Cavernicoles du Gabon (Sarcoptiformes). *Revue Biologia Gabonica*, 4: 195–205.

Fain, A. 1974. Acariens récoltés par le Dr. J. Travé aux îles subantarctiques. I. Familles Saproglyphidae et Hyadesidae (Astigmates). *Acarologia*, 16: 684–708.

Fain, A. 1977. Nouveaux Acariens Astigmates cavernicoles du Kenya. *Revue suisse de Zooogie,* 84: 565–581.

Fayers, S. R., Dunlop, J. A. & Trewin, N. H. 2005. A new early Devonian trigonotarbid arachnid from the Windyfield chert, Rhynie, Scotland. *Journal of Systematic Palaeontology*, 2: 269–284.

Feider, Z. 1955. Arachnida, Acarina Trombidioidea. *Fauna RPR*, 5: 1–187.

Feider, Z. & Vasiliu, N. 1969. Révision critique de la famille des Nicoletiellidae. *In* Proc. 2nd International Congress of Acarology, Sutton Bonington, England 1967. Acad. Kiado, Budapest: pp. 202–207.

Feldmann, R. M., Schweitzer, C. E., Dattilo, B. & Farlow, J. O. 2011. Remarkable preservation of a new genus and species of limuline horseshoe crab from the Cretaceous of Texas, USA. *Palaeontology*, 54: 1337–1346.

Feldmann, R. M., Vega, F. J., Applegate, S. P., & Bishop, G. A. 1998. Early Cretaceous arthropods from the Tlayua Formation at Tepexi de Rodriguez, Puebla, México. *Journal of Paleontology*, 72: 79–90.

Fet, V. & Bechly, G. 2001. Case 3120a. Liochelidae, fam. nov. (Scorpiones): proposed introduction as a substitute name for Ischnuridae Simon, 1879, as an alternative to the suggested emendment of Ischnurinae Fraser, 1957 (Insecta, Odonata) to Ischnurainae in order to remove homonymy. *Bulletin of Zoological Nomenclature*, 58: 280–281.

Fischer de Waldheim, G. 1839. Notes sur un crustacé fossile du genre *Eurypterus* de Podolie. *Bulletin de la Societe Imperiale des Naturalistes de Moscou*, 11: 125–128.

Flower, R. H. 1945. A new Deepkill eurypterid. *American Midland Naturalist*, 34: 717–719.

Flower, R. [H.] 1969. Merostomes from a Cotter horizon of the El Paso Group. *New Mexico Bureau of Mines and Mineral Resources Memoir*, 22: 35–44.

Fraipont, J. 1889. Euryptérides nouveaux du Dévonien Supérieur de Belgique (Psammites du Condroz). *Annales de la Société Géologique de Belgique*, 17: 53–62.

Forsslund, K.-H. 1941. Schwedische Arten der Gattung *Suctobelba* Paoli (Acari, Orbatei). *Zoologiska bidrag fran Uppsala*, 20: 381–396.

Forsslund, K.-H. 1947. Über die Gattung *Autogneta* Hull (Acari, Oribatei). *Zoologiska bidrag fran Uppsala*, 25: 111–117.

Forsslund, K.-H. 1956. Schwedische Oribatei (Acari). III. *Entomologisk Tidskrift*, 77: 210-218.

Forster, R. R. 1948. A new sub-family and species of New Zealand Opiliones. *Records of the Auckland Institute and Museum*, 3: 313–318.

Forster, R. R. 1954. The New Zealand harvestmen (sub-order Laniatores). *Canterbury Museum Bulletin*, 2: 1–329.

Forster, R. R. 1955. A new family of spiders of the sub-order Hypochilomorphae. *Pacific Science*, 9: 277–285.

Forster, R. R. & Forster, L. 1999. *Spiders of New Zealand and their worldwide kin.* University of Otago Press, Dunedin, vi + 270 pp.

Forster, R. R. & Platnick, N. I. 1984. A review of archaeid spiders and their relatives, with notes on the superfamily Palpimanoidea (Arachnida: Araneae). *Bulletin of the American Museum of Natural History*, 178: 1–106.

Forster, R. R. & Wilton, C. L. 1973. The spiders of New Zealand. Part IV. *Otago Museum Bulletin*, 4: 1–309.

Frič, A. 1873. Fauna der Steinkohlenformation Böhmens. *Archiv für Naturwissenschaftliche Landesdurchforschung von Böhmen*, 2(2): 1–16.

Frič, A. 1899*a*. On *Prolimulus woodwardi*. *Geological Magazine*, 6: 57–58.

Frič, A. 1899*b*. *Fauna der Gaskohle und der Kalksteine der Permformation Böhmens. Vol. IV*: pp. 33–64.

Frič, A. 1901. *Fauna der Gaskohle und der Kalksteine der Permformation Böhmens. Vol. IV, part 2*. Myriopoda pars II. Arachnoidea, pp. 56–63, pls 153, 154, Prague.

Frič, A. 1904. *Palaeozoische Arachniden*. A. Frič, Prague, 85 pp.

Fritsch, K. von 1906. Beitrag zur Kenntnis der Tierwelt der deutschen Trias. *Abhandlungen der naturforschender Gesellschaft Halle*, 24: 220–285.

Fry, W. G. 1978. A classification within the pycnogonids. *Zoological Journal of the Linnean Society*, 63: 35–58.

Funk, R. C. 1975. Megacelaenopsidae, a new family of Celaenopsoidea (Acari, Mesostigmata). *Acarologia*, 16: 382–393.

Funk, R. C. 1977. *Triplogynium krantzi* n. g., n. sp., type of Triplogyniidae n. fam. (Mesostigmata, Celaenopsoidea). *International Journal of Acarology*, 3: 71–79.

García-Villafuerte, M. Á. 2006*a*. A new fossil *Episinus* (Araneae, Theridiidae) from Tertiary Chiapas amber, Mexico. *Revista Ibérica de Aracnologia*, 13: 120–125.

García-Villafuerte, M. Á. 2006*b*. Selenopidae y Thomisidae (Arachnida: Araneae) en ámbar de Chiapas, México. *Boletin Sociedad Entomológica Aragonesa*, 38: 209–212.

García-Villafuerte, M. Á. 2008. Primer registro fósil del género *Hemirraghus* (Araneae, Theraphosidae) en ámbar del Terciario, Chiapas, México. *Revista Ibérica de Aracnología*, 16: 43–47.

García-Villafuerte, M. Á. 2018. Primer registro fósil de un lapsino (Araneae, Salticidae) en el ámbar de Chiapas, México. *Boletín de la Sociedad Geológica Mexicana*, 70: 689–708.

García-Villafuerte, M. Á .2019. *Metagonia esquincacanoi* sp. nov.: el primer registro fósil de la familia Pholcidae (Arachnida: Araneae) en el ámbar de Chiapas, México. *Revista Mexicana de Biodiversidad*, 90: e902927.

Garwood, R. J., Dunlop, J. A., Giribet, G. & Sutton, M. D. 2011. Anatomically modern Carboniferous harvestmen demonstrate early cladogenesis and stasis in Opiliones. *Nature Communications*, 2:444: 1–7.

Garwood, R. J., Sharma, P. P., Dunlop, J. A., Giribet, G. 2014. A Paleozoic stem group to mite harvestmen revealed through integration of phylogenetics and development. *Current Biology*, 24: 1–7.

Garwood, R. J., Dunlop, J. A., Selden, P. A., Spencer, A. R. T., Atwood, R. C., Vo, N. T. & Drakopoulos, M. 2016. Almost a spider: a 305-million-year-old fossil arachnid and spider origins. *Proceedings of the Royal Society B*, 283: 20160125.

Gaud, J. & Atyeo, W. T. 1975. Gabuciniidae, famille nouvelle de Sarcoptiformes plumicoles. *Acarologia*, 16: 522–561.

Gaud, J. & Ateyo, W. T. 1976. Ascouracarinae, n. sub-fam. des Syringobiidae, Sarcoptiformes plumicoles. *Acarologia*, 18: 143–162.

Gaud, J. & Ateyo, W. T. 1977. A new name for *Ovacarus* and Ovacaridae (Acarina: Analgoidea). *Acarologia*, 18: 568–569.

Gaud, J. & Atyeo, W. T. 1978. Nouvelles superfamilles pour les Acariens astigmates parasites d'oiseaux. *Acarologia*, 19: 678–685.

Gaud, J. & Mouchet, J. 1961. Deux genres nouveaux de Sarcoptiformes plumicoles. Un nouveau critere dans la systematique des Analgesoidea. *Acarologia*, 3: 591–598.

Gaud, J., Atyeo, W.T. & Berla, H.F. 1972. Acariens Sarcoptiformes plumicoles parasites des Tinamous. *Acarologia*, 14: 393–453.

Gaud, J., Atyeo, W. T. & Klompen, J. S. H. 1989. Oconnoriidae, a new family of feather mites (Acarina, Pterolichoidea). *Journal of Entomological Science*, 24: 417–421.

Geinitz, H. B. 1882. *Kreischeria wiedei*, ein Pseudoskorpion aus der Steinkohlenformation von Zwickau. *Zeitschrift der Deutschen geologischen Gesellschaft*, 34: 238–242.

Gerecke, R., Smith, I. M. & Cook, D. R. 1999. Three new species of *Apheviderulix* gen. nov. and proposal of Apheviderulicidae fam. nov. (Acari: Hydrachnidia: Eylaoidea). *Hydrobiologia*, 397: 133–147.

Gerson, U. & Walter, D. E. 1998. Transfer of *Mecognatha* Wood from Stigmaeidae to Mecognathidae, fam. nov., a new synonomy, and a key to families of Raphignathoidea (Acari: Prostigmata). *Systematic and Applied Acarology*, 3: 145–147.

Gerstaecker, C. E. A. 1863. Pantopoda. 248–350. *In* Carus, J. V. & Gerstaecker, C. E. A. (eds*). Handbuch der Zoologie, 2.* W. Engelmann, Leipzig, 642 pp.

Gertsch, W. J. 1941. Report on some arachnids from Barro Colorado Island, Canal Zone. *American Museum Novitates*, 1146: 1–14.

Gertsch, W. J. & Davis, L. I. 1946. Report on a collection of spiders from Mexico. V. *American Museum Novitates*, 1313: 1–11.

Gervais, P. M. 1844. Remarques sur la famille des Scorpiones et déscriptions des plusiers espèces nouvelles de la collection du Muséum. *Archives du Muséum d'Histoire Naturelle, Paris*, 4: 201–240.

Gess, R. W. 2013. The earliest record of terrestrial animals in Gondwana: A scorpion from the Famennian (Late Devonian) Witpoort Formation of South Africa. *African Invertebrates*, 54: 373–379.

Giebel, C. G. 1856. *Die Insekten und Spinnen der Vorwelt mit steter Berücksichtigung der lebenden Insekten und Spinnen; monographisch dargestellt*. Leipzig, 511 pp.

Gill, E. L. 1909. An arachnid from the Coal Measures of the Tyne Valley. *Transactions of the Natural History Society of Northumberland, Durham and Newcastle-upon-Tyne, new series*, 3(2): 3–16.

Gill, E. L. 1911. A Carboniferous arachnid from Lancashire. *Geological Magazine*, 48: 395–398.

Gill, E. L. 1924. Fossil arthropods from the Tyne Coalfield. *Geological Magazine*, 61: 445–471.

Giribet, G. & Dunlop, J. A. 2005. First identifiable Mesozoic harvestman (Opiliones: Dyspnoi) from Cretaceous Burmese amber. *Proceedings of the Royal Society B*, 272: 1007–1013.

Giribet, G., Tourhino, A. L., Shih, C.-k. & Ren, D. 2012. An exquisitely preserved harvestman (Arthropoda, Arachnida, Opiliones) from the Middle Jurassic of China. *Organisms, Diversity & Evolution*, 12: 51–56.

Giribet, G., Sharma, P. P., Benavides, L. R., Boyer, S. L., Clouse, R. M., De Bivort, B. L., Dimitrov, D., Kawauchi, G. Y., Murienne, J., Schwendinger, P. J. 2012. Evolutionary and biogeographical history of an ancient and global group of arachnids (Arachnida: Opiliones: Cyphophthalmi) with a new taxonomic arrangement. *Biological Journal of the Linnean Society*, 105: 92–130.

Gistel, J. 1848. *Naturgeschichte des Thierreichs für höhere Schulen*. Stuttgart, pp. 155–156.

Gjelstrup, P. & Solhøy, T. 1994. Oribatid mites (Acari). *In* The Zoology of Iceland. *Steenstrupia*, (3) 57: 1–78.

Glushenko, N. V. & Ivanov, V. K. 1961. [*Paleolimulus* from the Lower Permian of the Donetz Basin.] *Paleontologiceskij Žurnal*, 1861: 128–130. [in Russian]

Goldenberg, F. 1873. *Fauna Saraepontana Fossilis. Die fossilien Thiere aus der Steinkohlenformation von Saarbrücken. Erstes Heft*. Chr. Möllinger Verlag, Saarbrücken, 26 pp.

Goodnight, J. C. & Goodnight, M. L. 1942. Phalangids from Central America and the West Indies. *American Museum Novitates*, 1184: 1–23.

Gonzalez, R. H. 1978. A new species of xenocaligonellid mite from the Galapagos Islands (Acari). *Proceedings of the Entomological Society of Washington*, 80: 191–196.

González-Sponga, M. A. 1997. Arácnidos de Venezuela. Una nueva familia, dos nuevos géneros y dos nuevas especies de Opiliones Laniatores. *Acta Biologica Venezuelica*, 17: 51–58.

Gourret, P. 1887. Recherches sur les Arachnides tertiaires d'Aix en Provence. *Recueil Zoologique Suisse*, 4: 431–496.

Grabau, A. W. 1920. A new species of *Eurypterus* from the Permian of China. *Bulletin of the Geological Survey of China*, 2: 61–68.

Grandjean, F. 1931. Observations sur les Oribates (1re Série). *Bulletin du Muséum National d'Histoire Naturelle*, 3: 131–144.

Grandjean, F. 1932*a*. Observations sur les Oribates (3e série). *Bulletin du Muséum National d'Histoire Naturelle*, 4: 292–306.

Grandjean, F. 1932*b*. Au sujet des *Palaeacariformes* Trägårdh. *Bulletin du Muséum National d'Histoire Naturelle*, 4: 411–426.

Grandjean, F. 1933. Études sur les Développement des Oribates. *Bulletin de la Société zoologique de France*, 58: 30–61.

Grandjean, F. 1934. La notation des poils gastronotiques et des poils dorsaux du propodosoma chez les Oribates (Acariens). *Bulletin de la Société zoologique de France*, 59: 12–44.

Grandjean, F. 1936*a*. Les Microzetidae n. fam. (Oribates). *Bulletin de la Société zoologique de France*, 61: 60–93.

Grandjean, F. 1936*b*. Les Oribates de Jean Frédéric Hermann et de son père [Arachn. Acar.]. *Annales Société Entomologique de France*, 105: 27–110.

Grandjean, F. 1936*c*. Observations sur les Oribates (10e Série). *Bulletin du Muséum National d'Histoire Naturelle*, 8: 246–253.

Grandjean, F. 1937. Le Genre *Pachygnathus* Dugès (*Alycus* Koch) (Acariens). Cinquième et dernière partie. *Bulletin du Muséum National d'Histoire Naturelle*, 9: 262–269.

Grandjean, F. 1939. Quelque genres d'Acariens appartenant au groupe des Endeostigmata. *Annales des Sciences Naturelles – Zoologie et Biologie Animale, Série 11*, 2: 1–122.

Grandjean, F. 1947*a*. Études sur les Smarisidae et quelques autres Èrythroïdes (Acariens). *Archives de Zoologie Expérimental et Générale*, 85: 1–126.

Grandjean, F. 1947*b*. Les Enarthronota (Acariens). Première série. *Annales des Sciences Naturelles – Zoologie et Biologie Animale*, 8: 213–248.

Grandjean, F. 1948. Les Enarthronota (Acariens). (2e série). *Annales des Sciences Naturelles – Zoologie et Biologie Animale*, 10: 29–58.

Grandjean, F. 1950. Les Enarthronota (Acariens). (3e série). *Annales des Sciences Naturelles – Zoologie et Biologie Animale*, 12: 85–107.

Grandjean, F. 1951. Observations sur les Oribates (22e Série). *Bulletin du Muséum National d'Histoire Naturelle*, 23: 91–98.

Grandjean, F. 1953. Observations sur les Oribates (25e Série). *Bulletin du Muséum National d'Histoire Naturelle*, 25: 155–162.

Grandjean, F. 1954*a*. Observations sur les Oribates (28e série). *Bulletin du Muséum National d'Histoire Naturelle*, 26: 204–211.

Grandjean, F. 1954*b*. Essai de classification des Oribates (Acariens). *Bulletin de la Société zoologique de France*, 78: 421–446.

Grandjean, F. 1954*c*. Etude sur les Palaeacaroïdes (Acariens, Oribates). *Mémoires du Muséum National d'Histoire Naturelle*, 7: 179–274.

Grandjean, F. 1956*a*. Sur deux espèces nouvelles d'oribates (Acariens) apparantées a *Oripoda elongata* Banks 1904. *Archives de Zoologie Expérimentale et Générale*, 93: 185–218.

Grandjean, F. 1956*b*. Galumnidae sans carènes lamellaires (Acariens, Oribates), 1re série. *Bulletin de la Société zoologique de France*, 81: 134–150.

Grandjean, F. 1958*a*. *Perlohmannia dissimilis* (Hewitt) (Acarien, Oribate). *Mémoires du Muséum National d'Histoire Naturelle*, 16: 57–120.

Grandjean, F. 1958*b*. *Charassobates cavernosus* Grandj. 1929 (Acarien, Oribate). *Mémoires du Muséum National d'Histoire Naturelle*, 16: 121–140.

Grandjean, F. 1959. *Polypterozetes cherubin* Berl. 1916 (Oribate). *Acarologia*, 1: 147–180.

Grandjean, F. 1960*a*. Les Mochlozetidae n. fam. (Oribates). *Acarologia*, 2: 101–148.

Grandjean, F. 1960*b*. Les Autognetidae n. fam. (Oribates). *Acarologia*, 2: 575–609.

Grandjean, F. 1961*a*. Les Plasmobatidae n. fam. (Oribates). *Acarologia*, 3: 96–129.

Grandjean, F. 1961*b*. Les Amerobelbidae (Oribates). (1re partie). *Acarologia*, 3: 303–343.

Grandjean, F. 1963. Les Autognetidae (Oribates). Deuxième partie. *Acarologia*, 4: 632–689.

Grandjean, F. 1965*a*. Nouvelles observations sur les Oribates (4e série). *Acarologia*, 7: 91–112.

Grandjean, F. 1965*b*. Oribates mexicains (2e série). *Stelechobates megalotrichus* n.g., n.sp. *Acarologia*, 7: 532–563.

Grandjean, F. 1965*c*. Complément à mon travail de 1953 sur la classification des Oribates. *Acarologia*, 7: 713–734.

Grandjean, F. 1966. Les Staurobatidae n. fam. (Oribates). *Acarologia*, 8: 696–727.

Grandjean, F. 1967. Nouvelles observations sur les Oribates (5e série). *Acarologia*, 9: 242–272.

Grandjean, F. 1969. Considérations sur le classement des Oribates. Leur division en 6 groupes majeurs. *Acarologia*, 11: 127–153.

Grandjean, F. 1970. Nouvelles observations sur les Oribates (8e série). *Acarologia*, 12: 849–876.

Grassi, B. & Calandruccio, S. 1885. Intorno ad un nuovo Aracnide Artrogastro (*Koenenia mirabils* [sic]) che crediamo rappresentante d'un nuovo ordine (Microteliphonida). *Naturalista Siciliano*, 4: 127–133, 162–168.

Griffiths, D. A. 1977. A new family of astigmatid mites from the Iles Crozet, sub-Antarctica, introducing a new concept relating to ontogenetic development of idiosomal setae. *Journal of Zoology, London*, 182: 291–308.

Grimaldi, D. A., Engel, M. S. & Nascimbene, P. C. 2002. Fossiliferous Cretaceous amber from Myanmar (Burma): its rediscovery, biotic diversity, and paleontological significance. *American Museum Novitates*, 3361: 1–71.

Griswold, C., Audisio, T. & Ledford, J. 2012. An extraordinary new family of spiders from caves in the Pacific Northwest (Araneae, Trogloraptoridae, new family). *ZooKeys*, 215: 77–102.

Gromov, A.V. 1998. [A new family, genus and species of scorpions (Arachnida, Scorpiones) from southern Central Asia.] – *Zoologichesky Zhurnal*, 77: 1003–1009. [In Russian.]

Grote, A. R. & Pitt, W. H. 1875. I. Description of a new Crustacean from the Water Lime Group at Buffalo. *Bulletin of the Buffalo Society of Natural Sciences*, 3: 1–2.

Gross, W. 1933. Die unterdevonischen Fische und Gigantostraken von Overath. *Abhandlungen der Preußischen Geologischen Landesanstalt (N. F.)*, 145: 41–77.

Gu Y.-m., Wang C.-s. & Duan Q.-x. 1991. Description of a new genus and a new species and proposal of a new family for the gamasides (Acari: Gamasina). *Acta Zootaxonomica Sinica*, 16: 333–338.

Gu Y.-m., Wang C.-s. & Li J. 1991. A new genus and species of Gamasides off *Julus terrestris* and a new family proposed (Acari: Dermanyssoidea). *Acta Zootaxonomica Sinica*, 16: 428–431.

Guérin-Méneville, F. E. 1839. Gastéracanthes scuptée et de Feisthamel, nouvelles espèces d'aranéides. *Revue zoologique.* 1839: 109–111.

Gunther, C. E. M. 1942. Notes on the Listrophoridae (Acarina: Sarcoptoidea). *Proceedings of the Linnean Society of New South Wales*, 67: 109–110.

Guthörl, P. 1934. Die Arthropoden aus dem Carbon und Perms des Saar-Nahe-Pfalz-Gebietes. *Abhandlungen der Preußischen Geologischen Landesanstalt (N.F.)*, 164: 1–219.

Guthörl, P. 1938. *Eophrynus waechteri* n. sp. (Arac., Anthracom.) aus der Tiefbohrung Stangenmühle, Saar-Karbon. *Senckenbergiana*, 20: 465–470.

Guthörl, P. 1964. Zur Arthropoden-Fauna des Karbons und Perms. 20. Neue Arachniden-Funde (Anthracom.) aus dem Westfal A des Aachener Karbons. *Paläontologische Zeitschrift*, 38: 98–103.

Guthörl, P. 1965. Zur Arthropoden-Fauna des Karbons und Perms. 19. Weiteres über die Arachniden aus dem Westfal und Stefan des saar-lothringischen und pfälzischen Karbons. *Annales Universitatis Saraviensis*, 4: 10–24.

Gutiérrez-Marco, J. C., Tetlie, O. E., Arillo, A. & Rábano, I. 2005. El escorpión más antiguo de la Península Ibérica: *Parisobuthus* sp., del Estefaniense de la cuenca de Villablino (León). *Jornadas de Paleontología*, 22: 127–129.

Haase, E. 1890. Beitrag zur Kenntniss der fossilen Arachniden. *Zeitschrift der Deutsche geologische Gesellschaft*, 1890: 629–657.

Haeckel, E. 1866. *Generale Morphologie der Organismen. Band 2*. Berlin, 574 pp.

Hadži, J. 1931. Skorpionreste aus dem tertiären Sprudelsinter von Böttingen (Schwäbische Alb). *Paläontologische Zeitschrift*, 13: 134–148.

Hadži, J. 1935. Ein eigentumlicher neuer Höhlen-Opilionid aus Nord-Amerika, *Cladonychium corii* g.n. sp. n. *Biologia Generalis*, 11: 49–72.

Haitlinger, R. 2000. A new larval trombidiid, *Porttrombidium sebastiani* g.nov., n.sp. (Acari: Trombidiidae) parasitic on *Calliptamus italicus* (L.) (Orthoptera: Catantopidae) from Portugal. *Zeszyty Naukowe Akademii Rolniczej we Wrocławiu, Zootechnika 57*, 400: 65–68.

Halbert, J. N. 1915. Clare Island Survey, 39. Acarinida. Section II. Terrestrial and marine Acarina. *Proceedings of the Royal Irish Academy*, 31: 45–136.

Hall, J. 1859. *Natural History of New York: Palaeontology, III.* New York State Museum, 532 pp.

Hall, C. E. 1877. Contributions to Palaeontology from the Museum of the Second Geological Survey. *Proceedings of the American Philosophical Society*, 16.

Hall, J. 1884*a*. Description of a New Species of *Stylonurus* from the Catskill Group. *New York State Museum (36th Annual Report)*: 76–77.

Hall, J. 1884*b*. Note on Eurypteridae of the Devonian and Carboniferous Formations of Pennsylvania, with a supplementary note on the *Stylonurus excelsior*. *Proceedings of the American Association for the Advancement of Science*, 33: 420–422.

Hall, J. 1884*c*. Eurypteridae from the Lower Productive Coal Measures in Beaver County, and the Lower Carboniferous Pithole Shale in Venango County. *2nd Geological Survey of Pennsylvania. Report of Progress PPP*: 23–39.

Halliday, R. B. 2006. New taxa of mites associated with Australian termites (Acari: Mesostigmata). *International Journal of Acarology*, 32: 27–38.

Hall, J. & Clarke, J. M. 1888. *Paleontology of New York*. New York, 236 pp.

Hall, J. & Clarke, J. M. 1888. Trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung, and Catskill Groups. *Geological Survey of the State of New York, Palaeontology*, 7.

Hammen, L. van der 1953. Notes on the Oribatei (Acari) of Dutch New Guinea I. *Allonothrus schuilingi* nov. gen., nov. spec. Proc. Kon. Ned. Ak. Wet. C65 (2): 244–250.

Hammen, L. van der 1963. Description of *Fortuynia yunkeri* nov. spec., and notes on the Fortuyniidae nov. fam. (Acarida, Oribatei). *Acarologia*, 5: 152–167.

Hammen, L. van der 1972. A revised classification of the mites (Arachnidea, Acarida) with diagnoses, a key and notes on phylogeny. *Zoologische Mededelingen*, 47: 273–292.

Hammer, M. 1966. Investigations on the Oribatid Fauna of New Zealand, Part 1. *Biologiske Skrifter udgivet af Det Kongelige Danske Videnskabernes Selskab*, 15(2): 1–108.

Hammer, M. 1967. Some oribatids from Kodiak Island near Alaska. *Acta Arctica*, 14: 5–25.

Hammer, M. 1973. Oribatids from Tongatapu and Eua, the Tonga Islands, and from Upolu, Western Samoa. *Biologiske Skrifter udgivet af Det Kongelige Danske Videnskabernes Selskab*, 20(3): 1–70.

Hanken, N.-M. & Størmer, L. 1975. The trail of a large Silurian eurypterid. *Fossils and Strata*, 4: 255–270.

Hansen, H. J. 1894. Arthrogastra Danica: en monographisk fremstilling af de i Danmark levende Meiere og Mosskorpioner med bidrag til sidstnaevnte underordens systematic. *Naturhistorisk Tidsskrift*, (3) 14: 491–554.

Hansen, H. J. & Sørensen, W. 1904. *On two orders of Archanida*. Cambridge University Press, Cambridge, xi + 178 pp.

Harger, O. 1874. Notice of a new spider from the Coal Measures of Illinois. *American Journal of Science*, 7: 219–223.

Harlan, R. 1834. Critical notices of various organic remains hitherto discovered in North America. *Transactions of the Geological Society of Pennsylvania*, 1: 46–112.

Harvey, M. S. 1990. Pezidae, a new freshwater mite family from Australia (Acarina: Halacaroidea). *Invertebrate Taxonomy*, 3: 771–781.

Harvey, M. S. 1991. *Catalogue of the Pseudoscorpionida*. Manchester University Press, Manchester, vi + 726 pp.

Harvey, M. S. 1992. The phylogeny and classification of the Pseudoscorpionida (Chelicerata: Arachnida). *Invertebrate Taxonomy*, 6: 1373–1435.

Harvey, M. S. 2002. Nomenclatural notes on Solifugae, Amblypygi, Uropygi and Araneae (Arachnida). *Records of the Western Australian Museum*, 20: 449–459.

Harvey, M. S. 2003. *Catalogue of the smaller arachnid orders of the world*. CSIRO Publishing, Collingwood VC, xi + 385 pp.

Harvey, M. A. & Selden, P. A. 1995. *Nyranytarbus*, replacement name for *Hemiphrynus* Frič, 1901 (Trigonotarbida: Eophrynidae). *Bulletin of the British arachnological Society*, 10: 74.

Harvey, M. S., Cosgrove, J. G., Harms, D., Selden, P. A., Shih, C., Wang, C.-c. 2018. The oldest chthonioid pseudoscorpion Arachnida: Pseudoscorpiones: Chthonioidea: Chthoniidae: A new genus and species from mid-Cretaceous Burmese amber. *Zoologischer Anzeiger*, 273: 102–111.

Haupt, H. 1956. Beitrag zu Kenntnis der eözanen Arthropodenfauna des Geiselthals. *Nova Acta Leopoldina n.s.*, 128: 1–90.

Haupt, H. 1957. Eine spinnenartige Arthropode aus dem Rotliegenden: *Rhabdotarachnoides simoni* n. gen. n. sp. *Hallesches Jahrbuch für Mitteldeutsche Erdgeschichte*, 2(4): 246–247.

Haupt, J. 1983. Vergleichende Morphologie der Genitalorgane und Phylogenie der liphistomorphen Webspinnen (Araneae: Mesothelae). I. Revision der bisher bekannten Arten. *Zeitschrift für zoologische Systematik und Evolutionsforschung*, 21: 275–293.

Hauschke, N. & Wilde, V. 1987. *Paleolimulus fuchsbergensis* n. sp. (Xiphosura, Merostomata) aus der oberen Trias von Nordwestdeutschland, mit einer Übersicht zur Systematik und Verbreitung rezenter Limuliden. *Paläontologische Zeitschrift*, 61: 87–108.

Hauschke, N. & Wilde, V. 1989. Ein Limulide aus dem Zechstein (Oberes Perm) der Korbacher Bucht (Hessen, Bundesrepublik Deutschland). *Geologisches Jahrbuch Hessen*, 117: 17–21.

Hauschke, N. & Wilde, V. 2000. Limulidenreste aus dem Unteren Buntsandstein (Benberg-Formation) von Beesenlaublingen (Sachesen-Anhalt). *Hallesches Jahrbüch für Geowissenschaften, Reihe B*, 22: 87–90.

Hauschke, N. & Wilde, V. 2004. Palaeogene limulids (Xiphosura) from Saxony-Anhalt (Germany) – systematics and palaeobiogeography. *Hallesches Jahrbuch für Geowissenschaften, Reihe B,* 18: 161–168.

Hauschke, N. & Wilde, V. 2008. Limuliden aus dem Oberen Buntsandstein von Süddeutschland. *Hallesches Jahrbuch für Geowissenschaften*, 30: 21–26.

Hauschke, N., Osterink, H. W. & Wilde, V. 2009. Erster Nachweis eines Limuliden (Xiphosura, Limulacea) im Muschelkalk von Winterswijk (Niederlande). *Der Aufschluss*, 60: 13–23.

Hauschke, N., Wilde, V. & Brauckmann, C. 2004. Triassic limulids from Madagascar – missing links in the distribution of Mesozoic Limulacea. *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 2004(2): 87–94.

Hauschke, N., Wilde, V. & Pietrzeniuk, E. 1992. Ein Limulide aus dem Muschelkalk (mittlere Trias) von Rüdersdorf bei Berlin. *Zeitschrift für geologische Wissenschaft*, 20: 461–466.

Hedgpeth, J. W. 1978. A reappraisal of the Palaeopantopoda with description of a species from the Jurassic. *Zoological Journal of the Linnean Society*, 63: 23–34.

Heer, O. 1865. *Die Urwelt der Schweiz.* Friedrich Schultheß, Zürich, xxix + 622 pp.

Heetoff, M., Helfen, L. & Norton, R. A. 2009. Description of *Neoliodes dominicus* n. sp. (Acari, Oribatida) from Dominican Amber, aided by synchrotron X-ray microtomography. *Journal of Paleontology*, 83: 153–159.

Heide, S. van der 1951. Les arthropodes du terrain houiller du Limbourg meridonale (excepte les scorpions et les insects). *Mededeelingen van de Geologische Stichtung Serie C-IV-3 5*: 1–84.

Heineken C. & Lowe R. T. 1832. Descriptions of two species of Araneidae, natives of Madeira. Zool. Journ., 5: 320–323.

Henderickx, H. 2005. A new *Geogarypus* from Baltic amber (Pseudoscorpiones: Geogarypidae). *Phegea*, 33: 87–92.

Henderickx, H. & Boone, M. 2014. The first fossil *Feaella* Ellingsen, 1906, representing an unexpected pseudoscorpion family in Baltic amber (pseudoscorpiones, Feaellidae). *Entomo-Info*, 25: 5–11.

Henderickx, H. & Boone, M. 2016. The basal pseudoscorpion family Feaellidae Ellingsen, 1906 walks the Earth for 98.000.000 years: an new fossil genus has been found in Cretaceous Burmese amber (Pseudoscorpiones: Feaellidae). *Entomo-Info*, 27: 7–12.

Henderickx, H., Tafforeau, P. & Soriano, C. 2012. Phase contrast synchrotron microtomography reveals the morphology of a partially visible new *Pseudogarypus* in Baltic amber (Pseudoscorpiones: Pseudogarypidae). *Palaeontologia Electronica*, 15: 2;17A,11 pp.

Henderickx, H., Cnudde, V., Masschaele, B., Dierick, M., Vlassenbroeck, J. & Hoorebeke, L. van 2006. Description of a new fossil *Pseudogarypus* (Pseudoscorpiones: Pseudogarypidae) with the use of X-ray micro-CT to penetrate opaque amber. *Zootaxa*, 1305: 41–50.

Hentz, N. M. 1832. On North American spiders. *American Journal of Science*, 21: 99–109.

Hentz, N. M. 1845. Descriptions and figures of the Araneides of the United States. *Boston Journal of Natural History*, 5: 189–202.

Hentz, N. M. 1847. Descriptions and figures of the Araneides of the United States. *Boston Journal of Natural History* 5: 443–478.

Hentz, N. M. 1850. Descriptions and figures of the Araneides of the United States. *Boston Journal of Natural History*, 6: 18–35, 271–295.

Herbst, J. F. W. 1798. *Naturgeschichte der Ungeflügelten Insekten. Zweytes Heft.* Berlin, xx pp.

Hermann, J. F. 1804. *Mémoire Apterologique.* F. G. Levrault, Strasbourg, 144 pp.

Hernández-Ortega, J., Braddy, S. J. & Rak, S. 2010. Trilobite and xiphosuran affinities for putative aglaspidid arthropods *Caryon* and *Drabovaspis*, Upper Ordovician, Czech Republic. *Lethaia*, 43: 427–431.

Heyden, C. H. G. von 1826. Versuch einer sytematischen Eintheilung der Acariden. *Isis von Oken*, 18: 609–613.

Heyden, C. H. G. von 1859. Fossile Insekten aus der Rheinischen Braunkohle. *Palaeontographica*, 8: 1–15.

Hibbert, S. 1836. On the fresh-water limestone of Burdiehouse in the neighbourhood of Edinburgh belonging to the Caboniferous Group of rocks. With supplementary notes on other fresh-water limestones. *Transactions of the Royal Society of Edinburgh*, 13: 169–282.

Hickman, V. V. 1931. A new family of spiders. *Proceedings of the Zoological Society of London (B)*, 1931: 1321–1328.

Hickman, V. V. 1944. On some new Australian Apneumonomorphae with notes on their respiratory system. *Papers and Proceedings of the Royal Society of Tasmania*, 1943: 179–195.

Hickmann, V. V. 1945. A new group of apneumone spiders. *Transactions of the Connecticut academy of Arts and Sciences*, 36: 135–148.

Hickman, V. V. 1949. Tasmanian littoral spiders with notes on their respiratory systems, habits and taxonomy. *Papers and Proceedings of the Royal Society of Tasmania*, 1948: 31–43.

Hickman, V. V. 1957. A fossil spider from Tertiary resin from Allendale Victoria. *Proceedings of the Royal Society of Victoria, N.S.*, 69: 25–27.

Hilton, W. A. 1942. Pantopoda (continued) II. Family Callipallenidae. *Journal of Entomology and Zoology, Pomona College, Claremont*, 34: 38–41.

Hirschmann, W. 1971. A fossil mite of the genus *Dendrolaelaps* (Acarina, Mesostigmata, Digamasellidae) found in amber from Chiapas, Mexico. *University of California Publications in Entomology*, 63: 69–70.

Hirst, S. 1923. On some arachnid remains from the Old Red Sandstone (Rhynie Chert bed, Aberdeenshire). *Annals and Magazine of Natural History, Series 9*, 12: 455–474.

Hoek, P. C. C. 1881. Report on the Pycnogonida dredged by HMS Challenger 1873–76. *Reports of the Scientific Results of the Exploring Vessel HMS Challenger*, 3(10): 1–167.

Hoff, C. C. 1963. Sternophorid pseudoscorpions, chiefly from Florida. *American Museum Novitates*, 1875: 1–36.

Holl, F. 1829. *Handbuch der Peterefactenkunde*. Hilscher, Dresden, 489 pp.

Holland F. D., Jr., Erickson, J. M. & O'Brien, D. E. 1975. *Casterolimulus*: a new Late Cretaceous generic link in limulid lineage. Studies in Paleontology and Stratigraphy. *Bulletin of American Paleontology*, 62: 235–249.

Holmberg, E. L. 1882. Observations à propos du sous-ordre des araignées territélaires (Territelariae), spécialement du genre nordaméricain *Catadysas* Hentz et de la sous-famille Mecicobothrioidae, Holmberg. *Boletín de la Academia Nacional de Ciencas en Cordoba (Argentina)*, 4: 153–174.

Holmberg, E. L. 1883. *Neothereutes darwini* Holmb., representante de una nueva familia de Citrigradas. *Boletín de la Academia Nacional de Ciencas en Cordoba (Argentina)*, 5: 35–48.

Hong Y.-c. 1979. [Discovery of new Carboniferous marine Limulida in Shanxi Province.] Journal?: 999–1000. [In Chinese]

Hong Y.-c. 1982. [Study on new spider genus in amber.] *Science in China*, 24(12): 1500–1515. [In Chinese]

Hong Y.-c. 1983*a*. [Discovery of a Miocene scorpion from the diatoms of Shanwang in Shandong Province.] *Bulletin of the Tianjin Institute of Geology and Mineral Resources*, 8, 17–21. [In Chinese]

Hong Y.-c. 1983*b*. [Discovery of new fossil pseudoscorpiononods in amber.] *Bulletin of the Tianjin Institute of Geology and Mineral Resources*, 8: 24–29. [In Chinese]

Hong Y.-c. 1984. Arachnida. 185–187 *In* Tianjin Institute of Geology and Mineral Resources (eds). *Palaeontological Atlas of North China II. Mesozoic Volume.* Geological Publishing House, Beijing. [In Chinese with English summary]

Hong Y.-c. 1985. *Fossil Insects, scorpionids and araneids in the diatoms of Shanwang*. Geological Publishing House, Beijing, 80 pp.

Hopkins, D. M., Giterman, R. E. & Matthews, J. V. 1976. Interstadial mammoth remains and associated pollen and insect fossils, Kotzebue Sound area, northwestern Alaska. *Geology*, 4: 169–173.

Hradská, I. & Dunlop, J. A. 2013. New records of Pennsylvanian trigonotarbid arachnids from West Bohemia, Czech Republic. *Journal of Arachnology*, 41: 335–341.

Huang, D.-y., Selden, P. A. & Dunlop, J. A. 2009. Harvestmen (Arachnida: Opiliones) from the Middle Jurassic of China. *Naturwissenschaften*, 96: 955–962.

Huang, D.-y., Hormiga, G., Cai, C.-y., Su, Y., Yin, Z.-j., Xia, F.-y. & Giribet, G. 2018. Origin of spiders and their spinning organs illuminated by mid-Cretaceous amber fossils. *Nature Ecology and Evolution*, 2: 623–627.

Huber, B. A. 2003. Southern African pholcid spiders revision and cladistic analysis of *Quamtana gen. nov.* and *Spermophora* Hentz (Araneae: Pholcidae), with notes on male–female covariation. *Zoological Journal of the Linnean Society*, 139: 477–527.

Huber, B. A. & Wunderlich, J. 2006. Fossil and extant species of the genus *Leptopholcus* in the Dominican Republic, with the first cases of egg-parasitism in pholcid spiders (Araneae: Pholcidae). *Journal of Natural History*, 40: 2341–2360.

Hull, J. E. 1920. The spider family Linyphilidae: an Essay in Taxonomy. *Vasculum*, 6: 7–11.

Hünicken, M. A. 1980. A giant fossil spider (*Megarachne servinei*) from Bajo de Véliz, Upper Carboniferous, Argentina. *Boletín de la Academia Nacional de Ciencias, Córdoba*, 53: 317–341.

Hunter, J. R. S. 1886. Notes on the discovery of a fossil scorpion (*Paleophonus caledonicus*) in the Silurian strata of Logan water. *Transactions of the Geological Society of Glasgow*, 8: 169–170.

Hunter, P. E. 1993. A new family of mites, Costacaridae (Mesostigmata: Trigynaspida: Celaenopsoidea), associated with millipedes in Mexico. *Israel Journal of Zoology*, 39: 185–191.

Jacot, A. P. 1936. Some rake-legged mites of the family Cheyletidae. *Journal of the New York Entomological Society,* 44: 17–30.

Jacot. A. P. 1937. Journal of North-American Moss-Mites. *Journal of the New York Entomological Society,* 45: 353–375.

Jackson, R. T. 1906. A new species of fossil *Limulus* from the Jurassic of Sweden. *Arkiv för Zooogi*, 3(11): 1–7.

Jaekel, O. 1914. Ein großer *Pterygotus* aus dem rheinischen Unterdevon. *Palaeontologische Zeitschrift*, 1: 379–382.

Jävi, T. H. 1912/14. Das Vaginalsystem der Sparassiden. *Annales Academiae Scientarum Fennicae*, A4: 1–248.

Jell, P. A. & Duncan, P. M. 1986. Invertebrates, mainly insects, from the freshwater Lower Cretaceous Koonwarra fossil bed (Korumburra Group), South Gippsland, Victoria. *Memoirs of the Association of Australian Palaeontology*, 3: 111–205.

Jeram, A. J. 1994*a*. Scorpions from the Viséan of East Kirkton, West Lothian, Scotland, with a revision of the infraorder Mesoscorpionina. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 84: 283–299.

Jeram, A. J. 1994*b*. Carboniferous Orthosterni and their relationship to living scorpions. *Palaeontology*, 37: 513–550.

Jocqué, R. 1994. Halidae, a new spider family from Madagascar (Araneae). *Bulletin of the British arachnological Society*, 9: 281–289.

Jocqué, R. 2001. Chummidae, a new spider family (Arachnida, Araneae) from South Africa. *Journal of Zoology, London*, 254: 481–493.

Jones, T. R. & Woodward, H. 1888. On some Scandanavian Phyllocarida. *Geological Magazine, New Series, Decade 3*, 5: 145–150.

Jones, T. R. & Woodward, H. 1899. Contributions to fossil Crustacea. *Geological Magazine, New Series, Decade 4*, 6: 388–395.

Jordan, H. & Meyer, H. von 1854. Ueber die Crustaceen der Steinkohlenformation von Saarbrücken. *Palaeontographica*, 4: 1–15.

Judson, M. [L. I.] 2003. Baltic amber pseudoscorpions (Arachnida: Chelonethi): a new species of *Neobisium* (Neobisiidae) and the status of *Obisium rathkii* Koch and Berendt. *Geodiversitas*, 25: 445–450.

Judson, M. L. I. 2007. First fossil reord of the pseudoscorpion family Pseudochiridiidae (Arachnida, Chelonethi, Cheirioidea) from Dominican amber. *Zootaxa*, 1393: 45–51.

Judson, M. L. I. 2009. Cheliferoid pseudoscorpions (Arachnida, Chelonethi) from the Lower Cretaceous of France. *Geodiversitas*, 31: 61–71.

Judson, M. L. 2010. Redescription of *Chelifer eucarpus* Dalman (Arachnida, Chelonethi, Withiidae) and first records of pseudoscorpions in copal from Madagascar and Colombia. *Palaeodiversity*, 3: 33–42.

Judson, M. L. I. 2016. Pseudoscorpions (Arachnida, Chelonethi) in Mexican amber, with a list of extant species associated with mangrove and *Hymenaea* trees in Chiapas. *Boletín de la Sociedad Geológica Mexicana*, 68: 57–79.

Judson, M. L. I. & Mąkol, J. 2009. A mite of the family Tanaupodidae (Arachnida, Acari, Parasitengona) from the Lower Cretaceous of France. *Geodiversitas*, 31: 41–47.

Judson, M. [L. I.] & Wunderlich, J. 2003. Rhagidiidae (Acari, Eupodoidea) from Baltic amber. *Acta zoologica cracoviensa*, 46 (suppl.–Fossil Insects): 147–152.

Jux, U. 1982. *Somaspidion hammapheron* n.gen. n.sp. – ein Arachnide aus dem Oberkarbon der subvaristischen Saumsenke NW Deutschlands. *Paläontologische Zeitschrift*, 56: 77–86.

Kaddumi, H. F. 2007. *Amber of Jordan: the oldest prehistoric insects in fossilized resin. Second edition.* Eternal River Museum of Natural History, Amman, Jordan, 224 pp.

Karg, W. 1965. Larvalsystematische und phylogenetische Untersuchung sowie Revision des Systems der Gamasina Leach, 1915 (Acarina, Parasitiformes). *Mitteilungen aus dem Zoologischen Museum Berlin*, 41, 193–340.

Karg, W. 1978. Zur Kenntnis der Gattungen *Macrocheles* Latreille, 1829 und *Leptolaelaps* Berlese, 1918 (Acarina, Parasitiformes). *Zoologische Jarbücher, Systematik*, 105: 360–367.

Karpinen, E. & Koponen, M. 1973. The subfossil oribatid fauna of Piilonsuo, a bog in southern Finland. *Annales entomologici Fennici*, 39: 22–32.

Karpinen, E. & Koponen, M. 1974. Further observations on subfossil remains of oribatids (Acar., Oribatei) and insects in Piilonsuo, a bog in southern Finland. *Annales entomologici Fennici*, 40: 172–175.

Karpinen, E., Krivolutsky, D. A., Koponen, M., Kozlovskaja, L. S., Laskova, L. M. & Viitasaari, M. 1979. List of subfossil oribatid mites (Acarina, Oribatei) of northern Europe and Greenland. *Annales entomologici Fennici*, 45: 103–108.

Karsch, F. 1879. Arachnologische Beiträge. *Zeitschrift für die gesammten Naturwissenschaften*, 52: 534–562.

Karsch, F. 1880*a*. Arachnologische Blätter. I. Ueber *Corinna* (C. L. Koch) und ihre Verwandtschaften. *Zeitschrift für die gesammten Naturwissenschaften*, 53: 373–378.

Karsch, F. 1880*b*. Arachnologische Blätter. X. Scorpionologische Fragmente. *Zeitschrift für die gesammten Naturwissenschaften*, 53: 404–409.

Karsch, F. 1882. Ueber ein neues Spinnenthier aus der Schlesischen Steinkohle und die Arachnoiden überhaupt. *Zeitschrift der Deutschen geologischen Gesellschaft*, 34: 556–561.

Karsch, F. 1884. Neue Milben in Bernstein. *Berliner Entomologische Zeitschrift*, 28: 175–176.

Kaulfuss, U., Lee, D., Bannister, J., Lindqvist, J., Mildenhall, D., Perrichot, V., Maraun, M. & Schmidt, A. 2011. Discovering the New Zealand amber forest biota. *Geological Society of New Zealand, Newsletter*, 2011(5): 20–25.

Keegan, H. L., Yunker, C. E. & Baker, E. W. 1960. Malaysian parasites. XLVI. *Hystrichonyssus turneri*, n.sp. n.g. representing a new subfamily of Dermasyddidae (Acarina) from a Malayan porcupine. *Studies from the Institute for Medical Research Federation of Malaya*, 107: 455–473.

Keferstein, C. 1834. *Die Naturgeschichte des Erdkörpers in ihren ersten Grundzügen, Vol. 2.* F. Fleischer, Leipzig, 896 pp.

Keifer, H. H. 1966. [untitled.] *Californian Department of Agriculture. Eriophyid Series*, B-21: 1–20.

Keirans, J. E., Lane, R. S. & Cauble, R. 2002. A series of larval *Amblyomma* species (Acari : Ixodidae) from amber deposits in the Dominican Republic. *International Journal of Acarology*, 28: 61–66.

Kethley, J. B. 1974. Developmental chaetotaxy of a paedomorphic celaenopsoid, *Neotenogynium malkini* n.g., sp. (Acari: Parasitiformes: Neotenogyniidae, n. fam.) associated with millipedes. *Annals of the Entomological Society of America*, 67: 571–579.

Kethley, J. B. 1977*a*. The Status of *Hybalicus* Berlese, 1913 and *Oehserchestes* Jacot, 1939 (Acari: Acariformes: Endeostigmata). *Fieldiana Zoology*, 72: 59–64.

Kethley, J. B. 1977*b*. An unusual Parantennuloid, *Philodana johnstoni* n.g., n.sp. (Acari: Parasitiformes: Philodanidae, n. fam.) associated with *Neatus tenebrioides* (Coleoptera: Tenebrionidae) in North America. *Annals of the Entomological Society of America*, 70: 487–494.

Kethley, J. B. 1979. A cladistic analysis of the Trigynaspida (Acari: Parasitiformes) with a review of the higher categories and nominate taxa. *In* Piffl, E. (ed). *Proceedings of the 4th International Congress of Acarology – Saalfelden (Austria)*. Akadémiai Kiakó, Budapest, pp. 459–466.

Kethley, J. B. 1989. Proteonematalycidae (Acari: Acariformes), a new mite family from fore-dune sand of Lake Michigan. *International Journal of Acarology*, 15: 209–217.

Kethley, J. B., Norton, R. A., Bonamo, P. M. & Shear, W. A. 1989. A terrestrial alicorhagiid mite (Acari: Acariformes) from the Devonian of New York. *Micropaleontology*, 35: 367–373.

Kew, H. W. 1911. A synopsis of the false scorpions of Britain and Ireland. *Proceedings of the Royal Irish Academy (B)*, 29: 38–64.

Keyserling, E. 1877. Ueber amerikanische Spinnenarten der Unterordnung Citigradae. *Verhandlungen der Zoologisch-Biologischen Gesellschaft in Wien*, 26: 609–708.

Keyserling, E. 1880*a*. *Die Spinnen Amerikas, I. Laterigradae*. Nürnberg, 1, 283 pp.

Keyserling, E. 1880*b*. Neue Spinnen aus Amerika. I. *Verhandlungen der Zoologisch-Biologischen Gesellschaft in Wien*, 29: 293–349.

Keyserling, E. 1882. Neue Spinnen aus Amerika. III. *Verhandlungen der Zoologisch-Biologischen Gesellschaft in Wien*, 31: 269–314.

Keyserling, E. 1884. *Die Spinnen Amerikas. Theridiidae.* Nürnberg, 2, 222 pp.

Khaustov A. A. 2000. Bembidiacaridae, a new family of mites (Acari: Heterostigmata) associated with carabid beetles of the genus *Bembidion* (Coleoptera: Carabidae). *Acarina*, 8: 3–8.

Khaustov, A. A. & Perkovsky, E. E. 2010. The first fossil record of mites of the family Pyemotidae (Acari: Heterostigmata), with description of a new species from Rovno Amber. *Palaeontological Journal*, 44: 418–421.

Khaustov, A. A. & Poinar jr., G. O. 2010. *Protoresinacarus brevipedis* gen. n., sp. n. from Early Cretaceous Burmese amber: the first fossil record of mites of the family Resinacaridae (Acari: Heterostigmata: Pyemotoidea). *Historical Biology*: 23: 219–222.

Khaustov A. A., Sergeyenko A. L. & Perkovsky E. E. 2014. First fossil record of mites of the family Tuckerellidae (Acari: Tetranychoidea) from Rovno amber with description of a new species. *International Journal of Acarology*, 40: 367–369.

Kirchner, H. 1923. *Limulus Sandbergi* n. sp. aus dem fränkischen oberen Buntsandstein (Plattensandstein). *Centralblatt für Mineralogie, Geologie und Paläontologie*, 20: 634–639.

Kim, C. M. 2008. Euphysalozerconidae, a new mesostigmatid mite family (Acari: Mesostigmata: Trigynaspida: Aenictequoidea). *Acarologia*, 48: 33–38.

Kim, J.-p. & Nam, K.-s. 2008. [Mesozoic spider (Araneae: Pisauridae) from Korea.] *Korean Arachnology*, 24: 119–125. [in Korean with English summary]

Kim, J.-p. & Nam, K.-s. 2008. [Mesozoic spider (Aranea:Lycosidae) from China.] *Korean Arachnology*, 28: 35–45. [in Korean with English summary]

Kin, A. & Błażejowski, B. 2014. The horseshoe crab of the genus *Limulus*: living fossil or stabilomorph? *PLoS ONE*, 9(10): e108036.

Kishida, K. 1930. A new scheme of classification of spider families and genera. *Lansania*, 2: 33–43.

Kjellesvig-Waering, E. N. 1934. Note on a new eurypterid from the Moscow Shales of New York. *American Journal of Science, 5th Series*, 27: 386–387.

Kjellesvig-Waering, E. N. 1948*a*. Two new eurypterids from the Silurian of Indiana. *Journal of Paleontology*, 22: 465–472.

Kjellesvig-Waering, E. N. 1948*b*. The Mazon Creek Eurypterid: A revision of the genus *Lepidoderma*. *Scientific Papers, Illinois*, 3(4): 1–48.

Kjellesvig-Waering, 1950*a*. A new Silurian Hughmilleria from West Virginia. *Journal of Paleontology*, 24: 226–228.

Kjellesvig-Waering, 1950*b*. A new Silurian Eurypterid from Florida. *Journal of Paleontology*, 24: 229–231.

Kjellesvig-Waering, E. N. 1951. Downtonian (Silurian) Eurypterida from Perton, near Stoke Edith, Herefordshire. *Geological Magazine*, 88: 1–24.

Kjellesvig-Waering, E. N. 1954. Note on a new Silurian (Downtonian) scorpion from Shropshire, England. *Journal of Palaeontology*, 28: 485–486.

Kjellesvig-Waering, E. N. 1955. A new phyllocarid and eurypterid from the Silurian of Florida. *Journal of Paleontology*, 29: 295–297.

Kjellesvig-Waering, E. N. 1958. The genera, species and subspecies of the family Eurypteridae Burmeister, 1845. *Journal of Paleontology*, 32: 1107–1148.

Kjellesvig-Waering, E. N. 1959. A taxonomic review of some late Paleozoic Eurypterida. *Journal of Palaeontology*, 33: 251–256.

Kjellesvig-Waering, E. N. 1961*a*. Eurypterida of the Devonian Holland Quarry Shale of Ohio. *Fieldiana, Geology*, 14(5): 79–98.

Kjellesvig-Waering, E. N. 1961*b*. The Silurian Eurypterida of the Welsh Boderland. *Journal of Paleontology*, 35: 251–256.

Kjellesvig-Waering, E. N. 1963*a*. Revision of some Upper Devonian Stylonuridae (Eurypterida) from New York and Pennsylvania. *Journal of Paleontology*, 37: 490–495.

Kjellesvig-Waering, E. N. 1963b. Pennsylvanian invertebrates of the Mazon Creek area, Illinois, Eurypterida. *Fieldiana, Geology*, 14(9): 169–197.

Kjellesvig-Waering, E. N. 1964*a*. A synopsis of the Family Pterygotidae Clarke and Ruedemann 1912 (Eurypterida). *Journal of Paleontology*, 38: 331–361.

Kjellesvig-Waering, E. N. 1964*b*. Eurypterida: Notes on the subgenus *Hughmilleria* (*Nanahughmilleria*) from the Silurian of New York. *Journal of Paleontology*, 38: 410–412.

Kjellesvig-Waering, E. N. 1966*b*. Silurian scorpions of New York. *Journal of Paleontology*, 40: 359–375.

Kjellesvig-Waering, E. N. 1966*c*. The scorpions of Trinidad and Tobago. *Caribbean Science*, 6: 123–135.

Kjellesvig-Waering, E. N. 1969. A new phalangiotarbid (Arachnida) from the Pennsylvanian of Oklahoma. *Journal of Paleontology*, 43: 1280–1282.

Kjellesvig-Waering, E. N. 1971. A new Downtonian stylonurid from Central England (Silurian, Eurypterida). *Journal of Paleontology*, 45: 538–539.

Kjellesvig-Waering, E. N. 1972. *Brontoscorpius anglicus*: a giant Lower Palaeozoic scorpion from central England. *Journal of Paleontology*, 46: 39–42.

Kjellesvig-Waering, E. N. 1973. A new Silurian *Slimonia* (Eurypterida) from Bolivia. *Journal of Paleontology*, 47: 549–550.

Kjellesvig-Waering, E. N. 1979. Eurypterids. *In* Jaanusson, V., Laufeld, S. & Skoglund, R. (eds). Lower Wenlock faunal and floral dynamics – Vattenfallet section, Gotland. *Sveriges Geologiska Undersökning, Serie C*, NR 762, Årsbok 73 NR, 3: 121–136.

Kjellesvig-Waering, E. N. 1986. A restudy of the fossil Scorpionida of the world. *Palaeontographica Americana*, 55: 1–287.

Kjellesvig-Waering, E. N. & Caster, K. E. 1955. The Pterygotidae of the Silurian Vernon Shales of New York. *Journal of Paleontology*, 29: 1041–1047.

Kjellesvig-Waering, E. N. & Heubusch, C. A. 1962. Some Eurypterida from the Ordovician and Silurian of New York. *Journal of Paleontology*, 36: 211–221.

Kjellesvig-Waering, E. N. & Leutze, W. P. 1966. Eurypterida from the Silurian of West Virginia. *Journal of Paleontology*, 40: 1109–1122.

Kjellesvig-Waering, E. N. & Størmer, L. 1952. The *Dolichopterus–Strobilopterus* group in the Eurypterida. *Journal of Palaeontology*, 26: 659–661.

Klompen, H. & Grimaldi, D. 2001. First Mesozoic record of a parasitiform mite: a larval argasid tick in Cretaceous amber (Acari: Ixodida: Argasidae). *Annals of the Entomological Society of America*, 94: 10–15.

Kobayashi, T. 1933. On the occurrence of Xiphosuran remains in Chosen (Korea). *Japanese Journal of Geology and Geography*, 10: 175–182.

Koçak, A. Ö. & Kemal, M. 2008. New synonyms and replacement names in the genus group taxa of Araneida. *Centre for entomological Studies, Miscellaneous Papers,* 139–140: 1–4.

Koch, C. L. 1829–1844. Arachniden. *In* Panzer (ed). *Faunae Insectorum Germaniae initia. Fortgesetzt von Herrich-Schäffer, Hefte 111-190.* Regensburg. [1833, Hefte 119–121]

Koch, C. L. 1834. Arachniden. *In* Panzer (ed). *Faunae Insectorum Germaniae initia. Hefte 122-125, 127.* Regensburg.

Koch, C. L. 1835. Arachniden. *In* Panzer (ed). *Faunae Insectorum Germaniae initia. Hefte 128-131.* Regensburg.

Koch, C. L. 1837. *Uebersicht des Arachnidensystems 1*. C. H. Zeh'sche Buchhandlung, Nürnberg, 39 pp.

Koch, C. L. 1839a. *Uebersicht des Arachnidensystems 2*. C. H. Zeh'sche Buchhandlung, Nürnberg, 38 pp.

Koch, C. L. 1839*b*. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Sechster Band.* C. H. Zeh'sche Buchhandlung, Nürnberg, 156 pp.

Koch, C. L. 1839*c*. *Deutschlands Crustaceen, Myriapoden und Arachniden*. Hefte 23–30.

Koch, C. L. 1842*a*. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Neunter Band.* C. H. Zeh'sche Buchhandlung, Nürnberg, 108 pp.

Koch, C. L. 1842*b*. *Uebersicht des Arachnidensystems 3*. C. H. Zeh'sche Buchhandlung, Nürnberg, 130 pp.

Koch, C. L. 1843a. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Zehnter Band.* C. H. Zeh'sche Buchhandlung, Nürnberg, 142 pp.

Koch, C. L. 1843*b*. *Uebersicht des Arachnidensystems 3*. C. H. Zeh'sche Buchhandlung, Nürnberg, 130 pp [continuation of 1842b; see above].

Koch, C. L. 1844. Systematische Übersicht über die Ordnung der Zecken. *Archiv für Naturgeschichte*, 1: 217–239.

Koch, C. L. 1846. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben.* Dreizehnter Band. C. H. Zeh'sche Buchhandlung, Nürnberg, 234 pp.

Koch, C. L. 1847. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Vierzehnter Band.* C. H. Zeh'sche Buchhandlung, Nürnberg, 210 pp.

Koch, C. L. 1851. *Übersicht des Arachnidensystems 5*. C. H. Zeh'sche Buchhandlung, Nürnberg, 104 pp.

Koch, C. L. & Berendt, G. C. 1854. Die im Bernstein befindlichen Myriapoden, Arachniden und Apteren der Vorwelt. *In* Berendt, G. C. *Die in Bernstein befindlichen organischen Reste der Vorwelt gesammelt in verbindung mit mehreren bearbeitetet und herausgegeben 1.* Berlin, Nicolai, 124 pp.

Koch, L. 1866. *Die Arachniden-Familie der Drassiden. 1–6*. J. L. Lotzbeck, Nürnberg, 352 pp.

Koch, L. 1871–1883. *Die Arachniden Australiens nach der Natur beschrieben und abgebildet.* Bauer & Raspe, Nürnberg, 1489 pp.

Koch, L. 1873. *Uebersichtliche Darstellung der europäischen Chernetiden (Pseudoscorpione).* Bauer und Raspe, Nürnberg.

Konikiewicz, M & Mąkol, J. 2014. A fossil Paratrombiinae mite (Actinotrichida: Trombidioidea) from the Rovno amber, Ukraine. *Zootaxa*, 3847: 583–589.

Konikiewicz, M & Mąkol, J. 2018. Insight into fossil fauna of terrestrial Parasitengona mites (Trombidiformes: Prostigmata) – The first representatives of Erythraeina Welbourn, 1991 and Trombidiina Welbourn, 1991 in Burmese amber. *Cretaceous Research*, 89: 60–74.

Konikiewicz, M., Sontag, E., Mąkol, J. 2016. The first description of a microtrombidiid mite (Actinotrichida: Prostigmata, Microtrombidiidae) from Baltic amber, with notes on related extant genera and species. *Paläontologische Zeitschrift*, 90: 493–501.

Konikiewicz, M., Wohltmann, A., Mąkol, J. 2016. The first fossil *Calyptostoma* Cambridge, 1875 (Actinotrichida: Prostigmata: Calyptostomatidae) from Baltic amber. *Annales Zoologici (Warszawa)*, 66: 337–344.

Kraepelin, K. 1899. Zur Systematik der Solifugen. *Mitteilungen aus dem Naturhistorischen Museum in Hamburg*, 16: 195–258.

Kraepelin, K. 1901. Palpigradi und Solifugae. *Tierreich*, 12: i–x, 1–159.

Kraepelin, K. 1905. Die geographische Verbreitung der Skorpione. - *Zoologische Jahrbücher, Abtheilung für Systematik*, 22: 321–364.

Kramer, P. 1879. Neue Acariden. *Archiv für Naturgeschichte*, 45: 13–16.

Kramer, P. 1885. Ueber Halarachne Halichoeri, Allm. *Zeitschrift für Naturwissenschaften*, 58: 1–31.

Krause, T., Hauschke, N. & Wilde, V. 2009. Ein Limulide aus den Gelben Basisschichten des Oberen Muschelkalks von Ohrdruf bei Gotha (Thüringen). *Geowissenschaftliche Mitteilungen von Thüringen*, 13: 163–168.

Kratochvíl, J. 1958. Höhlenweberknechte Bulgariens (Palpatores – Nemastomatidae). *Acta Academiae Scientiarum Čechoslovenicae Basis Brunensis*, 30: 523–576.

Križnar, M. & Hitij, T. 2010. Nevretenčarji (Invertebrates) Strelovške formacije. *Scopolia*, Suppl. 5: 91–107.

Krivolutsky, D. A. & Krasilov, B. A. 1977. Oribatid mites from Upper Jura deposits of USSR. 16–24. *In* Skarlato, O. A. & Balashov, Y. S. (eds) *Morphology and Diagnostics of Mites.* Zoological Institute, Leningrad, 85 pp. [in Russian]

Krivolutskii, D. A. & Sidorchuk, E. A. 2003. Subfossil oribatid mites in the Holocene deposits of the Arkhangel'sk Oblast. *Doklady Biological Sciences*, 392: 428–431.

Krüger, J. & Dunlop, J. A. 2010. Schizomids (Arachnida: Schizomida) from Dominican Republic amber. *Alavesia*, 3: 43–53.

Kues, B. S. & Kietzke, K. K. 1981. A large assemblage of a new eurypterids from the Red Tanks Member, Madera Formation (Late Pennsylvania - Early Permian) of New Mexico. *Journal of Paleontology*, 55: 709–729.

Kühl, G. & Lourenço, W. 2017. A new genus and species of fossil scorpion (?Euscorpiidae) from the Early–Middle Eocene of Pesciara (Bolca, Italy). *Paläontologische Zeitschrift*, 91: 283–290.

Kühl, G., Poschmann, M. & Rust, J. 2013. A ten-legged sea spider (Arthropoda: Pycnogonida) from the Lower Devonian Hunsrück Slate (Germany). *Geological Magazine*, 150: 556–564.

Kühl, G., Bergammn, A., Dunlop, J. A., Garwood, R. J. & Rust, J. 2012. Redescription and palaeobiology of *Palaeoscorpius devonicus* Lehmann, 1944 from the Lower Devonian Hunsrück Slate of Germany. *Palaeontology*, 55: 775–787.

Kulczynski, L. 1902. Species Oribatinarum (Oudms.) (Damaeinarum Michael) in Galicia collectae. *Dissertationum mathematicarum et physicarum Academiae Litterarum Cracoviensis*, 42: 1–50.

Kulicka, R. 1990. The list of animal inclusions in Baltic amber from collection of the Museum of Earth in Warsaw. *Prace Muzeum Ziemi*, 41: 144–146.

Kumar, P. 2004. Antiquity of Phthiraptera: fossil evidence. *Journal of the Paleontological Society of India*, 49: 159–168.

Kumar, P. & Kumar, P. 1999. Insect remains from the Upper Triassic sediments of Satpura Basin, India. *Current Science*, 76: 1539–1541.

Kumar, P., Ja Jha, N., Battachaharya, D. D. & Pande, A. C. 2011. Acarid mites from Early Permian sediments of the Chamba Valley, Himachal Pradesh, India. *Journal of the Palaeontological Society of India*, 56: 171–179.

Kury, A. B. 2003. Annotated catalogue of the Laniatores of the New World (Arachnida, Opiliones). *Revista Ibérica de Aracnología*, Volumen especial monográfico 1: 1–337.

Kury, A. B. & Pérez González, A. 2002. A new family of Laniatores from northwestern South America (Arachnida, Opiliones). *Revista Ibérica de Aracnología*, 6: 3–11.

Kušta, J. 1883. *Anthracomartus krejcii*, eine neue Arachnide aus dem Böhmischen Karbon. *Sitzungsberichte der Königlich Böhmischen Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1883: 7.

Kušta, J. 1884*a*. Neue Arachniden aus der Steinkohlenformation von Rakonitz. *Sitzungsberichte der Königlich Böhmischen Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1884: 398–401.

Kušta, J. 1884*b*. *Thelyphonus bohemicus* n. sp., ein fossiler Geisselscorpion aus der Steinkohlenformation von Rakonitz. *Sitzungsberichte der Königlich Böhmischen Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1884: 186–191.

Kušta, J. 1885. Neue fossile Arthropoden aus dem Noeggarathienschiefer von Rakonitz. *Sitzungsberichte der Königlich Böhmischen Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1885: 1–7.

Kušta, J. 1888. O nových arachnidech z karbonu Rakovnického. (Neue Arachniden aus der Steinkohlenformation bei Rakonitz). *Sitzungsberichte der Königlich Böhmischen Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1888: 194–208.

Kutorga, S. 1838. *Beitrag zur Kenntnis der organischen Uberreste des Kupfersandsteins am westlichen Abhange des Urals*. St. Petersburg, 38 pp.

Kuznetsov, N. N., Khaustov, A. A. & Perkovsky, E. E. 2010. First record of mites of the family Stigmaeidae (Acari, Raphignathoidea) from Rovno amber with description of a new species of the genus *Mediolata*. *Vestnik zoologii*, 44: 545–547.

Lamarck, J. B. P. A. 1801. *Systême des animaux sans vertèbres*. Lamarck and Deterville, Paris, xx pp.

Lamont, A. 1955. Scottish Silurian Chelicerata. *Transactions of the Edinburgh Geological Society*, 16: 200–216.

Lamsdell, J. C. 2011. The eurypertid *Stoermeropterus conicus* from the Lower Silurian of the Pentland Hills, Scotland. *Monographs of the Palaeontographical Society*, 165: 1–84.

Lamsdell, J. C. 2012. Redescription of *Drepanopterus pentlandicus* Laurie, 1892, the earliest known mycteropoid (Chelicerata: Eurypterida) from the early Silurian (Llandovery) of the Pentland Hills, Scotland. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, 103: 77–103.

Lamsdell, J. C. 2013*a*. Revised systematics of the Palaeozoic 'horseshoe crabs' and the myth of the monophyletic Xiphosura. *Zoological Journal of the Linnaen Society*, 167: 1–27.

Lamsdell, J. C. 2013*b*. Redescription of *Drepanopterus pentlandicus* Laurie, 1892, the earliest known mycteropoid (Chelicerata: Eurypterida) from the early Silurian (Llandovery) of the Pentland Hills, Scotland. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, 103: 77–103.

Lamsdell, J. C. & Selden, P. A. 2013. Babes in the wood – a unique window into sea scorpion ontogeny. *BMC Evolutionary Biology* 13: 98.

Lamsdell, J. C., Braddy, S. J. & Tetlie, O. E. 2010. The systematics and phylogeny of the Stylonurina (Arthropoda: Chelicerata: Eurypterida). *Journal of Systematic Palaeontology*, 8: 49–61.

Lamsdell, J. C., Hoşgör, İ & Selden, P. A. 2013. A new Ordovician eurypterid (Arthropoda: Chelicerata) from southeast Turkey: evidence for a cryptic Ordovician record of Eurypterida. *Gondwana Research*, 23: 354–366.

Lamsdell, J. C., Simonetta, L. & Selden, P. A. 2013. First eurypterid from Italy: a new species of *Adelophthalmus* (Chelicerata: Eurypterida) from the Upper Carboniferous of the Carnic Alps (Friuli, NE Italy). *Revista Italiana di Paleontologia et Stratigrafia*, 119: 147–151.

Lamsdell, J. C., Xue, J.-h. & Selden, P. A. 2013. A horseshoe crab (Arthropoda: Chelicerata: Xiphosura) from the Lower Devonian (Lochkovian) of Yunnan, China. *Geological Magazine*, 150: 367–370.

Lamsdell, J. C., Braddy, S. J., Loeffler, E. J. & Dineley, D. L. 2010. Early Devonian stylonurine eurypterids from Arctic Canada. *Canadian Journal of Earth Sciences*, 47: 1405–1415.

Lane, R. S. & Poinar jr., G. O. 1986. First fossil tick (Acari: Ixodidae) in new world amber. *International Journal of Acarology*, 12: 75–78.

Latreille, P. A. 1795. Observations sur la variété des organes de la bouche des tiques, et distribution méthodique des insectes de cette famille d'après les caractères établis sur la conformation de ces organes. *Magasin Encyclopédique, ou Journal des Sciences, des Lettres et des Arts*, 4: 15–20.

Latreille, P. A. 1796. *Précis de characters génériques des insects, disposés dans un ordre naturel.* Prévot, Paris.

Latreille, P. A. 1802. *Histoire naturelle, générale et particulière, des Crustacés et des Insectes.* Dufart, Paris.

Latreille, P. A. 1804*a*. Tableau méthodique des Insectes. *Nouveau Dictionnaire d'histoire naturelle*, 24: 129–200.

Latreille, P. A. 1804*b*. *Histoire naturelle, generale et particulière, des Crustacés et des Insectes, Vol. 7.* F. Dufart, Paris, pp. 144–305.

Latreille, P. A. 1806. *Genera Crustaceorum et Insectorum. Vol. 1.* A. Koenig, Paris, pp. 82–127.

Latreille, P. A. 1809. *Genera Crustaceorum et Insectorum. Vol. 4.* Paris, pp. 73–371.

Latreille, P. A. 1810. *Considérations générales sur l'Ordre Naturel des Animaux composant les Classes des Crustacés, des Arachnides et des Insectes*. Paris, 446 pp.

Latreille, P. A. 1819. [Articles sur les Araignées]. Nouveau Dictionnaire d'histoire naturelle 30-35 : ?? pp.

Latreille, P. A. 1829. Les Arachnides. *In* Cuvier, G (ed.) *Le règne animal, nouv. ed.* Paris, pp. 206–291.

Laurentiaux-Viera, F. & Laurentiaux, D. 1961. *Prothelyphonus neerlandicus*, nov. sp., Uropyge du Westphalien du Limbourg Hollandais. *Mededelingen van de Geologische Stichting, N.S.,* 13: 29–34.

Laurentiaux-Viera, F. & Laurentiaux, D. 1963. Sur quelques restes nouveaux d'Arachnides du terrain houiller. *Annales de la Société Geologique du Nord*, 83: 23–29.

Laurie, M. 1892. On some eurypterid remains from the Upper Silurian rocks of the Pentland Hills. *Transactions of the Royal Society of Edinburgh*, 37: 151–162.

Laurie, M. 1896. Further notes on the anatomy and development of scorpions, and their bearing on the classification of the order. *Annals and Magazine of Natural History, series 6,* 17: 185–193.

Laurie, M. 1899. On a Silurian scorpion and some additional eurypterid remain from the Pentland Hills. *Transactions of the Royal Society of Edinburgh*, 39: 575–590.

Lawrence, R. F. 1931. The harvest-spiders (Opiliones) of South Africa. *Annals of the South African Museum*, 29: 341–508.

Leach, W. E. 1815. A tabular view of the external characters of four classes of animals which Linné arranged under Insecta; with the distribution of the genera composing three of these classes into orders, andc. And descriptions of several new genera and species. *Transactions of the Linnean Society of London*, 11: 306–400.

Leach, W. E. 1819. *Dictionnaire des Sciences Naturelles, Vol. 14*. Paris, pp. 537–538.

Leary, R.L. 1980. *Labriscorpio alliedensis*, a new Carboniferous scorpion from Rock Island County, Illinois. *Journal of Paleontology*, 54: 1255–1257.

Lee, D.C. 1985. Sarcoptiformes (Acari) of South Australian soils. 4. Primitive oribate mites (Cryptostigmata) with an extensive unfissured hysteronotal shield and aptychoid. *Records of the South Australian Museum*, 19: 39–68.

Leech, R. & Matthews Jr., J. V. 1971. *Xysticus archaeopalpus* (Arachnida: Thomisidae), a new species of crab spider from Pliocene sediments in western Alaska. *Canadian Entomologist*, 103: 1337–1340.

Legg, D. A. 2014. *Sanctacaris uncata*: the oldest chelicerate (Arthropoda). *Naturwissenschaften*, 101: 1065–1073.

Lehmann, W.M. 1944. *Palaeoscorpius devonicus* n. g., n. sp., ein Skorpion aus dem rheinischen Unterdevon. *Neues Jährbuch für Paläontologie, Monatshefte, B*: 177–185.

Lehtinen, P. T. 1967. Classification of the cribellate spiders and some allied families, with notes on the evolution of the suborder Araneomorpha. *Annales Zoologici Fennici*, 4: 199–468.

Lehtinen, P. T. 1981. New Holothyrina (Arachnida, Anactinotrichida) from New Guinea and South America. *Acarologia*, 22: 3–13.

Lenz, H. 1886. Beiträge zur Kenntniss der Spinnenfauna Madagascars. *Zoologische Jahrbücher, Systematik,* 1: 379–408.

Lerner, A. J., Lucas, S. G. & Lockley, M. 2017. First fossil horseshoe crab from the Triassic of North America. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 286/3: 289–302.

Leutze, W. P. 1958. Eurypterids from the Silurian Tymochtee dolomite of Ohio. *Journal of Paleontology*, 32: 937–942.

Leutze, W. P. 1961. Arthropods from the Syracuse Formation, Silurian of New York. *Journal of Paleontology*, 35: 49–64.

Levy, G. 2007. The first troglobite scorpion from Israel and a new chactoid family (Arachnida: Scorpiones). *Zoology in the Middle East*, 40: 91–96.

Li S.-q. & Wunderlich, J. 2008. Sinopimoidae, a new spider family from China (Arachnida, Araneae). *Acta zootaxonomica sinica*, 33: 1–6.

Lin Q.-b., Zhang, Z.-f. & Wang, B.-z. 1989. New evidences for Miocene climatic optimum event—review on the Miocene spider fossils from Shanwang collection. *Proceedings of International Symposium on Pacific Neogene and Marine Events*. Nanjing University Press, pp. 137–147.

Lin Q.-b, Yao Y-m., Xiang W.-d. & Xia Y.-r. 1988. An Oligocene micropalaeoentomofauna from Gubei district of Shandong and its ecological environment. *Acta Micropalaeontologica Sinica*, 5: 331–345.

Lindquist E. E. & Krantz, G. W. 2002. Description of, and validation of names for, the genus *Crotalomorpha* and the family Crotalomorphidae (Acari: Heterostigmata). *Systematic & Applied Acarology,* 7: 129–142.

Lindquist, E. E. & Moraza, M. L. 1993. Pyrosejidae, a new family of trigynaspid mites (Acari: Mesostigmata: Cercomegistina) from Middle America. *Acarologia*, 34: 283–307.

Lindquist, E. E. & Palacios-Vargas, J. G. 1991. Proterorhagiidae (Acari: Endeostigmata), a new family of rhagidiid-like mites from Mexico. *Acarologia*, 32: 341–363.

Lindquist, E. E., Kaliszewski, M. & Rack, G. 1990. Athyreacaridae, a new family of mites (Acari: Heterostigmata) associated with scarab beetles of the genus *Neoathyreus* (Coleoptera: Scarabaeidae). *Acarologia*, 31: 161–176.

Linnaeus, C. 1758. *Systema naturae, 10th edition. Vol 1*. L. Salvii, Holmiae.

Loman, J. C. C. 1900. Ueber die geographische Verbreitung der Opilioniden. *Zoologische Jahrbücher, Systematik*, 16: 71–104.

Lourenço, W. R. 1995. Déscription de trois nouveaux genres et quatre nouvelles espèces de scorpions Buthidae de Madagascar. *Bulletin du Muséum National d'Histoire Naturelle (4)*, 17A: 95–106.

Lourenço, W. R. 1996*a*. *Faune de Madagascar. 87. Scorpions (Chelicerata, Scorpiones).* Muséum National d'Histoire Naturelle, Paris, 102 pp.

Lourenço, W. R. 1996*b*. Premier cas connu d'un sub-fossile de scorpion dans le copal de Madagascar. *Compte Reundus de l'Académie des Sciences, Paris, Sér. IIa*, 323: 889–891.

Lourenço, W. R. 1998. Panbiogeographie, les distributions disjontes et le concept de familie relictuelle chez les Scorpions. *Biogeographica*, 74: 133–144.

Lourenço, W. R. 2000*a*. More about the Buthoidea of Madagascar, with special references to the genus *Tityobuthus* Pocock (Scorpiones, Buthidae). *Revue suisse de Zoologie*, 107: 721–736.

Lourenço, W. R. 2000*b*. Premier cas d'un sub-fossile d'araignee appartenant au genre *Archaea* Koch and Berendt (Archaeidae) dans le copal de Madagascar. *Comptes rendus de l'Académie des Sciences Paris, Sciences de la Terre et des planets*, 330: 509–512.

Lourenço, W. R. 2001. A remarkable scorpion fossil from the amber of Lebanon. Implications for the phylogeny of Buthoidea. *Comptes rendus de l'Académie des Sciences Paris, Sciences de la Terre et des planets*, 332: 641–646.

Lourenço, W. R. 2002. The first scorpion fossil from the Cretaceous amber of Burmese (Burma). New implications for the phylogeny of Buthoidea. *Comptes Rendus Palevol*, 1: 97–101.

Lourenço, W. R. 2003. The first scorpion fossil from the Cretaceous amber of France. New implications for the phylogeny of Chactoidea. *Comptes Rendus Palevol*, 2: 213–219.

Lourenço, W. R. 2004. Description of a further species of fossil scorpion in Baltic amber. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 3: 1886–1889.

Lourenço, W. R. 2009*a*. A new sub-fossil scorpion of the genus *Microcharmus* Lourenço from Malagasy copal (Scorpiones, Microcharmidae). *Boletín Sociedad Entomólogica Aragonesa*, 44: 135–137.

Lourenço, W. R. 2009*b*. A new species of *Tityus* C. L. Koch, 1836 (subgenus *Brazilotityus* Lourenço, 2006) from the Dominican amber (Scorpiones: Buthidae). *Euscorpius*, 83: 1–5.

Lourenço, W. R. 2012*a*. Further considerations on scorpions found in Baltic amber, with a description of a new species (Scorpiones: Buthidae). *Euscorpius*, 146: 1–7.

Lourenço, W. R. 2012*b*. About the scorpion fossils from the Cretaceous amber of Burmese (Burma) with the descriptions of a new family, genus and species. *Acta Biológica Paranaense, Curitiba*, 41: 75–87.

Lourenço, W. R. 2013*a*. A new species of *Tityus* C. L. Koch, 1836 (Scorpiones: Buthidae) from Dominican amber. *Euscorpius*, 156: 1–5.

Lourenço, W. R. 2013*b*. A new species of *Chaerilobuthus* Lourenço & Beigel, 2011 from Cretaceous Burmese amber (Scorpiones: Chaerilobuthidae). *Acta Biológica Paranaense, Curitiba*, 42: 1–5.

Lourenço, W. R. 2014. A new species of scorpion from Chiapas amber, Mexico (Scorpiones: Buthidae). *Revista Ibérica de Aracnología*, 24: 59–63.

Lourenço, W. R. 2015*a*. A new subfamily, genus and species of fossil scorpions from Cretaceous Burmese amber (Scorpiones: Palaeoeuscorpiidae). *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 457–464.

Lourenço, W. R. 2015*b*. Clarification of the familiar status of the genus *Palaeoburmesebuthus* Lourenço, 2002 from Cretaceous Burmese amber (Scorpiones: Archaeobuthidae: Palaeoburmesebuthinae). *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 465–475.

Lourenço, W. R. 2015*c*. New contributions tot he knowledge of Cretaceous Burmese amber scorpions: descriptions of two new species of *Betaburmesebuthus* Lourenço, 2015 (Scorpiones: Archaeobuthidae: Palaeoburmesebuthinae). *Revista Arachnologica Italiana*, 1(3): 27–36.

Lourenço, W. R. 2015*d*. An unusual new species of Chaerilobuthus Lourenco & Beigel, 2011 (Scorpiones: Cherilobuthidae) from the Cretaceous amber of Myanmar (Birmania). *Revista Aracnologica Italiana*, 1(5): 44–48.

Lourenço, W. R. 2016*a*. A preliminary synopsis on amber scorpions with special reference to Burmite species: an extraordinary development of our knowledge in only 20 years. *ZooKeys*, 600: 75–87.

Lourenço, W. R. 2016*b*. A new genus and three new species of scorpions from Cretaceous Burmese amber (Scorpiones: Chaerilobuthidae: Palaeoeuscorpiidae). *Arthropoda Selecta*, 25: 67–74.

Lourenço, W. R. 2018. A further new species of *Palaeoburmesebuthus* Lourenço, 2002 from Burmite (Scorpiones: Palaeoburmesebuthidae). *Revista Ibérica de Arachnología*, 32: 51–54.

Lourenço, W. R. & Beigel, A. 2011. A new scorpion fossil from the Cretaceous amber of Myanmar (Burma). New phylogenetic implications. *Comptes Rendus Palevol*, 10: 635–639.

Lourenço, W. R. & Beigel, A. 2015*a*. A new genus and species of Palaeoburmesebuthinae Lourenço, 2015 (Scorpiones: Archaeobuthidae) from Cretaceous amber of Burmese. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 476–480.

Lourenço, W. R. & Gall, J.-C. 2004. Fossil scorpions from the Buntsandstein (Early Triassic) of France. *Comptes Rendus Palevol*, 3: 369–378.

Lourenço, W. R. & Henderickx, H. 2012. Another new sub-fossil species of scorpion of the genus *Palaeogrosphus* Lourenço, 2000 from Malagasy copal (Scorpiones: Buthidae). *Euscorpius*, 137: 1−4.

Lourenço, W. R. & Rossi, A. 2017. Two more new species of Burmese amber scorpions of the family Palaeoburmesebuthidae Lourenço, 2015 (Scorpiones). *Rivista Arachnologica Italiana*, 3(13): 11–21.

Lourenço, W. R. & Velten, J. 2015. Another new species of *Chaerilobuthus* Lourenço & Beigel, 2011 (Scorpiones: Chaerilobuthidae) from the Cretaceous amber of Myanmar (Burma). *Rivista Arachnologica Italiana*, 1(5): 2–8.

Lourenço, W. R. & Velten, J. 2016. One more new species of *Betaburmesebuthus* Lourenço, 2015 (Scorpiones: Paleoburmesebuthinae) from Cretaceous burmite. *Rivista Arachnologica Italiana*, 2(6): 4–11.

Lourenço, W. R. & Velten, J. 2017. One more new genus and species of fossil scorpion from Burmese Cretaceous amber belonging to the family Palaeoburmesebuthidae (Scorpiones). *Rivista Arachnologica Italiana*, 3(13): 1–10.

Lourenço, W. R. & Weitschat, W. 1996. More than 120 years after its description, the enigmatic status of the genus of the Baltic amber scorpion "*Tityus eogenus*" Menge, 1869 can finally be clarified. *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 79: 183–188.

Lourenço, W. R. & Weitschat, W. 2000. New fossil scorpions from the Baltic amber – implications for Cenozoic biodiversity. *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 84: 247–260.

Lourenço, W. R. & Weitschat, W. 2001. Description of another fossil scorpion from Baltic amber with considerations on the evolutionary levels of Cenozoic Buthoidea. *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 85: 277–283.

Lourenço, W. R. & Weitschat, W. 2005*a*. A new genus and species of fossil scorpion from a different kind of Baltic amber (Scorpiones, Buthidae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 89, 183–188.

Lourenço, W. R. & Weitschat, W. 2005*b*. First sub-fossil scorpion of genus *Chactas* Gervais from Colombian copal (Scorpiones, Chactidae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 89: 179–182.

Lourenço, W. R. & Weitschat, W. 2009. A new species of *Palaeoananteris* Lourenço & Weitschat, 2001, fossil scorpion from Ukranian amber (Scorpiones, Buthidae). *Boletín Sociedad Entomológica Aragonesa*, 45: 231–235.

Lourenço, W. R., Henderickx, H. & Weitschat, W. 2005. A new genus and species of fossil scorpion from Baltic amber (Scorpiones, Buthidae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 89: 159–166.

Lucas, H. 1835. Sur une monographie du genre Thélyphone. *Magasin de Zoologie*, 5: Classe VIII, pls. 8–10.

Lucas, H. 1846. Histoire naturelle des Animaux articulés. *In Exploration scientifique de l'Algérie pendant les années 1840, 1841, 1842, publiée par ordre du Gouvernement et avec le concours d'une commission académique. Sciences physiques, Zoologie, 5 tomes, Paris, 1846–1850*. Vol. 1: 89–271.

Luxton, M. 1985. Cryptostigmata (Arachnida: Acari): a concise review. *Fauna of New Zealand*, 7: 1–112.

Luxton, M. 1988. A new mite superfamily (Acari: Cryptostigmata). *Zoological Journal of the Linnean Society*, 93: 71–91.

Lyubarsky, G. Y. & Perkovsky, E. E. 2012. The first Eocene species of the genus *Cryptophagus* (Coleoptera, Clavicornia, Cryptophagidae). *Vestnik zoologii*, 46: 36–40.

MacLeay, W. S. 1839. On some new forms of Arachnida. *Annals and Magazine of Natural History*, 2: 1–14.

Maddison, W.P. 2006. New lapsiine jumping spiders from Ecuador (Araneae: Salticidae). *Zootaxa*, 1255: 17–28.

Magowski, W. Ł. 1994. Discovery of the first representative of the mite subcohort Heterostigmata (Arachinida: Acari) in the Mesozoic Siberian amber. *Acarologia*, 35: 229–241.

Magowski, W. Ł. 1995. Fossil heterostigmatid mites in amber – 85 million year-old an arthropod mite Relationships. pp. 53–58. *In* Kropczynska, D., Boczek, J. & Tomczyk, A. (eds) *The Acari: Physiological and Ecological Aspects of Acari – Host Relationships.* Dabor, Warsaw, 698 pp.

Mąkol, J., Konikiewicz, M. & Klug, B. 2018. Next ones to fill the gap—first tanaupodids (Trombidiformes: Prostigmata, Tanaupodidae) from Baltic amber with notes on extant genera and species. *Systematic and Applied Acarology*, 23: 2129–2146.

Malz, H. & Poschmann, M. 1993. Erste Süßwasser-Limuliden (Arthropoda, Chelicerata) aus dem Rotliegenden der Saar-Nahe-Senke. *Osnabrücker naturwissenschafliche Mitteilungen*, 19: 21–24.

Mahnert, V. 1979. Pseudoskopione (Arachnida) aus dem Amazonas-Gebiet (Brasilien). *Revue suisse de Zoologie*, 86: 719–810.

Mahunka, S. 1970. Considerations of the systematics of the Tarsonemina and the description of new European taxa (Acari: Trombidiformes). *Acta Zoologica Academiae Scientiarum Hungaricae*, 16: 137–174.

Mahunka S. 1975. Neue und auf Insekten lebende Milben aus Australien und Neu-Guinea (Acari: Acarida, Tarsonemida). *Annales Historico-Naturales Musei Nationalis Hungarici*, 67: 317–325.

Mahunka, S. 1978. Schizoglyphidae fam. n. and new taxa of Acaridae and Anoetidae (Acari: Acarida). *Acta Zoologica Hungrica*, 24: 107-131.

Mahunka, S. 1986. A survey of the family Carabodidae C. L. Koch, 1836 (Acari: Oribatida). *Acta Zoologica Hungarica*, 32: 73–135.

Mahunka, S. 1987. Neue und interessante milben aus dem Genfer Museum LX. Oribatids from Sabah (East Malaysia). II. (Acari: Oribatida). *Revue suisse de Zoologie*, 94: 765–817.

Mahunka, S. 1990. A survey of the superfamily Euphthiracaroidea Jacot, 1930 (Acari: Oribatida). *Folia Entomologica Hungarica*, 51: 37–80.

Mahunka, S. 1993. Oribatids from Madagascar I: (Acari: Oribatida). New and interesting mites from the Geneva Museum. LXXVI. *Revue suisse de Zoologie*, 100: 289–315.

Mahunka, S. 1994. Oribatids from Madagascar II. (Acari: Oribatida). *Revue suisse de Zoologie*, 101: 47–88.

Mani, M. S. 1945. Descriptions of some fossil arthropods from India. *Indian Journal of Entomology*, 6: 61–64.

Märkel, K. 1964. Die Euphthiracaridae Jacot, 1930, und ihre Gattungen (Acari, Oribatei). *Zoologische Verhandelingen*, 67: 1–78.

Märkel, K. & Meyer, I. 1959. Zur Systematik der deutschen Euphthiracarini. *Zoologischer Anzeiger*, 163: 327–342.

Marshall, D. J., Lamsdell, J. C., Shpinev, E. & Braddy, S. J. 2014. A diverse chasmataspidid (Arthropoda: Chelicerata) fauna from the Early Devonian (Lochkovian) of Siberia. *Palaeontology*, 57, 631–655.

Martens, J. 1976. Genitalmorphologie, System und Phylogenie der Weberknechte (Arachnida: Opiliones). *Entomologica Germanica*, 3: 51–68.

Martens, J. 1988. Fissiphalliidae, a new family of South American laniatorean harvestmen (Arachnida: Opiliones). *Zeitschrift für zoologische Systematik und Evolutionsforschung*, 26: 114–127.

Martin, W. 1809. Petrificata Derbiensia 1.

Marusik, Y. M. & Penney, D. 2004. A survey of Baltic amber Theridiidae (Araneae) inclusions, with descriptions of six new species. *In* Logunov, D. V. & Penney, D (eds). European Arachnology 2003 (Proceedings of the 21st European Colloquium of Arachnology, St.-Petersburg, 4–9 August 2003). *Arthropoda Selecta*, Special Issue No. 1: 201–208.

Marusik, Y. M., Perkovsky, E. E., Eskov, K. Y. 2018. First records of spiders (Arachnida: Aranei) from Sakhalinian amber with description of a new species of the genus *Orchestina* Simon, 1890. *Far Eastern Entomologist*, 367: 1–9.

Marx, G. 1888. On a new and interesting spider. *Entomologica Americana*, 4: 160–162.

Marx, G. 1890*a*. Arachnida. *In* Howard, L. O. (ed.) Scientific results of the explorations by the U. S. Fish Commission Steamer Albatross. No. V. – Annotated catalogue of the insects collected in 1887–'88. – *Proceedings of the United States National Museum*, 12: 207–211.

Marx, G. 1890*b*. Catalogue of the described Araneae of temperate North America. *Proceedings of the United States National Museum*, 12: 497–594.

Matthew, G. F. 1888. On some remarkable organisms of the Silurian and Devonian rocks in Southern New Brunswick. *Transactions of the Royal Society of Canada*, 1888: 49–61.

Matthew, G. F. 1895. Organic remains of the Little River Group, No. IV. *Transactions of the Royal Society of Canada, 2nd Ser*., 1: 273–279.

McAlpine, J. F. & Martin, J. E. H. 1969. Canadian amber – a paleontological treasure chest. *Canadian Entomologist*, 101: 819–838.

McCook, H. C. 1888. A new fossil spider, *Eoatypus woodwardii*. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 1888: 200–202.

Meek, F. B. 1867. Notes on a new genus of fossil Crustacea. *Geological Magazine, Decade 4*, **xx**: 320–321.

Meek, F. B. & Worthen, A. H. 1865. Notice of some new types of organic remains from the Coal Measures of Illinois. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 17: 41–45.

Meek, F. B & Worthen, A. H. 1868*a*. Preliminary notice of a scorpion, a *Eurypterus*? and other fossils from the Coal Measures of Illinois and Iowa. *American Journal of Science and Arts, series 2*, 45: 25.

Meek, F. B. & Worthen, A. H. 1868*b*. Palaeontology of Illinois. *In Geological Survey of Illinois*, 3: 289–565.

Melander, A. L. 1903. Some additions to the Carboniferous terrestrial fauna of Illinois. *Journal of Geology*, 11: 178–198.

Melendez, B. 1971. Un novel Eurypteride du Westphalien des Asturies (NW Espagne). *In* Krefeld (ed.) *Septieme Congres de Stratigraphie et de Geologie du Carbonifere*, 3: 415–417.

Mello-Leitão, C. F. de 1932. Notas sobre as Micratheneas do Brasil. *Anais do Academia Brasileira dos Ciências*, 4: 73–97.

Mello-Leitão, C. F. de 1937. Distribution et Phylogénie des Faucheurs Sud-Américains. *Proceedings of the 12th International Congress of Zoology, Lisbon*, 2(5): 1217–1228.

Mello-Leitão, C. F. de 1940. Arañas de las islas Juan Fernandez, recogidas por el Señor R. Wagenknecht. *Revista Chilena de Historia Natural*, 44: 236–239.

Menge, A. 1854. Footnotes *in* Koch, C. L. & Berendt, G. C. Die im Bernstein befindlichen Myriapoden, Arachniden und Apteren der Vorwelt. *In* Berendt, G. C. *Die in Bernstein befindlichen organischen Reste der Vorwelt gesammelt in verbindung mit mehreren bearbeitetet und herausgegeben 1.* Berlin, Nicolai, 124 pp.

Menge, A. 1855. Ueber die Scheerenspinnen, Chernetidae. *Neueste Schriften der Naturforschenden Gesellschaft*, 5: 1–43.

Menge, A. 1856. Lebenszeichen vorweltlicher, im Bernstein eigeschlossener Thiere. *Programm der Petrischule zu Danzig*, 8: 32 pp.

Menge, A. 1866. Preussische Spinnen. Erste Abtheilung. *Schriften der Naturforschenden Gesellschaft in Danzig (Neue Folge)*, 2: 1–152.

Menge, A. 1868. Preussische Spinnen. II. Abtheilung. *Schriften der Naturforschenden Gesellschaft in Danzig (Neue Folge)*, 2: 153–218.

Menge, A. 1869. Ueber einen Scorpion und zwei Spinnen im Bernstein. *Schriften der Naturforschenden Gesellschaft in Danzig (Neue Folge)*, 2: 1–9.

Mesquita, M. V. 1996. *Cretaraneus matensnetoi* n.sp. (Araneoidea) da Formação Santana, Cretáceo Inferior da Bacia do Araripe. *Revista Universidade Guarulhos, Série Geociências*, 1(3): 24–31.

Miko, L. 2015. Oribatid mite fossils from pre-Quaternary sediments in Slovenian caves III. Two new species of *Dissorhina* (Oppiidae) from the Pliocene. *Acarologia*, 55: 449–457.

Miko, L. & Travé, J. 1996. Hungarobelbidae n.fam., with description of *Hungarobelba pyrenaica* n.sp. (Acarina, Oribatida). *Acarologia*, 37: 133–155.

Miko, L., Mourek, J., Meleg, I. N. & Moldovan, O. T. 2012. Oribatid mite fossils from pre-Quaternary sediments in Slovenian caves I. Two new genera and two new species of the family Oppiidae from the Early Pleistocene. *Acta Musei Nationalis Pragae, Series B, Historia Naturalis*, 68: 23–34.

Miko, L., Mourek, J., Meleg, I. N. & Moldovan, O. T. 2013. Oribatid mite fossils from pre-Quaternary sediments in Slovenian caves II. *Amiracarus pliocennatus* n.gen., n.sp. (Microzetidae) from Pliocene, with comments on the other species of the genus. *Zootaxa*, 3670, 557–578.

Miller, S. A. 1874. Notes and descriptions of Cincinnatian Group fossils. *Cincinnati Quarterly Journal of Science*, 1: 343–351.

Miller, S. A. & Gurley, W. F. E. 1896. New species of Echinodermata and a new crustacean from the Palaeozoic rocks. *Illinois State Museum Natural History Bulletin*, 10: 1–91.

Millot, J. 1947. Une araignée malgache énigmatique, *Gallieniella mygaloides* n. g., n. sp. *Bulletin du Muséum National d'Histoire Naturelle, 2e Série*, 19: 158–160.

Millot, J. 1948. Faits nouveaux concernant les *Archaea* [Aranéides]. *Mémoires de l'Institut Scientifque de Madagascar*, 1(A1): 3–14.

Mitov, P. G., Dunlop, J. A. & Penney, D. 2015. A new species of *Lacinius* in amber (Arachnida: Opiliones). *Fossil Record*, 18: 37–42.

Moberg, J. C. 1892. Om en nyupptäckt fauna i block af kambrisk sandsten, insamlade af Dr N.O. Holst. *Geologiska Föreningens i Stockholm Förhandlingar*, 14: 103–120.

Moore, J. I. 1923. A review of the present knowledge of fossil scorpions, with the description of a new species from the Pottsville Formation of Clay County, Indiana. *Proceedings of the Indiana Academy of Science*, 38: 125–134.

Moore, R. A., McKenzie, S. C. & Lieberman, B. S. 2007. A Carboniferous synziphosurine (Xiphosura) from the Bear Gulch Limestone, Montana, USA. *Palaeontology*, 50: 1013–1019.

Moore, R. A., Briggs, D. E. G., Braddy, S. J. & Shultz, J. W. 2011. Synziphosurines (Xiphosura: Chelicerata) from the Silurian of Iowa. *Journal of Paleontology*, 85: 83–91.

Moore, R. A., McKenzie, S. C., Braddy, S. J., Anderson, L. I., Mikulic, D. G. & Kluessendorf, J. 2005. A new synziphosurine (Chelicerata: Xiphosura) from the Late Llandovery (Silurian) Waukesha Lagerstätte, Wisconsin, USA. *Journal of Paleontology*, 79: 242–250.

Moran, R. J. 1986. The Sternodidae (Araneae, Araneomorpha), a new family of spiders from eastern Australia. *Bulletin of the British Arachnological Society*, 7: 87–96.

Moraza, M. L. & Lindquist, E. E. 1999. Coprozerconidae, a new family of zerconoid mites from North America (Acari: Mesostigmata: Zerconoidea). *Acarologia*, 39: 291–313.

Müller, O. F. 1785. *Entomastraca, seu, Insecta testacea quae in aquis Daniae et Norvegiae reperit, descripsit et iconibus illustravit*. Hauniae, Thiele.

Müller, A. H. 1957. Ein Arachnidenrest (*Brachylycosa* ? *manebachensis* n. sp.) aus dem Unteren Rotliegenden (Manebacher Schichten) von Thüringen. *Geologie*, 6: 95–98.

Müller, S. P., Dunlop, J. A. Kotthoff, U., Hammel, J. U. & Harms, D. 2019. The oldest short-tailed whipscorpion (Schizomida): a new genus and species from the Upper Cretcaeous amber of northern Myanmar. *Cretaceous Research*, 106: 104227.

Münster, G. Graf zu 1839. Die Rhyncholiten des Muschelkalks mit ihrem Fortsätzen. *In* Münster, G. Graf zu (ed.) *Beiträge zur Petrefacten-Kunde 1*: 48–51.

Münster, G. Graf zu 1840. Über die fossilen Arten *Limulus* in den lithographischen Schiefern von Bayern. *In* Münster, G. Graf zu (ed.) *Beiträge zur Petrefacten-Kunde 3*: 26–27.

Murdoch, J.B. 1893. Proceedings for Session 1890–91. *Transactions of the Geological Society of Glasgow*, 9: 414–422.

Murray, A. 1877. *Economic Entomology, Aptera*. South Kensington Museum Handbooks, 433 pp.

Nalepa, A. 1898. Eriophyidae (Phytoptidae). *In Das Tierreich. Eine Zusammenstellung und Kennzeichnung der rezenten Tierformen. 4. Lieferung. Acarina*. Deutsche Zoologische Gesellschaft, 4: 72 pp.

Naugolnykh, S. V. 2017. Lower Kungarian shallow-water lagoon biota of Middle Cis-Urals, Russia: towards paleoecological reconstruction. *Global Geology*, 20: 1–13.

Nicolet, H. 1855. Histoire naturelle des Acariens qui se trouvent aux environs de Paris. *Archives de Museum Nationale d'Histoire Naturelle de Paris*, 7: 381–482.

Niedbała, W. 1984. Mesoplophoridea (Acari, Oribatida). Changement du système et redescription d'espèces-types. *Bulletin of the Polish Academy of Sciences, Biological Sciences*, 32: 137–155.

Niedbała, W. 1986. Système des Phthiracaroidea (Oribatida, Euptyctima). *Acarologia*, 27: 61–84.

Nieszkowski, J. 1859. Zusatze zur Monographie der Trilobiten der Ostseeprovinzen, nebst der Beschriebung einiger neuen obersilurischen Crustaceen. *Archiv für die Naturkunde Liv.-, Ehst.- und Kurlands (Ser. 1)*, 1: 345–384.

Nindel, F. 1955. Die tierischen Reste aus dem Karbon von Karl-Marx-Stadt und Hainichen i.S. *Geologie*, 4: 673–694.

Nishikawa, Y. 1974. [Amber spiders from Mizunami, Japan.] *Bulletin of the Mizunami Fossil Museum*, 1: 401–406. [in Japanese with English summary]

Norton, R. A. 1975. Elliptochthoniidae, a New Mite Family (Acarina: Oribatei) from Mineral Soil in California. *Journal of the New York Entomological Society*, 83: 209–216.

Norton, R. A. 2006. First record of *Collohmannia* (*C. schusteri* n. sp.) and *Hermannia* (*H. sellnicki* n. sp.) from Baltic amber, with notes on Sellnick's genera of fossil oribatid mites (Acari: Oribatida). *Acarologia*, 46: 111–125.

Norton, R. A. & Metz, L. 1980. Nehypochthoniidae (Acari: Oribatei), a new family from the southeastern United States. *Annals of the Entomological Society of America*, 73: 54–62.

Norton, R. A., Bonamo, P. N., Grierson, J. D. & Shear, W. A. 1988. Oribatid mite fossils from a terrestrial Devonian deposit near Gilboa, New York. *Journal of Paleontology*, 62: 259–269.

Novojilov, N. J. 1959. Mérostomes du Dévonian inférieur et moyen de Sibérie. *Annales de la Société Géologique du Nord*, 78: 241–258.

Novojilov, N. & Størmer, L. 1963. A new scorpion from the Upper Carboniferous of Siberia. *Norsk Geologisk Tidsskrift* 43: 83–87.

O'Connell, M. 1916. The habitat of the Eurypterida. *Bulletin of the Buffalo Society of Natural Sciences*, 11: 1–278.

Olivier, P. A. S. & Theron, P. D.. 2000. Pentapalpidae, a new family of eupodoid mites (Prostigmata:Eupodoidea) from South Africa. *Acarologia*, 40: 385–392.

Ono, H. 1981. First record of a crab spider (Thomisidae) from Dominican amber (amber collection Stuttgart : Arachnida, Araneae). *Stuttgarter Beitrage zur Naturkunde (B)*, 73: 1–13.

Opluštil, S. 1985. New findings of Arachnida from the Bohemian Upper Carboniferous. *Věstník Ústředniho ústavu geologického*, 60: 35–42.

Opluštil, S. 1986. *Promygale janae* sp. n., the new anthracomartid (Arachnida) from the Upper Carboniferous of central Bohemia. *Věstník Ústředniho ústavu geologického*, 61: 287–292.

Oppenheim, P. 1887–1888. Die Insectenwelt des lithographischen Schiefers in Bayern. *Palaeontographica*, 34: 215–247.

Orr, P. J., Siveter, D. J., Briggs, D. E. G., Siveter, D. J. & Sutton, M. D. 2000. A new arthropod from the Silurian Konservat-Lagerstätte of Herefordshire, UK. *Proceedings of the Royal Society B*, 267: 1497–1504.

Oudemans, A. C. 1902. Classificatie der Acari. *Tijdschrift voor Entomologie*, 45: 50–64.

Oudemans, A. C. 1909. Über die bis jetzt genauer bekannten Thrombidium-larven und über eine neue Klassifikation der Prostigmata. *Tijdschrift voor Entomologie*, 52: 19–61.

Oudemans, A. C. 1916. Acarologische Aanteekeningen LX. *Entomologische berichten*, 4: 308–316.

Oudemans, A. C. 1923. Studie over de sedert 1977 ontworpen system der Acari; nieuwe classificatie; phylogenerische beschowingen. *Tijdschrift voor Entomologie*, 66: 49–85.

Oudemans, A.C. 1937. Kritisch historich overzicht der acarologie door Dr. A. C. Oudemans. Pp. 2737–3379 In Derde Gedeelte 1805–1850, Band G, Algemeen register. E.J. Brill, Leiden.

Özdikmen, H. 2007. Nomenclatural changes for seven preoccupied spider genera (Arachnida: Araneae). *Munis Entomology & Zoology*, 2: 137–142.

Packard, A. S. 1885. Types of Carboniferous Xiphosura new to North America. *American Naturalist*, 1885: 291–294.

Packard, A. S. 1886. On the Carboniferous xiphosurous fauna of North America. *Memoirs of the National Academy of Sciences*, 3: 143–157.

Page, D. 1856. *Advanced textbook of geology.* William Blackwood and Sons, Edinburgh, 326 pp.

Page, D. 1859. *Advanced textbook of geology, 2nd edn.* William Blackwood and Sons, London, **xx** pp.

Palmer, A. R. 1957. Miocene arthropods from the Mojave Desert California. *Geological Survey Professional Paper*, 294-G: 237–280.

Pampaloni, L. 1902. I resti organici nel disodile di Melilli in Sicilia. *Palaeontographica Italica*, 8: 121–130.

Panesar, A. R. 2004. Evolution in water mites (Hydrachnellae, Actinedidida, Acari). A revision of the Anisitsiellidae Koenike, 1910. *Bonner Zoologische Monographien*, 52: 1–144.

Park, T.-y,. S., Nam, K.-s. & Selden, P. A. 2019. A diverse spider (Araneae) fauna from the Jinju Formation, Cretcaeous (Albian) of Korea. *Journal of Systematic Paleontology*, 17: 1271–1297.

Paschoal, A. D. 1989d. Description of *Nooliodes* gen. n. and Nooliodidae fam. n. (Acari, Oribatei) from Madagascar. *Revista Brasileira de Zoologia*, 6:179–182.

Patrick, R. R. 1989. A new phalangiotarbid (Arachnida) from the McLeansboro Group (Pennsylvanian) of Indiana. *Journal of Paleontology*, 63: 327–331.

Peach, R. N. 1882. Further researches among Crustacea and Arachnida. *Transactions of the Royal Society of Edinburgh*, 30: 511–529.

Peach, R. N. 1883. A new species of fossil scorpions from the Carboniferous rocks of Scotland and the English borders, with a review of the genera *Eoscorpius* and *Mazonia* of Messrs. Meek and Worthen. *Transactions of the Royal Society of Edinburgh*, 30: 397–412.

Peach, R. N. 1888. On a new eurypterid from the Upper Coal-measures of Radstock, Somersetshire. *Proceedings of the Royal Physical Society, Edinburgh*, 9: 438–445.

Peckham, G. W. & Peckham, E. G. 1892. Ant-like spiders of the Family Attidae. *Occasional Papers of the Natural History Society of Wisconsin*, 2(1): 1–83.

Peckham, G. W. & Wheeler, W. H. 1889. Spiders of the subfamily Lyssomanae. *Transactions of the Wisconsin Academy of Science, Arts and Letters*, 7: 222–256.

Peñalver, E., Arillo, A., Delclòs, X., Peris, D., Grimaldi, D. A., Anderson, S. R., Nascimbene, P. C., Pérez-de la Fuente, R. 2017. Ticks parasitized feathered dinosurs as revealed by Cretaceous amber assemblages. *Nature Communications*, 8: 1924.

Penney, D. 2000. Miocene spiders in Dominican amber (Oonopidae, Mysmenidae). *Palaeontology*, 43: 343–357.

Penney, D. 2001. Advances in the taxonomy of spiders in Miocene amber from the Dominican Repubic (Arthropoda: Araneae). *Palaeontology*, 44: 987–1009.

Penney, D. 2002. Spiders in Upper Cretaceous amber from New Jersey (Arthropoda: Araneae). *Palaeontology*, 45: 709–724.

Penney, D. 2003*a*. *Afrarchaea grimaldii*, a new species of Archaeidae (Araneae) in Cretaceous Burmese amber. *Journal of Arachnology*, 31: 122–130.

Penney, D. 2003*b*. A new deinopid spider from Cretaceous Lebanese amber. *Acta Palaeontologica Polonica*, 48: 569–574.

Penney, D. 2004*a*. New spiders in Upper Cretaceous amber from New Jersey in the American Museum of Natural History (Arthropoda: Araneae). *Palaeontology*, 47: 367–375.

Penney, D. 2004*b*. Cretaceous Canadian amber spider and the palpimanoidean nature of lagonomegopids. *Acta Palaeontologica Polonica*, 49: 579–584.

Penney, D. 2004*c*. A new genus and species of Pisauridae (Araneae) in Cretaceous Burmese amber. *Journal of Systematic Palaeontology*, 2: 141–145.

Penney, D. 2005*a*. First fossil Filistatidae: a new species of *Misionella* in Miocene amber from the Dominican republic. *Journal of Arachnology*, 33: 93–100.

Penney, D. 2005*b*. The fossil spider family Lagonomegopidae in Cretaceous ambers with descriptions of a new genus and species from Myanmar. *Journal of Arachnology*, 33: 439–444.

Penney, D. 2005*c*. First Carribean *Floricomus* (Araneae: Linyphiidae), a new fossil species in Miocene Dominican Republic amber. A new synonymy fro the extant North American fauna. *Geologica Acta*, 3: 59–64.

Penney, D. 2005*d*. An annotated systematic catalogue, including synonymies and transfers, of Miocene Dominican Republic amber spiders described up until 2005. *Revista Ibérica de Aracnología*, 12: 25–52.

Penney, D. 2006*a*. Fossil oonopid spiders in Cretaceous ambers from Canada and Burmese. *Palaeontology*, 49: 229–235.

Penney, D. 2006*b*. The oldest lagonomegopid spider, a new species in Lower Cretaceous amber from Álava, Spain. *Geologica Acta*, 4: 377–382.

Penney, D. 2007*a*. The oldest fossil pholcid and selenopid spiders (Araneae) in lowermost Eocene amber from the Paris Basin France. *Journal of Arachnology*, 34: 592–598.

Penney, D. 2007*b*. A new fossil oonopid spider in lowermost Eocene amber from the Paris Basin, with comments on the fossil spider assemblage. *African Invertebrates*, 48: 71–75.

Penney, D. 2009. A new spider family record for Hispaniola – a new species of *Plectreurys* (Araneae: Plectreuridae) in Miocene Dominican amber. *Zootaxa*, 2144: 65–68.

Penney, D. 2010. Dominican amber. 22–41. *In* Penney, D. (ed.). *Biodiversity of fossils in amber from the major world deposits*. Siri Scientific Press, Manchester, UK, 304 pp.

Penney, D. 2011. Grandoculidae: a new fossil spider family from the Upper Cretaceous of Canada. *Bulletin of the British arachnological Society*, 15: 179–180.

Penney, D. 2014. A fossil ray spider (Araneae: Theridiosomatidae) in Cretaceous amber from Vendée, France. *Paleontological Contributions*, 10B: 1–8.

Penney, D. & Ortuño, V. N. 2006. Oldest true orb-weaving spider (Araneae: Araneidae). *Biology Letters*, 2: 447–450.

Penney, D. & Selden, P. A. 2002. The oldest linyphiid spider in Lower Cretaceous Lebanese amber (Araneae, Linyphiidae, Linyphiinae). *Journal of Arachnology*, 30: 487–493.

Penney, D. & Selden, P. A. 2006. First fossil Huttoniidae (Arthropoda: Chelicerata: Araneae) in late Cretaceous Canadian amber. *Cretaceous Research*, 27: 442–446.

Penney, D., Dierick, M., Cnudde, V., Masschaele, B., Vlassenbroeck, J., Hoorebeke, L. van & Jacobs, P. 2007. First fossil Micropholcommatidae (Araneae), imaged in Eocene Paris amber using X-Ray Computed Tomography. *Zootaxa*, 1623: 47–53.

Penney, D., Green, D. I., Tichner, S. B., Titchner, B. G., Brown, T. A., Preziosi, R. F. 2012*c*. An unusual palaeobiocoenosis of subfossil spiders in Colombian copal. *Bulletin of the British Arachnological Society*, 15: 241–244.

Penney, D., McNeil, A., Green D. I., Bradley, R., Marusik, Y. M., Withers, P. J. & Preziosi, R. F. 2011. A new species of anapid spider (Araneae: Araneoidea, Anapidae) in Eocene Baltic amber, imaged using phase contrast X-ray computed micro-tomography. *Zootaxa*, 2742: 60–66.

Penney, D., McNeil, A., Green D. I., Bradley, R., Withers, P. J. & Preziosi, R. F. 2012*a*. The oldest fossil pirate spider (Araneae: Mimetidae), in uppermost Eocene Indian amber, imaged using X-ray computed tomography. *Bulletin of the British Arachnological Society*, 15: 299–302.

Penney, D., Green D. I., McNeil, A., Bradley, R., Marusik, Y. M., Withers, P. J. & Preziosi, R. F. 2012*b*. A new species of *Craspedisia* (Araneae: Theridiidae) in Miocene Dominican amber, imaged using X-ray computed tomography. Paleontological Journal 46: 583–588. [Translation of Russian original]

Pérez, d´A.V. 1988. Un oribatido del Eoceno (Terciario). Primar acaro fosil de Chile (Arachnida: Acari: Oribatida). *Revista Chilena de Entomologia*, 16: 23–24.

Pérez-de la Fuente, R., Saupe, E. E. & Selden, P. A. 2013. New lagonomegopid spiders (Araneae: †Lagonomegopidae) from Early Cretacous Spanish amber. *Journal of Systematic Paleontology*, 11: 531–553.

Pérez González, A. & Kury A. 2007. Kimulidae. *In* Pinto da Rocha, R., Machado, G. & Giribet, G. (eds). *Harvestmen. The Biology of Opiliones*. Harvard University Press, Cambridge MA, pp. 207–209.

Perkovsky, E. E., Eskov, K. Y. & Marusik, Y. M. 2018. First record of Atypidae (Araneae) in Rovno amber. *Acta Arachnologica*, 67: 13–17.

Perkovsky, E. E., Zosimovich, V. Y. & Vlaskin, A. P. 2010. Rovno amber. 116–136. *In* Penney, D. (ed.). *Biodiversity of fossils in amber from the major world deposits*. Siri Scientific Press, Manchester, UK, 304 pp.

Perkovsky, E. E., Rasnitsyn, A. P., Vlaskin, A. P., Taraschuk, M. V. 2007. A comparative analysis of the Baltic and Rovno amber arthropod faunas: representative samples. *African Invertebrates*, 48:229–245

Perry, M. L. 1995. Preliminary description of a new fossil scorpion from the middle Eocene Green River Formation, Rio Blanco County, Colorado. *In* Dayvault, R. D. & Averett, W. R. (eds). *The Green River Formation in Piceance Creek and Estern Unita Basins Field Trip*. Grand Junction Geological Society, Grand Junction Colorado, pp. 131–133.

Peters, W. 1861. (Ueber eine neue Eintheilung der Skorpione und ueber die von ihm in Mossambique gesammelten Arten von Skorpionen). *Monatsberichte der Königlichen Preussischen Akademie der Wissenschaft zu Berlin*, 1861: 507–516.

Petrunkevitch, A. I. 1913. A monograph of the terrestrial Palaeozoic Arachnida of North America. *Transactions of the Connecticut Academy of Arts and Sciences*, 18: 1–137.

Petrunkevitch, A. I. 1922. Tertiary spiders and opilionids of North America. *Transactions of the Connecticut Academy of Arts and Sciences*, 25: 211–279.

Petrunkevitch, A. I. 1923. On families of spiders. *Annals of the New York Academy of Science*, 29: 145–180.

Petrunkevitch, A. I. 1928. Systema Aranearum. *Transactions of the Connecticut Academy of Arts and Sciences*, 29: 1–270.

Petrunkevitch, A. I. 1942. A study of amber spiders. *Transactions of the Connecticut Academy of Arts and Sciences*, 34: 119–464.

Petrunkevitch, A. I. 1945*a*. Palaeozoic Arachnida. An inquiry into their evolutionary trends. *Scientific Papers, Illinois State Museum*, 3(2): 1–76.

Petrunkevitch, A. I. 1945*b*. *Calcitro fisheri*. A new fossil arachnid. *American Journal of Science*, 243: 320–329.

Petrunkevitch, A. I. 1946. Fossil spiders in the collection of the American Museum of Natural History. *American Museum Novitates*, 1328: 1–36.

Petrunkevitch, A. I. 1949. A study of Palaeozoic Arachnida. *Transactions of the Connecticut Academy of Arts and Sciences*, 37: 69–315.

Petrunkevitch, A. I. 1950. Baltic amber spiders in the Museum of Comparative Zoology. *Bulletin of the Museum of Comparative Zoology*, 103: 257–337.

Petrunkevitch, A. I. 1953. Palaeozoic and Mesozoic Arachnida of Europe. *Memoirs of the Geological Society of America*, 53: 1–128.

Petrunkevitch, A. I. 1955*a*. Arachnida. 42–162. *In* Moore, R. C. (ed.) *Treatise on invertebrate paleontology, Part P, Arthropoda 2*. Geological Society of America, Boulder, and University of Kansas Press, Lawrence, xvii + 181 pp.

Petrunkevitch, A. I. 1955*b*. *Trigonotarbus arnoldi*, a new species of fossil arachnid from Southern France. *Journal of Paleontology*, 29: 475–477.

Petrunkevitch, A. I. 1958. Amber spiders in European collections. *Transactions of the Connecticut Academy of Arts and Sciences*, 41: 97–400.

Petrunkevitch, A. I. 1963. Chiapas amber spiders. *University of California Publications in Entomology*, 31: 1–40.

Petrunkevitch, A. I. 1971. Chiapas amber spiders, II. *University of California Publications in Entomology*, 63: 1–44.

Piffl, E. 1972. Zur Systematik der Oribatiden (Acari). (Neue Oribatiden aus Nepal, Costa Rica und Brasilien ergeben eine neue Familie der Unduloribatidae und erweitern die Polypterozetidae um die Gattungen *Podopterotegaeus*, *Nodocepheus*, *Eremaeozetes* und *Tumerozetes*. *Khumbu Himal*, 4: 269–314.

Pickett, J. W. 1984. A new freshwater limuloid from the middle Triassic of New South Wales. *Palaeontology*, 27: 609–621.

Pickett, J. W. 1993. A Late Devonian xiphosuran from near Parkes, New South Wales. *Memoirs of the Association of Australian Palaeontologists*, 15: 279–287.

Pickford, M. 2000. Fossil spider's webs from the Namib Desert and the antiquity of *Seothyra* (Araneae, Eresidae). *Annales de Paléontologie*, 86: 147–155.

Pictet, F. J. 1846. *Traite élémentaire de paléontologie. Vol. 4*. Paris, 458 pp.

Pierce, W. D. 1945. A fossil whiptail scorpion from Cabrillo Beach. *Bulletin of the Southern California Academy of Sciences*, 44: 7–8.

Pierce, W. D. 1950. Fossil arthropods from onyx-marble. *Bulletin of the Southern Californian Academy of Sciences*, 49: 101–104.

Pierce, W. D. 1951. Fossil arthropods from onyx-marble. *Bulletin of the Southern Californian Academy of Sciences*, 50: 34–49.

Pinto, I. D. & Hünicken, M. A. 1980. *Gondwanarachne* a new genus of the order Trigonotarbida (Arachnida) from Argentina. *Boletin de la Academia Nacional de Ciencias Cordoba*, 53: 307–315.

Pirozhnikov, L. P. 1957. [Remains of Gigantostraca from the the series of Matakara (Devonian of North Minusinsk Depresssion).] *Annuaire de la Société paléontologique de Russie*, 16: 207–213. [in Russian]

Platnick, N. I. 1977. The hypochiloid spiders: a cladistic analysis, with notes on the Atypoidea (Arachnida, Araneae). *American Museum Novitates*, 2627, 1–23.

Platnick, N. I. 1989. *Advances in Spider Taxonomy 1981-1987: A Supplement to Brignoli's A Catalogue of the Araneae described between 1940 and 1981*. Manchester University Press, 673 pp.

Pocock, R. I. 1892. *Liphistius* and its bearing upon the classification of spiders. *Annals and Magazine of Natural History, series 6*, 10: 306–314.

Pocock, R. I. 1893. Notes on the classification of scorpions, followed by some observations on synonymy, with descriptions of new genera and species. *Annals and Magazine of Natural History, series 6*, 12: 303–330.

Pocock, R. I. 1895. Description of two new spiders obtained by Messrs J. J. Quelch and F. MacConnel on the summit of Mount Roraima, in Demerara; with a note upon the systematic position of the genus *Desis*. *Annals and Magazine of Natural History, series 6*, 16: 139–143.

Pocock, R. I. 1897. On the genera and species of tropical African Arachnida of the order Solifugae, with notes upon the taxonomy and habits of the group. *Annals and Magazine of Natural History, series 6*, 20: 249–272.

Pocock, R. I. 1898. The Arachnida from the Province of Natal, South Africa, contained in the collection of the British Museum. *Annals and Magazine of Natural History, series 7*, 2: 197–226.

Pocock, R. I. 1901. The Scottish Silurian scorpions. *Quarterly Journal of Microscopical Science*, (2) 44: 291–311.

Pocock, R. I. 1902. *Eophrynus* and allied Carboniferous Arachnida. *Geological Magazine, Decade 4*, 9: 439–448, 487–493.

Pocock, R. I. 1903*a*. A new Carboniferous arachnid. *Geological Magazine, Decade 4*, 10: 247–251.

Pocock, R. I. 1903*b*. Further remarks upon the Carboniferous arachnid *Anthracosiro*, with the description of a second species of the genus. *Geological Magazine, Decade 4*, 10: 405–408.

Pocock, R. I. 1903*c*. On the geographical distribution of spiders of the order Mygalomorphae. *Proceedings of the Zoological Society of London*, 1903: 340–368.

Pocock, R. I. 1911. A monograph of the terrestrial Carboniferous Arachnida of Great Britain. *Monographs of the Palaeontographical Society*, 64: 1–84.

Pohlman, J. 1882. Additional Notes on the Fauna of the Water-Lime Group near Buffalo. *Bulletin of the Buffalo Society of Natural Sciences*, 4(2): 41–47.

Poinar Jr., J. O. 1985. Fossil evidence of insect parasitism by mites. *International Journal of Acarology*, 11: 37–38.

Poinar Jr., G.O. 1988. Hair in Dominican amber: evidence for Tertiary land mammals in the Antilles. *Experientia*, 44: 88–89.

Poinar Jr., G. O. 1995. First fossil soft tick, *Ornithodoros antiquus* n. sp. (Acari: Argasidae) in Dominican amber with evidence of their mammalian host. *Experimentia Basel*, 51: 584–587.

Poinar Jr., G. [O.] 2008. *Palaeosiro burmanicum* n. gen., n. sp., a fossil Cyphophthalmi (Arachnida: Opiliones: Sironidae) in Early Cretaceous Burmese amber. *In* Makarov, S. E. & Dimitrievi ć, R. N. (eds) *Advances in Arachnology and Developmental Biology. Papers dedicated to Prof. Dr. Božidar Ćurčić.* Inst. Zool., Belgrade; BAS, Sofia; Fac. Life Sci., Vienna; SASA, Belgrade & UNESCO MAB Serbia. Vienna — Belgrade — Sofia, Monographs, 12: 267–274 .

Poinar Jr., G. O. 2015. *Pulchellaranea pedunculata* n. gen. n. sp. (Araneae: Araneidae), a new genus of spiders with a review of araneid spiders in Cenozoic Dominican amber. *Historical Biology*, 27: 103–108.

Poinar Jr., G. O. & Brown, A. E. 2003. A new genus of hard ticks in Cretaceous Burmese amber (Acari: Ixodida: Ixodidae). *Systematic Parasitology*, 54: 199–205.

Poinar Jr., G. O. & Brown, A. E. 2004. A new whip spider (Arachnida: Amblypygi), *Phrynus mexicana*, is described from Mexican amber. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 3: 1881–1885.

Poinar Jr., G. O. & Buckley, R. 2008. *Compluriscutula vetulum* (Acari: Ixodida: Ixodidae), a new genus and species of hard tick from Lower Cretaceous Burmese amber. *Proceedings of the Entomological Society of Washington*, 110: 445–450.

Poinar Jr., G. O. & Buckley, R. 2012. Predatory behaviour of the social orb-weaver spider, *Geratonephila burmanica* n. gen., n. sp. (Araneae: Nephilidae) with its wasp prey, *Cascoscelio incassus* n. gen., n. sp. (Hymenoptera: Platygastridae) in Early Cretaceous Burmese amber. *Historical Biology*, 24: 519–525.

Poinar Jr., G. O. & Santiago-Blay, J. A. 1989. A fossil solpugid, *Haplodontus proterus*, new genus, new species (Arachnida: Solpugida) from Dominican amber. *Journal of the New York Entomological Society*, 97: 125–132.

Poinar Jr., G. O., Krantz, G. W., Boucot, A. J. & Pike, T. M. 1997. A unique Mesozoic parasitic association. *Naturwissenschaften*, 84: 321–322.

Ponomarenko, A. G. 1985. King crabs and eurypterids from the Permian and Mesozoic of the USSR. *Paleontological Journal*, 19: 100–104. [Translation of *Paleontologiceskij Žurnal*, 1985: 115–117.]

Poschmann, M. 2009. Ein fossiler Skorpion aus der Oberkarbon (Westfalium C) des Saar-Nahe-Beckens (SW Deutschland). *Mitteilungen der Pollichia*, 94: 5–10.

Poschmann, M. & Dunlop, J. A. 2006. A new sea spider (Arthropoda: Pycnogonida) with a flagelliform telson from the Lower Devonian Hunsrück Slate, Germany. *Palaeontology*, 49: 983–989.

Poschmann, M. & Dunlop, J. A. 2010. Trigonotarbid arachnids from the Lower Devonian (Lower Emsian) of Alken an der Mosel (Rhineland-Palatinate, SW Germany). *Paläontologische Zeitschrift*, 84: 467–484.

Poschmann, M. & Dunlop, J. A. 2011. Trigonotarbid arachnids from the Lower Devonian (Siegenian) of Bürdenbach (Lahrbach Valley, Westerwald area, Rhenish Slate Mountains, Germany). *Paläontologische Zeitschrift*, 85: 433–447.

Poschmann, M. & Dunlop, J. A. 2012. Reassessing *Devonotarbus*, a phalagiotarbid arachnid from the Lower Devonian (Siegenian and Emsian) of the Rheinisches Schiefergebirge (SW Germany). *Paläontologisches Zeitschrift*, 86: 377–387.

Poschmann, M. & Francke, C. 2006. Arthropods and trace fossils from the Lower Devonian (Emsian) of the West Eifel region/ Germany and the Grand Duchy of Luxembourg. *Ferrantia*, 46: 97–115.

Poschmann, M. & Tetlie, O. E. 2004. On the Emsian (Early Devonian) arthropods of the Rhenish Slate Mountains: 4. The eurypterids *Alkenopterus* and *Vinetopterus* n. gen. (Arthropoda: Chelicerata). *Senckenbergiana lethaea*, 84: 173–193.

Poschmann, M., Anderson, L. I. & Dunlop, J. A. 2005. Chelicerate arthropods, including the oldest phalangiotarbid arachnid, from the Early Devonian (Siegenian) of the Rhenish Massif, Germany. *Journal of Paleontology*, 79: 110–124.

Poschmann, M., Dunlop, J. A., Bértoux, O. & Galtier, J. 2016. Carboniferous arachnids from the Graissessac Basin, Central Massif, France. *Paläontologische Zeitschrift*, 90: 33–48.

Poschmann, M., Dunlop, J. A., Kamenz, C. & Scholtz, G. 2008. The Lower Devonian scorpion *Waeringoscorpio* and the respiratory nature of ist filamentous structures, with a description of a new species from the Westerwald area, Germany. *Paläontologische Zeitschrift*, 82: 418–436.

Prach, F. K. 1860. Život Pavoukŭ pravých či prědoueích (Araneae). *Živa*, 8: 80–93.

Presl, J. S. 1822. Additamenta ad faunam protogaeam, sistens descriptions aliquot animalium in succino inclusorum. *In* Presl, J. S. & Presl, C. B. (eds). *Deliciae Pragenses Historiam Naturalem Spectantes*. *Tome I.* Calvae, Pragae, viii + 244 pp.

Prestwich, J. 1840. Memoir on the geology of Coalbrook Dale. *Transactions of the Geological Society of London* 5: 413–495.

Příbyl, A. 1952. On the genus *Adelophthalmus* Jordan and Meyer, 1854 (Euryperida) and its representatives in the Upper Carboniferous of Czechoslovakia. *Bulletin International de l'Académie tchéque des Sciences*, 53: 63–70.

Příbyl, A. 1958. Some new Carboniferous arachnids from the Ostrava-Karviná coal district. *Časopis pro Mineralogii a Geologii*, 3: 425–434.

Příbyl, A. 1967. *Moravurus* gen.n. eine neue Xiphosurida Gattung aus dem mahrisch-schlesischen Oberkarbon. *Časopis pro Mineralogii a Geologii*, 12: 457–460.

Pritchard A. E. 1956. A new superfamily of trombidiform mites with the description of a new family, genus and species (Acarina: Iolinoidea: Iolinidae: *Iolina nana). Annals of the Entomological Society of America*, 49: 204–206.

Protescu, O. 1937. Etude géologique et paléobiologique de l'ambre roumain. *Bulletin de la Société române Géologique*, 3: 65–110.

Prószyński, J. & Żabka, M. 1980. Remarks on Oligocene amber spiders of the family Salticidae. *Acta Palaeontologica Polonica*, 25: 213–223.

Pruvost, P. 1912. Note sur les Araignées du terrain houiller du Nord de la France. *Annales de la Société Géologique du Nord*, 41: 85–100.

Pruvost, P. 1919. *Introduction a l'étude du terrain houiller du Nord et du Pas-de-Calais: La faune continentale du terrain houiller de la France.* pp. 339–364. *Classe des Arachnides*. Thèse Université de Lille, Lille.

Pruvost, P. 1922. Les arachnides fossiles du Houiller de Belgique. *Annales de la Société Scientifique de Bruxelles*, 41: 349–355.

Pruvost, P. 1926. Description de deux fossiles du terrain houiller de Noeux (*Anthracosiro corsini*, nov. sp. et *Fayolia sterzeli* Weiss). *Annales de la Société Géologique du Nord*, 51: 144–149.

Pruvost, P. 1930. La Faune continentale du terrain houiller de la Belgique. Arachnides. *Mémoires du Musée royal d'Histoiré naturelle de Belgique*, 44: 206–217.

Pruvost, P. 1939. *Euypterus* (*Anthraconectes*) *corneti* du Westphalien A du couchant de Mons. *Annales de la Société Scientifique de Bruxelles*, 59: 56–59.

Qin, T. K. & Halliday, R. B. 1997. Eriorhynchidae, a new family of Prostigmata (Acarina), with a cladistic analysis of eupodoid species of Australia and New Zealand. *Systematic Entomology*, 22: 151–171.

Quintero Jr., D. 1996. Revision de la clasification de Amblypygidos pulvanados: creacion de subordenes, una neuva familia y un nuevo genero con tres nuevas especies (Arachnida: Amblypygi). 203–212. *In* Eberhardt, W. G., Lubin, Y. D. & Robinson, B. C. (eds). *Proceedings of the Ninth International Congress of Arachnology, Panama 1983.* Smithsonian Institution Press, Washington, DC, xx pp.

Racheboeuf, P. R. 1992. *Valloisella lievinensis* n. g. n. sp.: nouveau Xiphosure carbonifère du nord de la France. *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 1992(6): 336–342.

Racheboeuf, P. R., Vannier, J. & Anderson, L. I. 2002. A new three-dimensionally preserved xiphosuran chelicerate from the Montceau-les-Mines Lagerstätte (Carboniferous, France). *Palaeontology*, 45: 125–147.

Ramírez, M. J. & Grismado, C. J. 1997. A review of the spider family Filistatidae in Argentina (Arachnida: Araneae), with a cladistic reanalysis of filistatid genera. *Entomologica Scandinavica*, 28: 319–349.

Ramsay, G.W. 1960. Sub-fossil mites from the Hutt Valley. *Transactions of the Royal Society of New Zealand*, 88: 575–576.

Raymond, P. E. 1944. Late Paleozoic xiphosurans. *Bulletin of the Museum of Comparative Zoology*, 94: 475–508.

Raven, R. J. 1985. The spider infraorder Mygalomorphae (Araneae): cladistics and systematics. *Bulletin of the American Museum of Natural History,* 182: 1–180.

Raven, R. J., Jell, P. A. & Knezour, R. A. 2015. *Edwa maryae* gen. et sp. nov. in the Norian Blackstone Formation of the Ipswich Basin – the first Triassic spider (Mygalomorphae) from Australia. *Alcheringa*, 39: 259–263.

Redell, J. R. & Cokendolpher, J. C. 1995. Catalogue, bibliography and generic revision of the order Schizomida (Arachnida). *Texas Memorial Museum, Speleological Monographs*, 4: 1–170.

Reeside, J. B. & Harris, D. V. 1952. A Cretaceous horseshoe crab from Colorado. *Journal of the Washington Academy of Science*, 42: 174–178.

Reiskind, J. 1986. A new *Lyssomanes* from the Dominican amber and the possible use of insular fossils in building phylogenies. 423. *In* Barrientos, J. A. (ed.) *Actas X Congresso Internacional de Aracnologia, Jaca. Espanã), Volume 1*. Barcelona.

Reiskind, J. 1989. The potential use of amber fossils in the study of the biogeography of spiders in the Caribbean with the description of a new species of *Lyssomanes* from Domican amber (Araneae: Salticidae). 217–228. *In* Woods, C. A (ed.) *Biogeography of the West Indies, past, present and future*. Sandhill Crane Press, Gainesville, Florida.

Remy, W. & Remy, R. 1959. Arthropodenfunde im Stefan der Halleschen Mulde. *Monograph-Bericht der Deutschen Akademie Wissenschaft Berlin*, 1: 299–312.

Reuss, A. E. 1855. Palaeontologische Miscellen. III. Über eine neue Krusterspecies aus der Böhmischen Steinkohlenformation. *Denkschrift der königlich-kaiserlichen Akademie der Wissenschaft in Wien*, 10: 81–83.

Reuter, E. 1909. Zur Morphologie und Ontogenie der Acariden mit besonderen Berücksichtigung von *Pediculopsis graminum* (E. Reut.). *Acta Societatis Scientiarum Fennicae*, 36: 1–288.

Richter, R. & Richter, E. 1929. *Weinbergina opitzi* n. g., n. sp., ein Schwertträger (Merost. Xiphos.) aus dem Devon (Rheinland). *Senckenbergiana*, 11: 193–209.

Ribera, C. 2003. El arácanido del Plesiotoceno inferior de Incaral V (Girona, NE de la Península Ibérica). *Paleontologia i Evolució*, 34: 51–53.

Riek, E. F. 1955. A new xiphosuran from the Triassic sediments at Brookvale, New South Wales. *Records of the Australian Museum*, 23: 281–282.

Riek, E. F. & Gill, E. D. 1971. A new xiphosuran genus from Lower Cretaceous Freshwater sediments at Koonwarra, Victoria, Australia. *Palaeontology*, 14: 206–210.

Riquelme, F. & Menéndez-Acuña, M. 2017. Miocene spider *Maevia eureka* nov. sp. (Araneae: Salticidae). *PeerJ*, 5: e3614; DOI 10.7717/peerj.3614.

Riquelme, F., Piedra-Jiménez, D.F., Córdova-Tabares, V. & Luna-Castro, B. 2014. A new chernetid pseudoscorpion from the Miocene Chiapas – amber Lagerstätte, Mexico. *Canadian Journal of Earth Sciences*, 51: 902–908.

Riquelme, F., Villegas-Guzmán, G., González-Santillán, E., Córdova-Tabares, V., Francke, O. F., Piedra-Jiménez, D., Estrada-Ruiz, E. & Luna-Castro, B. 2015. New fossil scorpion from the Chiapas amber Lagerstätte. *PLoS ONE*, 10(8): e0133396.

Risso, A. 1827. Animaux articulés: description de quelques Myriapodes, Scorpionides, Arachnides et Acarides, habitant les Alpes Maritimes. *In* Risso, A. (ed.). *Histoire Naturelle des Principales Productions de l'Europe Méridionale et Principalement de Celles des Environs de Nice et des Alpes Maritimes*. Levrault, Paris, xx pp.

Ritchie, A. 1968. *Lanarkopterus dolichoshelus* (Størmer) gen. nov., a mixopterid eurypterid from the Upper Silurian of the Lesmahagow and Hagshaw Hills inliers, Scotland. *Scottish Journal of Geology*, 4: 317–338.

Rivas, G., Serrano-Sánchez, L. & Vega, F. J. 2016. First record of *Procaeculus* (Acari: Caeculidae) in Miocene amber from Chiapas, Mexico. *Boletín de la Sociedad Geológica Mexicana*, 68: 87–92.

Robin, N., Béthoux, O., Sidorchuk, E., Cui, Y.y., Li, Y.n., Germain, D., King, A., Berenguer, F. & Ren, D. 2016. A Carboniferous mite on an insect reveals the antiquity of an inconspicuous interaction. *Current Biology*, 26: 1–7.

Robineau-Desvoidy, J. B. 1828. *Recherches sur l'organisation vertébrale des Crustacés, Arachnides et Insectes.* Comprè Jeune, Paris, 228 pp.

Roemer, F. 1866. *Protolycosa anthracophila*, eine fossile Spinne aus dem Steinkohlengebirge Oberschlesiens. *Neues Jahresbuch für Mineralogie, Geologie und Paläontologie*: 136–143.

Roemer, F. 1878. Auffindung und Vorlegung eines neuen Gliderthieres in dem Steinkohlengebiete der Ferdinandsgrube bei Glatz. *Jahresbericht der Schlesischen Gesellschaft für Vaterländische-Kultur*., pp. 54–55.

Roewer, C. F. 1912. Die Familien der Assamiden und Phalangodiden der Opiliones-Laniatores. (=Assamiden, Dampetriden, Phalangodiden, Epedaniden, Biantiden, Zalmoxiden, Samoiden, Palpipediden anderer Autoren.) *Archiv für Naturgeschichte* 78A (3): 1–242.

Roewer, C.-F. 1913. Die Familie der Gonyleptiden der Opiliones-Laniatores. *Archiv für Naturgeschichte*, 79A (4, 5): 1–256, 257–473.

Roewer, C.-F. 1923. *Die Weberknechte der Erde. Systematische Bearbeitung der bisher bekannten Opiliones.* Gustav Fischer, Jena, 1116 pp.

Roewer, C.-F. 1933. Solifugae, Palpigradi. 161–480. *In* Bronn, H. G. (ed.). *Klassen und Ordnung des Tierreichs. 5: Arthropoda IV: Arachnoidea, vol. 5(IV) (4) (2–3)*. Akademische Verlagsgesellschaft M.B.H, Leipzig.

Roewer, C.-F. 1934. Solifugae, Palpigradi. 481–723. *In* Bronn, H. G. (ed.). *Klassen und Ordnung des Tierreichs. 5: Arthropoda IV: Arachnoidea, vol. 5(IV) (4) (4–5).* Akademische Verlagsgesellschaft M.B.H, Leipzig.

Roewer, C.-F. 1935. Zwei myrmecophile Spinnen-Arten Brasiliens. *Veröffentlichungen aus dem Deutschen Kolonial- und Übersee-Museum in Bremen*, 1: 193–197.

Roewer, C.-F. 1939. Opilioniden im Bernstein. *Palaeobiologica*, 7(1): 1–4.

Roewer, C.-F. 1942. *Katalog der Araneae von 1758 bis 1940. 1. Band.* Kommissions-Verlag von „NATURA“: 1040 pp.

Roewer, C.-F. 1943. Über Gonyleptiden. Weitere Webernechte (Arachn., Opil.) XI. *Senckenbergiana*, 26: 12–68.

Roewer, C.-F. 1951. Über Nemastomatiden. Weitere Weberknechte XVI. *Senckenbergiana*, 32: 95–153.

Roivainen, H. 1953. Subfamilies of European eriophyid mites. *Annales entomologici Fennici*, 19: 83–87.

Romero, A. & Via Boada, L. 1977. *Tarracolimulus rieki*, nov. gen., nov. sp., nuevo limulido del Triásico de Montral-Alcover (Tarragona). *Cuadernos de Geología Ibérica*, 4: 239–246.

Ross, A. J. & Vannier, J. 2002. Crustacea (excluding Ostracoda) and Chelicerata of the Purbeck Limestone Group, southern England: a review. *Special Papers in Palaeontology*, 68: 71–82.

Ross, A., Mellish, C., York, P. and B. Crighton. 2010. Burmese amber. 208–235. *In* Penney, D. (ed.). *Biodiversity of fossils in amber from the major world deposits*. Siri Scientific Press, Manchester, UK, 304 pp.

Rossi, A. 2015. A new family, genus and species of scorpion from the burmite of Burmese amber (Scorpiones: Sucinlourencoidae). *Rivista Aracnologica Italiana*, 1: 3–21.

Rößler, R. & Schneider, J. 1997. Eine bemerkenswerte Paläobiocoenose im Unterkarbon Mitteleuropas – Fossilführung und Paläoenvironment der Hainichen-Subgruppe (Erzgebirge-Becken). *Veröffentlichungen des Museums für Naturkunde Chemnitz*, 20: 5–44.

Roth, J. R. 1851. Ueber fossile Spinnen des lithographischen Schiefers. *Gelehrte Anzeigen herausgegeben von Mitgliedern der Königlichen Bayerischen Akademie der Wissenschaften in München*, 32: 164–167.

Rowland, J. M. 1975. A partial revision of Schizomida (Arachnida) with descriptions of new species, genus, and family. *Occasional Papers of the Museum, Texas Tech University*, 31: 1–21.

Rowland, J. M. & Sissom, W. D. 1980. Report on a fossil palpigrade from the Tertiary of Arizona, and a review of the morphology and systematics of the order (Arachnida: Palpigradida). *The Journal of Arachnology*, 8: 69–86.

Rudkin, D. M., Young, G. A. & Nowlan, G. S. 2008. The oldest horseshoe crab: a new xiphosurid from late Ordovician Konservat-Lagerstätten deposits, Manitoba, Canada. *Palaeontology*, 51: 1–9.

Rudkin, D. M., Cuggy, M. B., Young, G. A. & Thompson, D. P. 2013. An Ordovician pycnogonid (sea spider) with serially subdivided ‘head’ region. *Journal of Paleontology*, 87: 395–405.

Ruedemann, R. 1916. Account of some new or little known species of fossils, mostly from the Palaeozoic rocks of New York. *New York State Museum Bulletin*, 189: 7–112.

Ruedemann, R. 1921. A recurrent Pittsford (Salina) fauna. *New York State Museum Bulletin*, 219–20: 205–215.

Ruedemann, R. 1926. The Utica and Lorraine Formations of New York, Part 2, Systematic Paleontology, no. 2, Mollusks, Crustacea and Eurypterids. *New York State Museum Bulletin*, 189: 98–112.

Ruedemann, R. 1942. Some new eurypterids from New York. *New York State Museum Bulletin*, 327: 24–29.

Russell, L. S. 1953. A new species of eurypterid from the Devonian of Gaspé. *Annual Report of the National Museum for the Fiscal Year 1952–1953, Bulletin*, 132: 83–91.

Ryke, P. A. J. 1962. The subfamily Rhodacarinae with notes on a new subfamily Ologamasinae (Acarina: Rhodacaridae). *Entomologische Berichte Amsterdam*, 22: 155–162.

Salter, J. W. 1856. On some new Crustacea from the uppermost Silurian Rocks. *Quarterly Journal of the Geological Society of London*, 12: 26–34.

Sanchez, J. P., Nava, S. Lareschi, M., Ortiz, P. E. & Guglielmone, A. A. 2010. Finding of an ixodid tick inside a late Holocene owl pellet from northwestern Argentina. *Journal of Parasitology*, 96: 820–822.

Santiago-Blay, J. A. & Poinar Jr., G. O. 1988. A fossil scorpion *Tityus geratus* new species (Scorpiones: Buthidae) from Dominican amber. *Historical Biology*, 1: 345–354.

Santiago-Blay, J. A., Fet, V., Soleglad, M. E. & Anderson, S. R. 2004. A new genus and subfamily of scorpions from Lower Cretaceous Burmese amber (Scorpiones: Chaerilidae). *Revista Ibérica de Aracnología*, 9: 3–14.

Sarle, C. J. 1903. A new eurypterid fauna from the base of the Salina in western New York. *New York State Museum Bulletin*, 69: 1080–1108.

Sars, G. O. 1891. Pycnogonidea. *Norwegian North-Atlanttic Expedition, 1876–1878*, 6 (Zool. 20): 1–163.

Saupe, E. E. & Selden, P. A. 2009. First fossil Mecysmaucheniidae (Arachnida, Chelicerata, Araneae), from Lower Cretaceous (uppermost Albian) amber of Charente-Maritime, France. *Geodiversitas*, 31: 49–60.

Saupe, E. E., Selden, P. A. & Penney, D. 2010. First fossil *Molinaranea* Mello-Leitão, 1940 (Araneae: Araneidae), from middle Miocene Doninican amber, with a phylogenetic and palaeobiogeographical analysis of the genus. *Zoological Journal of the Linnean Society*, 158: 711–725.

Saupe, E. E., Pérez-de la Fuente, R., Selden, P. A., Delclòs, X., Tafforeau, P. & Soriano, C. 2012. New *Orchestina* Simon, 1882 (Araneae: Oonopidae) from Cretaceous ambers of Spain and France: First spider described using phase-contrast x-ray synchrotron microtomography. *Palaeontology*, 55: 127–143.

Savage, T. E. 1916. Alexandrian rocks of northeastern Illinois and eastern Wisconsin. *Bulletin of the Geological Society of America*, 27: 305–324.

Sayre, R. M., Smiley, R. L. & Walter, D. E. 1992. Report of a teneriffiid mite (Acari) in Baltic amber and notes on recent discoveries. *International Journal of Acarology*, 18: 303–305.

Scharf, W. 1924. Beitrag zur Geologie des Steinkohlengebietes im Südharz. *Jahrbuch des Halleschen Verbands für die Erforschung der Mitteldeutschen Bodenschätze und ihrer Verwaltung*, 4: 404–437.

Schawaller, W. 1978. Neue Pseudoskorpione aus dem Baltischen Bernstein der Stuttgarter Bernsteinsammlung (Arachnida: Pseudoscorpionidea). *Stuttgarter Beiträge zur Naturkunde (B)*, 42: 1–21.

Schawaller, W. 1979*a*. Erstnachweis eines Skorpions in Dominikanischem Bernstein (Stuttgarter Bernsteinsammlung: Arachnida, Scorpionida). *Stuttgarter Beiträge zur Naturkunde (B)*, 45: 1–15.

Schawaller, W. 1979*b*. Erstnachweis der Ordnung Geisselspinnen in Dominikanischem Bernstein (Stuttgarter Bernsteinsammlung: Arachnida, Amblypygi). *Stuttgarter Beiträge zur Naturkunde (B)*, 50: 1–12.

Schawaller, W. 1980*a*. Fossile Chthoniidae in Dominikanischem Bernstein, mit phylogenetischen Anmerkungen (Stuttgarter Bernsteinsammlung: Arachnida, Pseudoscorpionidea). *Stuttgarter Beiträge zur Naturkunde (B)*, 63: 1–19.

Schawaller, W. 1980*b*. Erstnachweis tertiärer Pseudoskorpione (Chernetidae) in Dominikanischen Bernstein. *Stuttgarter Beitrag zur Naturkunde (B)*, 57: 1–20.

Schawaller, W. 1981. Cheiridiidae in Dominikanischem Bernstein, mit Anmerkungen zur morphologischen Variabilität (Stuttgarter Bernsteinsammlung: Arachnida, Pseudoscorpionidea). *Stuttgarter Beiträge zur Naturkunde (B)*, 75: 1–14.

Schawaller, W. 1982*a*. Zwei weitere Skorpione in Dominikanischem Bernstein (Stuttgarter Bernsteinsammlung: Arachnida, Scorpionida). *Stuttgarter Beiträge zur Naturkunde (B)*, 82: 1–14.

Schawaller, W. 1982*b*. Der erste Pseudokorpion (Chernetidae) aus Mexicanischem Bernstein. *Stuttgarter Beiträge zur Naturkunde (B)*, 85: 1–9.

Schawaller, W. 1982*c*. Spinnen der Familien Tetragnathidae, Uloboridae und Dipluridae in Dominikanischem Bernstein und allgemeine Gesichtspunkte (Arachnida, Araneae). *Stuttgarter Beiträge zur Naturkunde (B)*, 89: 1–19.

Schawaller, W. 1982*d*. Zur fossilen Spinnenfauna des Pliozäns von Willershausen in Norddeutschland (Arachnida, Araneae). *Berichte der Naturhistorischen Gesellschaft zu Hannover*, 125: 89–95.

Schawaller, W. 1984. The family Selenopidae in Dominican amber (Arachnida: Araneae). *Stuttgarter Beiträge zur Naturkunde (B)*, 103: 1–8.

Schawaller, W., 1991. The first Mesozoic pseudoscorpion, from Cretaceous Canadian amber. *Palaeontology*, 34: 971–976.

Schawaller, W. & Ono H. 1979. Fossile Spinnen aus miozänen Sedimenten des Randecker Maars in SW-Deutschland (Arachnida: Araneae). *Jahreshefte der Gesellschaft für Naturkunde in Württemberg*, 134: 131–141.

Schawaller, W., Shear, W. A. & Bonamo, P. M. 1991. The first Paleozoic pseudoscorpions (Arachnida, Pseudoscorpionida). *American Museum Novitates*, 3009: 1–17.

Schille, F. 1916. Entomologie aus der Mammut- und Rhinoceros-Zeit Galiziens. *Entomologische Zeitschrift*, 30: 42–43.

Schimkewitsch, W. 1913. Ein Beitrag zur Klassifikation der Pantopoden. *Zoologischen Anzeiger*, 41: 597–615.

Schimper, W. P. 1853. Paleontologica alsatica ou fragments paléontologiques des différents terrains stratifies qui se recontrent en Alsace. *Mémoires de la Société du Muséum d'Histoire Naturelle de Strasbourg*, 4: 1–10.

Schmidt, A. R., Jancke, S., Lindquist, E. E., Ragazzi, E., Roghi, G., Nascimbene, P. C., Schmidt, K., Wappler, T. & Grimaldi, D. A. 2012. Arthropods in amber from the Triassic period. *Proceedings of the National Academy of Science, USA*, doi/10.1073/pnas.1208464109.

Schmidt, A. R., Perrichot, V., Svojtka, M. Anderson, K. B., Belete, K. H., Bussert, R., Dörfelt, H., Jancke, S., Mohr, B., Mohrmann, E., Nascimbene, P. C., Nel, A., Nel, P., Ragazzi, E.,Roghi, G., Saupe, E. E., Schmidt, K., Schneider, H., Selden, P. A., Vávra, N. 2010. Cretaceous life captured in amber. *Proceedings of the National Academy of Sciences, USA*: doi/10.1073/pnas.1000948107.

Schmidt, F. 1883. Nachtrag zur Monographie der Russischen Leperditen II. Die Crustaceenfauna der Eurypterеenschichten von Rootziküll auf Oesel. Miscellanea silurica III. *Memoirs of the Academy of Science de St. Petersbourg*, 31: 28–85.

Schram, F. R. 1979. Limulines of the Mississippian Bear Gulch Limestone of Central Montana, USA. *Transactions of the San Diego Society of Natural History*, 19: 67–74.

Schram, F. R. 1984. Upper Pennsylvanian arthropods from black shales of Iowa and Nebraska. *Journal of Paleontology*, 58: 197–209.

Schultka, S. 1991. *Trigonotarbus stoermeri* n. sp. – ein Spinnentier aus den Bensberger Schichten (Ems/Unter-Devon) des Rheinisches Schiefergebirge. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 183: 375–390.

Schuster, R. 1963. *Thalassozetes riparius* n. gen., n. sp., eine litoralbewohnende Oribatide von bemerkenswerter morphologischer Variabilität (Oribatei-Acari). *Zoologischer Anzeiger*, 171: 391–403.

Scopoli, J. A. 1763. *Entomologia Carniolica, exhibens Insecta Carniolae indigena et distributa in ordines, genera, species, varietates. Methodo Linnaeana. Vindobonae*, 1763: 420 pp.

Scott, A. G. 2003. Sub-fossil spiders from Holocene peat cores. *Journal of Arachnology*, 31: 1–7.

Scudder, S. H. 1868. Supplement to descriptions of Articulates. Description of fossil insects found on Mazon Creek and near Morris, Grundy Co., Ill. *Geological Survey of Illinois*, 3: 566–572.

Scudder, S. H. 1876. New and interesting insects from the Carboniferous of Cape Breton. *Canadian Naturalist and Quarterly Journal of Science*, 8: 88–90.

Scudder, S. H. 1878. Additions to the Insect-Fauna of the Tertiary Beds at Quesnel, British Columbia. *Geological Survey of Canada. Report of Progress*, 1876–1877: 457–464.

Scudder, S. H. 1884. A contribution to our knowledge of Paleozoic Arachnida. *Proceedings of the American Academy of Arts and Sciences*, 20: 13–22.

Scudder, S. H. 1885. 3. Classe. Arachnoidea. Spinnen. Skorpione. 732–746. *In* Zittel, K. A. (ed), *Handbuch der Palaeontologie. I. Abtheilung. Palaeozoologie 2.* R. Oldenbourg, München & Leipzig.

Scudder, S. H. 1890*a*. The Tertiary Insects of North America. *Report of the United States Geological Survey*, 13: 734 pp.

Scudder, S. H. 1890*b*. Illustrations of the Carboniferous Arachnida of North America, of the orders Anthracomarti and Pedipalpi. *Memoirs of the Boston Society of Natural History*, 4: 443–456.

Scudder, S. H. 1891. Index to the known fossil insects of the world including myriapods and arachnids. *Bulletin of the United States Geological Survey* 71: 1–744.

Seegis, D. 2014. The first fossil limuloid remain from the Stuttgart Formation (Schilfsandstein, Keuper, Karnian, Late Triassic) of Baden-Württemberg, southern Germany. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 234: 229–238.

Seemann, F. 1906. Beiträge zur Gigantostrakenfauna Böhmens. *Beiträge zur Paläontologie Österreich-Ungarns und des Orients*, 19: 49–57.

Selden, P. A. 1990. Lower Cretaceous spiders from the Sierra de Montsech, north-east Spain. *Palaeontology*, 33: 257–285.

Selden, P. A. 1992. Revision of the fossil ricinuleids. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 83: 595–634.

Selden, P. A. 1996. First fossil mesothele spider from the Carboniferous of France. *Revue suisse de Zoologie*, hors série: 585–596.

Selden, P. A. 2000. *Palaeothele*, replacement name for the fossil mesothele spider *Eothele* non Rowell. *Bulletin of the British arachnological Society*, 11: 292.

Selden, P. A. 2001. Eocene spiders from the Isle of Wight with preserved respiratory structures. *Palaeontology*, 44: 695–729.

Selden, P. A. 2002. First British Mesozoic spider, from Cretaceous amber of the Isle of Wight, southern England. *Palaeontology*, 45: 973–983.

Selden, P. A. 2010. A theridiosomatid spider from the Early Cretaceous of Russia. *Bulletin of the British arachnological Society*, 15: 69–78.

Selden, P. A. 2014*a*. A new spider (Araneae: Haplogynae: Plectreuridae) from the Cretaceous Fossil-Lagerstätte of El Montsec, Spain. *Journal of Arachnology*, 42: 16–23.

Selden, P. A. 2014*b*. Spiders (Arachnida: Araneae) from the Insect Limestone (Bembridge Marls, Late Eocene) of the Isle of Wight, southern England. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, 104: 1–8.

Selden, P. A. & Beattie, R. G. 2013. A spider fossil from the Jurasic Talbragar Fossil Fish Bed of New South Wales. *Alcheringa*, 37: 203–208.

Selden, P. A. & Drygant, D. M. 1987. A new xiphosuran from the Silurian of Podolia, Ukraine, USSR. *Palaeontology*, 30: 537–542.

Selden, P. A. & Dunlop, J. A. 2014. The first fossil spider (Araneae: Palpimanoidea) from the Lower Jurassic (Grimmen, Germany). *Zootaxa*, 3894: 161–168.

Selden, P. A. & Gall, J.-C. 1992. A Triassic mygalomorph spider from the northern Vosges, France. *Palaeontology*, 35: 211–235.

Selden, P. A. & Huang, D.-y. 2010. The oldest haplogyne spider (Araneae: Plectreuridae), from the Middle Jurassic of China. *Naturwissenschaften*, 97: 449–459

Selden, P. A. & Penney, D. 2003. Lower Cretaceous spiders (Arthropoda: Arachnida: Araneae) from Spain. *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 2003: 175–192.

Selden, P. A. & Penney, D. 2009. A fossil spider (Araneae: Pisauridae) of Eocene age from Horsefly, British Columbia, Canada. *Contributions to Natural History*, 12: 1269–1282.

Selden, P. A. & Shear, W. A. 1996. The first Mesozoic solifuge (Arachnida), from the Cretaceous of Brazil, and a redescription of the Palaeozoic solifuge. *Palaeontology*, 39: 583–604.

Selden, P. A. & Siveter, D. J. 1987. The origin of the limuloids. *Lethaia*, 20: 383–392.

Selden, P. A. & Wang, Y. 2014. Fossil spiders (Araneae) from the Eocene Green River Formation of Colorado. *Arthropoda Selecta*, 23: 207–219.

Selden, P. A., Baker, A. S. & Phipps, K. J. 2008. An oribatid mite (Arachnida: Acari) from the Oxford Clay (Jurassic: Upper Callovian) of South Cave Station Quarry, Yorkshire, UK. *Palaeontology*, 51: 623–633.

Selden, P. A., Casado, F. C. & Mesquita, M. V. 2006. Mygalomorph spiders (Araneae: Dipluridae) from the Lower Cretaceous Crato Lagerstätte, Araripe Basin, north-east Brazil. *Palaeontology*, 49: 817–826.

Selden, P. A., Dunlop J. A. & Simonetto, L. 2016. A fossil whip-scorpion (Arachnida: Thelyphonida) from the Upper Carboniferous of the Carnic Alps (Friuli, NE Italy). *Rivista Italiana di Paleontologia e Stratigrafia*, 122: 9–14.

Selden, P. A., Huang, D.-y. & Ren, D. 2008. Palpimanoid spiders from the Jurassic of China. *Journal of Arachnology*, 36: 306–321.

Selden, P. A., Lamsdell, J. C. & Qi, L. 2015. An unusual euchelicerate linking horseshoe crabs and eurypterids, from the Lower Devonian (Lochkovian) of Yunnan, China. *Zoologica Scripta*, 44: 645–652.

Selden, P. A., Ren, D. & Shih, C-k. 2016. Mesozoic cribellate spiders (Araneae: Deinopoidea) from China. *Journal of Systematic Palaeontology*, 14: 49–74.

Selden, P. A., Shear, W. A. & Bonamo, P. M. 1991. A spider and other arachnids from the Devonian of New York, and reinterpretations of Devonian Araneae. *Palaeontology*, 34: 241–281.

Selden, P. A., Shear, W. A. & Sutton, M. D. 2008. Fossil evidence for the origin of spider spinnerets, and a proposed arachnid order. *Proceedings of the National Academy of Sciences of the United States of America*, 105: 20781–20785.

Selden, P. A., Shih, C.-k. & Ren, D. 2011. A golden orb-weaver spider (Araneae: Nephilidae: Nephila) from the Middle Jurassic of China. *Biology Letters*, 7: 775–778.

Selden, P. A., Shih, C.-k. & Ren, D. 2013. A giant spider from the Jurassic of China reveals greater diversity of the orbicularian stem group. *Naturwissenschaften*, 100: 1171–1181.

Selden, P. A., Zhang, W. & Ren, D. 2016. A bizarre armoured spider (Araneae: Tetrablemmidae) from Upper Cretaceous Myanmar amber. *Cretaceous Research*, 66: 129–135.

Selden, P. A., Anderson, J. M., Anderson, H. M. & Fraser, N. C. 1999. Fossil araneomorph spiders from the Triassic of South Africa and Virginia. *Journal of Arachnology*, 27: 401–414.

Selden, P. A., Nam, K.-s., Kim, S. H. & Kim, H. J. 2012. A fossil spider from the Cretaceous of Korea. *Journal of Palaeontology*, 86: 1–6.

Selden, P. A., Shcherbakov, D. E., Dunlop, J. A. & Eskov, K. Y. 2014. Arachnids from the Carboniferous of Russia and Ukraine, and the Permian of Kazakhstan. *Paläontologische Zeitschrift*, 88: 297–307.

Selden, P. A., Dunlop, J. A., Giribet, G., Zhang, W. & Ren, D. 2016. The oldest armoured harvestman (Arachnida: Opiliones: Laniatores), from Upper Cretaceous Myanmar amber. *Cretaceous Research*, 65: 206–212.

Sellnick, M. 1918. Die Oribatiden der Bernsteinsammlung der Universität Königsberg I Pr. *Schriften* der *Physikalisch-Ökonomischen Gesellschaft* zu *Königsberg (1919)*, 59: 21–42.

Sellnick, M. 1922. Milben der Sammlung des Deutschen Entomologischen Instituts. I. Oribatidae. *Entomologische Mitteilungen*, 11: 18–20.

Sellnick, M. 1928. Formenkreis: Hornmilben, Oribatei. *In* Brohmer, P., Ehrmann, P. & Ulmer, G. (eds). *Die Tierwelt Mitteleuropas*, 3, 4(9): 1–42.

Sellnick, M. 1931. Milben im Berstein. *Bernsteinforschung*, 2: 148–180.

Semper, M. 1898. Die Gigantostraken des älteren böhmischen Paläozoicum. *Beiträge zur Paläontologie Österreich-Ungarns und des Orients*, 2: 71–88.

Shear, W. A., 1980. A review of the Cyphophthalmi of the United States and Mexico, with a proposed reclassification of the suborder (Arachnida, Opiliones). *American Museum Novitates*, 2705: 1–34.

Shear, W. A., 1986. A cladistic analysis of the opilionid superfamily Ischyropsalidoidea, with description of the new family Ceratolasmatidae, the new genus *Acuclavella* and four new species. *American Museum Novitates*, 2844: 1–29.

Shear, W. A., 1993. The genus *Troglosiro* and the new family Troglosironidae (Opiliones, Cyphophthalmi). *Journal of Arachnology*, 21: 81–90.

Shear, W. A. 2000. *Gigantocharinus szatmaryi*, a new trigonotarbid arachnid from the Late Devonian of North America (Chelicerata, Arachnida, Trigonotarbida). *Journal of Paleontology*, 74: 25–31.

Shear, W. A. 2010. New species and records of ortholasmatine harvestmen from México, Honduras, and the western United States (Opiliones, Nemastomatidae, Ortholasmatinae). *ZooKeys*, 52: 9–45.

Shear, W. A., Selden, P. A., Rolfe, W. D. I., Bonamo, P. M. & Grierson, J. D. 1987. New terrestrial arachnids from the Devonian of Gilboa, New York. *American Museum Novitates*, 2901: 1–74.

Sharma, P. P. & Giribet, G. 2011. The evolutionary and biogeographic history of the armoured harvestmen – Laniatores phylogeny based on ten molecular markers, with the description of two new families of Opiliones (Arachnida). Invertebrate Systematics, 25: 106–142.

Sharma, P. P., Prieto, C. E. & Giribet, G. 2011. A new family of Laniatores (Arachnida: Opiliones) from the Afrotropics. *Invertebrate Systematics*, 25: 143–154.

Shpinev, E. S. 2006. A new species of *Adelophthalmus* (Eurypterida) from the Lower Carboniferous of the Krasnoyarsk Region. *Paleontological Journal*, 40: 431–433. [English translation of Russian original]

Shpinev, E. S. 2012. On some eurypterids (Eurypterida, Chelicerata) from the Devonian of South Siberia. *Paleontological Journal*, 46: 370–377. [English translation of Russian original]

Shpinev, E. S. & Vasilenko, D. V. 2018. First fossil xiphosuran (Chelicerata, Xiphosura) egg clutch from the Carboniferous of Khakassia. *Paleotological Journal*, 52: 400–404.

Shuler, E. W. 1915. A new Ordovician eurypterid. *American Journal of Science, 4th Series*, 39: 551–554.

Sidorchuk, E. A. 2004. Subfossil oribatid mites as the bioindicators of profound environmental changes during the Holocene. *Doklady Biological Sciences*, 396: 236–239.

Sidorchuck, E. A. 2018. Mites as fossils: forever small. International Journal of Acarology. Online first.

Sidorchuk, E. A. & Behan-Pelletier, V. M. 2017. *Megeremaeus cretaceous* new species (Acari: Oribatida), the first oribatid mite from Canadian amber. *Canadian Entomologist*, 149: 277–290.

Sidorchuk, E. A. & Bertrand, M. 2013. New fossil labidostomatids (Acari: Labidostomatidae) from Eocene amber and presence of an apustulate species in Europe. *Acarologia*, 53: 25–39.

Sidorchuk E. A. & Khaustov A. A. 2018*a*. A parasite without host: The first fossil pterygosomatid mite (Acari: Prostigmata: Pterygosomatidae) from French Lower Cretaceous amber. *Cretaceous Research*, 91: 131–139.

Sidorchuk E. A. & Khaustov A. A. 2018*b*. Two Eocene species of peacock mites (Acari: Tetranychoidea: Tuckerellidae). *Acarologia*, 58: 99–115.

Sidorchuk, E. A. & Klimov, P. B. 2011. Redescription of the mite *Glaesacarus rhombeus* (Koch & Berendt, 1854) from Baltic amber (Upper Eocene): evidence for female-controlled mating. *Journal of Systematic Palaeontology*, 9: 183–196.

Sidorchuk, E. A. & Norton, R. A. 2011. The fossil mite family Archaeorchestidae (Acari, Oribatida) I: redescription of *Stieremaeus illibatus* and synonymy of *Strieremaeus* with *Archaeorchestes*. *Zootaxa*, 2993: 34–58.

Sidorchuk, E. A., Perrichot, V. & Lindquist, E. E. 2016. A new fossil mite from French Cretaceous amber (Acari: Heterostigmata: Nasutiacaroidea superfam. nov.), testing evolutionary concepts within the Eleutherengona (Acariformes). *Journal of Systematic Palaeontology*, 14: 297–317.

Sidorchuk, E. A., Bochkov, A. V., Weiterschan, T. & Chernova, O. F. 2019. A case of mite-on-mammal ectoparasitism from Eocene Baltic amber (Acari: Prostigmata: Myobiidae and Mammalia: Erinaceomorpha). *Journal of Systematic Paleontology*, 17: 330-346.

Sidorchuk, E. A., Schmidt, A. R., Ragazzi, E., Roghi, G., Lindquist, E. E. 2015. Plant-feeding mite diversity in Triassic amber (Acari: Tetrapodili). *Journal of Systematic Palaeontology*, 13: 129–151.

Siebold, C. T. E. von. 1850. Ueber *Eriophyes*. *Jahresbericht der Schlesischen Gesellschaft*, 28: 88–89.

Siegfried, P. 1972. Ein Schwertschwanz (Merostomata, Xiphosurida) aus dem Oberkarbon von Ibbenburen/Westfalien. *Paläontologische Zeitschrift*, 46, 180–186.

Šilhavý, V. 1973. Two new systemaric groups of the gonyleptomorph phalangids from the Antillean-Caribbean Region. Agoristenidae fam. n. and Caribbantinae subfam. n. *Věstník Československé Společnosti Zoologické*, 37: 110–143.

Šilhavý, V. 1979. New American representatives of the subfamily Samoinae (Opiliones, Phalangodidae, Arach.). *Annotationes zoologicae et botanicae, Bratislava*, 130: 1–27.

Simon, E. 1864. *Histoire naturelle des Araignées (Aranéides)*. Paris, 540 pp.

Simon, E. 1874. *Les arachnides de France. Tome 1*. Paris, 272 pp.

Simon, E. 1876*a*. *Les Arachnides de France. Tome 3.* Paris, 360 pp.

Simon, E. 1876*b*. Etude sur les Arachnides du Congo. *Bulletin de la Société zoologique de France*, 1: 12–15, 216–224.

Simon, E. 1879*a*. *Les Arachnides de France VII. Contenant les ordes des Chernetes, Scorpiones et Opiliones*. Paris.

Simon, E. 1879*b*. Essai d'une classification des Opiliones Mecostethi. Remarques synonymiques et descriptions d'espèces nouvelles. *Annales de la Société Entomologique de Belgique*, 22: 183–241.

Simon, E. 1880. Études arachnologiques 12e Mémoire(1). XVII. Déscriptions de Genres et Espèces de l'ordre des Scorpiones. *Annales de la Société Entomologique de France*, (5)10: 377–398.

Simon, E. 1881. *Les Arachnides de France. Tome 5, 1re partie*. Paris, 179 pp.

Simon, E. 1882. Etudes arachnologiques. 13e Mémoire. 20. Descriptions d'espèces et de genres nouveaux de la famille des Dysderidae. *Annales de la Société Entomologique de France*, (6)2: 201–240.

Simon, E. 1884*a*. Note synonymique sur les genres *Prodidomus* Hentz et *Miltia* E.S. *Annales de la Société Entomologique de Belgique*, 28: 302.

Simon, E. 1884*b*. Note complémentaire sur la famille des Archaeidae. *Annali del Museuo Civico di Storia Naturale di Genova*, 20: 373–380.

Simon, E. 1884*c*. *Les Arachnides de France. Tome 5, 2e et 3e parties*. Paris, pp. 180–808.

Simon, E. 1884*d*. Description d'une nouvelle famille de l'ordre des Araneae (Bradystichidae). *Annales de la Société Entomologique de Belgique*, 28: 297–301.

Simon, E. 1885*a*. Etudes arachnologiques. 17e Mémoire. XXVI. Arachnides recueillis dans la vallée de Templé et sur le mont Ossa (Thessalie). *Annales de la Société Entomologique de France*, 5: 209–217.

Simon, E. 1885*b*. Etude sur les Arachnides recueillis en Tunisie en 1883 et 1884 par MM. A. Letourneux, M. Sédillot et Valéry Mayet, membres de la Mission de l'Exploration scientifique de la Tunisie. *In Exploration scientifique de la Tunisie*, Paris, 55 pp.

Simon, E. 1885*c*. Etudes arachnologiques. 18e Mémoire. XXVI. Matériaux pour servir à la fauna des Arachnides du Sénégal. (Suivi d'un appendice intitulé: Descriptions de plusieurs espèces africaines nouvelles). *Annales de la Société Entomologique de France*, 5: 345–396.

Simon, E. 1887. Espèces et genres nouveaux de la famille des Sparassidae. *Bulletin de la Société zoologique de France*, 12: 466–474.

Simon, E. 1888. Etudes arachnologiques. 21e Mémoire. 29. Descriptions d'espèces et de genres nouveaux de l'Amérique centrale et des Antilles. *Annales de la Société Entomologique de France*, (6) 8: 203–216.

Simon, E. 1889*a*. Etudes arachnologiques. 21e Mémoire. 31. Descriptions d'espèces et de genres nouveaux de Madagascar et de Mayotte. *Annales de la Société Entomologique de France*, (6) 8: 223–236.

Simon, E. 1889*b*. Arachnides. *In* Voyage de M. E.Simon au Venezuela (décembre 1887 – avril 1888). 4e Mémoire. *Annales de la Société Entomologique de France*, (6) 9: 169–220.

Simon, E. 1890. Etudes arachnologiques. 22e Mémoire. 34. Etude sur les Arachnides de l'Yemen. *Annales de la Société Entomologique de France*, 10: 77–124.

Simon, E. 1891*a*. Observations biologiques sur les Arachnides. I. Araignées sociables. *In* Voyage de M. E. Simon au Venezuela (Décembre 1887 – avril 1888). 11e Mémoire. *Annales de la Société Entomologique de France*, 60: 5–14.

Simon, E. 1891*b*. On the spiders of the Island of St. Vincent. Part I. *Proceedings of the Zoological Society of London*, 1891: 549–575.

Simon, E. 1892*a*. Arachnides. *In* Raffray, A., Bolivar, I. & Simon, E. (eds). Etude sur les Arthropodes cavernicoles de île Luzon, Voyage de M. E. Simon aux îles Philippines (Mars et avril 1890). *Annales de la Société Entomologique de France*, 61: 35–52.

Simon, E. 1892*b*. *Histoire naturelle des Araignées. Volume 1, part 1.* Roret, Paris, pp. 1–254.

Simon, E. 1893. *Histoire naturelle des Araignées. Volume 1, part 2.* Roret, Paris, pp. 255–488.

Simon, E. 1894. *Histoire naturelle des Araignées, Volume 1, part 3.* Roret, Paris, pp. 489–760.

Simon, E. 1895. *Histoire naturelle des Araignées, Volume 1, part 4.* Roret, Paris, pp. 761–1084.

Simon, E. 1896. Description d'un Arachnide cavernicole de l'Afrique australe. *Bulletin de la Société Entomologique de France*, 1869: 285–286.

Simon, E. 1897*a*. *Histoire naturelle des Araignées, Volume 2, part 1.* Roret, Paris, 1–192.

Simon, E. 1897*b*. On the Spiders of the Island of St. Vincent. Part III. *Proceedings of the Zoological Society of London*, 1897: 860–890.

Simon, E. 1898*a*. *Histoire naturelle des Araignées, Volume 2, part 2.* Roret, Paris, 1–269.

Simon, E. 1898*b*. Etude sur les Arachnides de la région des Maures (Var.) *Feuille des Jeunes Naturalistes*, (3) 29: 2–4.

Simon, E. 1900. Descriptions d'arachnides nouveaux de la famille des Attidae. *Annales de la Société Entomologique de Belgique*, 44: 381–407.

Simon, E. 1903. *Histoire naturelle des Araignées, Volume 2, part 4.* Roret, Paris, 669–1080.

Simon, E. 1929. *Les Arachnides de France. Tome 6.* Paris, pp. 533–772.

Simon, R. 1971. Neue Arthropodenfunde aus dem Stephan der Halleschen Mulde. *Bericht der Deutschen Gessellschaft für Geologische Wissenschaft, Reihe A: Geologie/Paläontologie*, 16: 53–62.

Simonetta, A. M. & Delle Cave, L. 1978. Una possibile interpretazione filogenetica degli artropodi paleozoici. *Bollettino di zoologia*, 45: 87–90.

Simpson, S. 1951. A new Eurypterid from the Upper Old Red Sandstone of Portishead. *Annals and Magazine of Natural History, series 12*, 4: 849–861.

Siveter, D. J. & Selden, P. A. 1987. A new, giant xiphosurid from the lower Namurian of Weardale, County Durham. *Proceedings of the Yorkshire Geological Society*, 46: 153–168.

Siveter, D. J., Sutton, M. D., Briggs, D. E. G. & Siveter, D. J. 2004. A Silurian sea spider. *Nature*, 431: 978–980.

Sivhed, U. & Wallwork, J. A. 1978. An early Jurassic oribatid mite from southern Sweden. *Geologiska Föreningens I Stockholm Förhandlingar*, 100: 65–70.

Smith, F. P. 1902. The spiders of Epping Forest. *Essex Naturalist*, 12: 181–201.

Sørensen, W. E. 1884. Opiliones Laniatores (Gonyleptides W. S. Olim) Musei Hauniensis. *Naturhistorisk Tidsskrift, Kjøbenhavn, series 3*, 14: 555–646.

Sørensen, W. 1886. Opiliones. pp. 53–86. *In* Koch, L. & Keyserling, E. (eds) *Die Arachniden Australiens nach der Natur Beschrieben und Abgebildet.* Bauer und Raspe, Nürnberg, **xx** pp.

Sørensen, W. 1932. Descriptiones Laniatorum (Arachnidorum Opilionum Subordinis). (Opus posthum recognovit et editit Kai L. Henriksen). – *Kongelige Danske Videnskabernes Selskabs Skrifter - Naturvidenskab og Mathematiske Afdeling, København, ser. 9*, 3(4): 197–422.

Soriano, C., Archer, M., Azar, D., Creaser, P., Delclòs, X., Godhelp, H., Hand, S., Jones, A., Nel, A., Nèraudeau, D., Ortega-Blanco, J., Pèrez-de la Fuente, R., Perrichot, V., Saupe, E., Solòrzano-Kraemer, M., Taffreau, P. 2010. Synchrotron X-ray imaging on inclusions in amber. *Comptes Rendus Palevol*, 9, 361–368.

Southcott, R. V. 1957a. Description of a new Australian raphignathoid mite, with remarks on the classification of the Trombidiformes (Acarina). *Proceedings of the Linnean Society of New South Wales*, 81(3): 306–312.

Southcott, R.V. 1957b. On *Vatacarus ipoides* n. gen., n. sp. (Acarina: Trombidoidea). A new respiratory endo-parasite from a Pacific sea-snake.*Transactions Royal Society South Australia*, 80: 165–176.

Southcott, R. V. & Lange, R. T. 1971. Acarine and other microfossils from the Maslin eocene, South Australia. *Records of the South Australian Museum*, 16(xx): 1–21.

Stahnke, H. L. 1940. The scorpions of Arizona. *Iowa State College Journal of Science*, 15: 101–103. [Thesis abstract.]

Stainier, X. 1917. On a new eurypterid from the Belgian Coal Measures. *Quarterly Journal of the Geological Society*, 71: 639–647.

Sterzel, J.T. 1918. Die organischen Reste des Kulms und Rotliegenden der Gegend von Chemnitz. *Abhandlungen der Königlich Sächsischen Gesellschaft der Wissenschaften, Mathematisch-physikalische Klasse*, 35: 1–315.

Stock, J. H. 1954. Papers from Dr. Th. Mortensen's Pacific expedition 1914–1916. LXXVII. Pycnogonida from Indo-West-Pacific, Australian, and New-Zealand waters. *Videnskabelige Meddelelser fra Dansk naturhistorisk Foreningen*, 116(1): 1–168.

Stott, C. A., Tetlie, O. E., Braddy, S. J., Nowlan, G. S., Glasser, P. M. & Devereux, M. G. 2005. A new eurypterid (Chelicerata) from the Upper Ordovician of Manitoulin Island, Ontario, Canada. *Journal of Paleontology*, 79: 1166–1174.

Størmer, L. 1934*a*. Downtontian Merostomata from Spitsbergen with remarks on the suborder Synziphosura. *Skrifter utgitt av Det Norske Videnskaps-Akademi I Oslo, I. Matem.-Naturvid. Klasse*, 1933(3): 1–26.

Størmer, L. 1934*b*. Merostomata from the Downtonian Sandstones of Ringerike, Norway. *Skrifter utgitt av Det Norske Videnskaps-Akademi I Oslo, I. Matem.-Naturvid. Klasse*, 1933(10): 1–125.

Størmer, L. 1934*c*. Uber den neuen von W. Gross beschriebenen Eurypteriden aus dem Unterdevon von Overath im Rheinland. *Jahrbuch der Preussischen Geologischen Landesanstalt*, 55: 284–291.

Størmer, L. 1934*d*. A new Eurypterid from the Saaremaa-(Oesel)-Beds in Estonia. *Publications of the Geological Institution of the University of Tartu*, 37: 1–8.

Størmer, L. 1936*a*. Eurypteriden aus dem Rheinischen Unterdevon. *Abhandlungen der Preussischen Geologischen Landesanstalt, Neue Folge*, 175: 1–74.

Størmer, L. 1936*b*. *Mixopterus dolichoshelus* (Laurie MS), a Downtonian eurypterid from Scotland. *Summary of Progress of the Geological Survey for 1934*: 41–46.

Størmer, L. 1951. A new eurypterid from the Ordovician of Montgomeryshire, Wales. *Geological Magazine*, 88: 409–422.

Størmer, L. 1952. Phylogeny and taxonomy of fossil horseshoe crabs. *Journal of Paleontology*, 26: 630–639.

Størmer, L. 1963. *Gigantoscorpio willsi*, a new scorpion from the Lower Carboniferous of Scotland and its associated preying microorganisms. *Skrifter Utgitt av det Norske Videnskaps-Akademi I Oslo. Mathematisk-Naturvidenskabelig Klasse*, 8: 1–171.

Størmer, L. 1969. Eurypterids from the Lower Devonian of Willwerath, Eifel. *Senckenbergiana lethaea*, 50: 21–35.

Størmer, L. 1970. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 1: Arachnida. *Senckenbergiana lethaea*, 51: 335–369.

Størmer, L. 1972. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 2: Xiphosura. *Senckenbergiana lethaea*, 53: 1–29.

Størmer, L. 1973. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 3: Eurypterida, Hughmilleridae. *Senckenbergiana lethaea*, 54: 119–205.

Størmer, L. 1974. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 4: Eurypterida, Drepanopteridae, and other groups. *Senckenbergiana lethaea*, 54: 359–451.

Størmer, L. 1976. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 5: Myriapoda and additional forms, with general remarks on the fauna and problems regarding invasion of land by arthropods. *Senckenbergiana lethaea*, 57: 87–183.

Størmer, L. & Waterston, C. D. 1968. *Cyrtoctenus* gen. nov., a large late Palaeozoic arthropod with pectinate appendages. *Transactions of the Royal Society Edinburgh*, 68: 63–104.

Strand, E. 1926. Miscellanea nomenclatorial zoological et palaeontologica. I–II. *Archiv für Naturgeschichte A*, 92(8): 30–75.

Strand, E. 1929. Zoological and palaeontological nomenclatorical notes. *Acta Universitatis Latviensis*, 20: 29 pp.

Strand, E. 1932. Miscellanea nomenklatorica zoologica et palaeontologica, III, IV. *Folia zoologica et hydrobioogica,* 4: 133–147, 193–196.

Strand, E. 1942. Miscellanea nomenclatorica zoologica et palaeontologica. *Folia Zoologica et Hydrobiologica*, 11: 386–402.

Straus, A. 1967. Zur Paläontologie des Pliozäns von Willershausen. *Berichte der Naturhistorischen Gesellschaft Hannover,* 111: 15–24.

Strenzke K. 1954. *Nematalychus nematoides* n. gen. n. sp. (Acarina, Trombidiformes) aus dem Grundwasser der algerischen Kuste. *Vie et Milieu,* 4: 638–647.

Strenzke, K. 1963. Entwicklung und Verwandschaftsbeziehungen der Oribatidengattung *Gehypochthonius* (Arach., Acari). *Senckenbergiana Biologica*, 44: 231–255.

Stumm, E. C. & Kjellesvig-Waering, E. N. 1962. A new eurypterid from the Upper Silurian of southern Michigan. *Contributions from the Museum of Paleontology, The University of Michigan*, 17: 195–204.

Stur, D. 1877. Die Culm-Flora der Ostrauer und Waldenburger Schichten. *Abhandlung der königliche geologische Reichanstalt*, 4: 5.

Subías, L. S. 2004. Listado sistemático, sinonímico y biogeográfico de los ácaros oribátidos (Acariformes: Oribatida) del mundo. Graellsia 60 (nuúmero extraordinario), 3–305. Available from: http://www.ucm.es/info/zoo/Artropodos/Catalogo.pdf.

Subías, L. S. & Arillo, A. 2002. Oribatid mite fossils from the Upper Devonian of South Mountain, New York and the Lower Carboniferous of County Antrim, Northern Ireland (Acariformes, Oribatida). *Estudios del Museo de Ciencias Naturales de Alava*, 17: 93–106.

Sundevall, J.C. 1833. *Conspectus Arachnidium*. C. F. Berling, Londini Gothorum, 39 pp.

Swartz, C. K. 1923. Order Eurypterida. 716–778. *In* Swartz, C. K., Prouty, W. F., Ulrich, E. O. & Bassler, R. S. (eds). *Silurian Volume.* Maryland Geological Survey, 795 pp.

Taczanowski, L. 1879. Les aranéides du Pérou central (suite). *Horae Societatis entomologicae Rossicae*, 15: 102–136.

Tasch, P. 1961. Paleolimnology: part 2 – Harvey and Sedgwick counties, Kansas: stratigraphy and biota. *Journal of Paleontology*, 35: 836–865.

Tasch, P. 1963. Paleolimnology: part 3 – Marion and Dickinson counties, Kansas, with additional sections in Harvey and Sedgwick counties: stratigraphy and biota. *Journal of Paleontology*, 37: 1233–1251.

Tesakov, A. S. & Alekseev, A.S. 1992. Myriapod-like arthropods from the Lower Devonian of central Kazakhstan. *Paleontological Journal*, 26: 18–23.

Tesakov, A. S. & Alekseev, A.S. 1998. *Maldybulakia* – new name for *Lophodesmus* Tesakov and Alekseev, 1992 (Arthropoda). *Paleontological Journal*, 32: 29.

Tetlie, O. E. 2002. A new *Baltoeurypterus* (Eurypterida: Chelicerata) from the Wenlock of Norway. *Norwegian Journal of Geology*, 82: 37–44.

Tetlie, O. E. 2006*a*. Two new Silurian species of *Eurypterus* (Chelicerata: Eurypterida) from Norway and Canada and the phylogeny of the genus. *Journal of Systematic Palaeontology* 4: 397–412.

Tetlie, O. E. 2006*b*. Eurypterida (Chelicerata) from the Welsh Borderlands, England. *Geological Magazine*, 143: 723–735.

Tetlie, O. E. & Braddy, S.J. 2004. The first Silurian chasmataspid, *Loganamaraspis dunlopi* gen. et sp. nov. (Chelicerata: Chasmataspidida) from Lesmahagow, Scotland, and its implications for eurypterid phylogeny. *Transactions of the Royal Society of Edinburgh, Earth Sciences*, 94: 227–234.

Tetlie, O. E. & Briggs, D. E. G. 2009. The origin of pterygotid eurypterids (Chelicerata: Eurypterida). *Palaeontology*, 52: 1141–1148.

Tetlie, O. E. & Dunlop, J. A. 2008. *Geralinura carbonaria* (Arachnida; Uropygi) from Mazon Creek, Illinois, USA, and the origin of subchelate pedipalps in whip scorpions. *Journal of Paleontology*, 82: 299–312.

Tetlie, O. E. & Van Roy, P. 2006. A reappraisal of *Eurypterus dumonti* Stainier, 1917 and its position within the Adelophthalmidae Tollerton, 1989. *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique, Sciences de la Terre* 76: 79–90.

Tetlie, O. E. & Poschmann, M. 2008. Phylogeny and palaeoecology of the Adelophthalmoidea (Arthropoda; Chelicerata; Eurypterida). *Journal of Systematic Palaeontology*, 6: 237–249.

Tetlie, O. E., Selden, P. A. & Ren D. 2007. A new Silurian eurypterid (Arthropoda: Chelicerata) from China. *Palaeontology*, 50: 619–625.

Tetlie O. E., Braddy, S. J., Butler, P.D. & Briggs, D.E.G. 2004. A new eurypterid (Chelicerata: Eurypterida) from the Upper Devonian Gogo Formation of Western Australia, with a review of the Rhenopteridae. *Palaeontology*, 47: 801–809.

Thevenin, A. 1901. Sur le découverte d'arachnides dans le Terrain Houiller de Commentry. *Bulletin de la Société Géologique de France, 4^{e} Série,* 1: 605–611.

Thevenin, A. 1902. Sur une araignée du terrain houiller der Valenciennes. *Procès-Verbaux de la Société d'Histoire Naturelle de Autun*, 15: 195–203.

Thompson, W. D'Arcy 1909. Pycnogonida. *In* Harmer, S. F. & Shipley, B. E. (eds). *The Cambridge Natural History*, pp. 501–542.

Thor, S. 1905. Eine interessante neue Milbengattung aus der schweizerischen Sammlung des Herrn Dr. W. Volz. *Zoologischer Anzeiger*, 28: 505–509.

Thor, S. 1911*a*. *Lebertia*-Studien XXIV–XXV. *Zoologischer Anzeiger*, 37: 385–394.

Thor, S. 1911*b*. Eine neue Acarinenfamilie (Teneriffiidae) und zwei neue Gattungen, die eine von Teneriffa, die andre aus Paraguay. *Zoologischer Anzeiger*, 38: 171–179.

Thor, S. 1927. Acarinologische Notizen. *Zoologischer Anzeiger*, 72: 155–159.

Thor, S. 1933. Über die prostigmatische Familie: Eupodidae C.L.Koch 1842 und über die Teilung dieser Familie, mit Definitionen der neuen Familien. *Zoologischer Anzeiger*, 101: 271–277.

Thor, S. 1934. Neue Beiträge zur Kenntnis der invertebraten Fauna von Svalbard. (Nach Sammlungen von Garteninspektor L. Lange, Dozent B. Lynge und dem Verfasser.). *Zoologischer Anzeiger*, 107: 114–139.

Thor, S. 1935. Übersicht und Einteilung der Familie Trombidiidae W.E. Leach 1814 in Unterfamilien. *Zoologischer Anzeiger*, 109: 107–112.

Thor, S. 1937. Übersicht der norwegischen *Cryptostigmata* mit einzelnen Nebenbemerkungen. *Saertrykk av Nytt Magasin for Naturvidenskapene*, 77: 275–307.

Thorell, T. 1856. Recensio critica Aranearum Suecicarum quas descripserunt Clerckius, Linnaeus, de Geerus. *Nova Acta Societas Scientiae Uppsalensis*, 2: 61–176.

Thorell, T. 1869. On European spiders. Part I. Review of the European genera of spiders, preceded by some observations on zoological nomenclature. *Nova Acta Societas Scientiae Uppsalensis*, (3)7: 1–108.

Thorell, T. 1870*a*. On European spiders. Part 2. *Nova Acta Societas Scientiae Uppsalensis*, (3)7: 109–242.

Thorell, T. 1870*b*. *Remarks on synonyms of European spiders. Part I.* Uppsala, pp. 1–96.

Thorell, T. 1873. *Remarks on synonyms of European spiders. Part IV.* Uppsala, pp. 375–645.

Thorell, T. 1875. Diagnoses Aranearum Europaearum aliquot novarum. *Tijdschrift voor Entomologie*, 18: 81–108.

Thorell, T. 1876*a*. Études Scorpiologiques. *Atti della Società Italiana di Scienze Naturali*, 19: 75–272.

Thorell, T. 1876*b*. On the classification of scorpions. *Annals and Magazine of Natural History, series 4*, 17: 1–15.

Thorell, T. 1876*c*. Sopra alcuni Opilioni (Phalangidea) dÈuropa e dell'Asia occidentale, con un quadro dei generi europei di quest'Ordine. *Annali del Museo Civico di Storia Naturale (Genoa) series 1*, 8: 452–508.

Thorell, T. 1881. Studi sui Ragni Malesi e Papuani. III. Ragni dell'Austro Malesia e del Capo York, conservati nel Museo civico di storia naturale di Genova. *Annali del Museo Civico di Storia Naturale di Genova*, 17: 1–727.

Thorell, T. 1882. Descrizione di Alcuni Aracnidi Inferiori dell' Arcipelago Malese. *Annali del Museo Civico di Storia Naturale di Genova*, 18: 21–69.

Thorell, T. 1887. Viaggio di L. Fea in Birmania e regioni vicine. II. Primo saggio sui ragni birmani. *Annali del Museo Civico di Storia Naturale di Genova*, 25: 5–417.

Thorell, T. 1888. Pedipalpi e Scorpioni dell'Arcipelago Malese conservati nel Museo Civico di Storia Naturale di Genova. *Annali del Museo Civico di Storia Naturale di Genova*, 26: 327–428.

Thorell, T. 1889. Viaggio di Leonardo Fea in Birmania e regioni vicine. XXI. Aracnidi Artrogastri Birmani raccolti da L. Fea nel 1885–1887. *Annali del Museo Civico di Storia Naturale di Genova*, 27: 521–729.

Thorell, T. 1890. Studi sui ragni Malesi e Papuani. Part IV, 1. *Annali del Museo Civico di Storia Naturale di Genova*, 28: 1–419.

Thorell, T. 1891. Spindlar från Nikobarerna och andra delar af södra Asien. *Bihang till Kongl. Svenska Vetenskaps-Akademiens Handlingar*, 24: 149 pp.

Thorell, T. & Lindström, G. 1884. Discovery of a Silurian fossil scorpion. *The Glasgow Herald*, Dec. 19, 1884.

Thorell, T. & Lindström, G. 1885. On a Silurian scorpion from Gotland. *Bihang till Kongl. Svenska Vetenskaps-Akademiens Handlingar*, 21(9): 1–33.

Tollerton, V. P., Jr. 1989. Morphology, taxonomy, and classification of the order Eurypterida Burmeister, 1843. *Journal of Paleontology*, 63: 642–657.

Trägårdh, I. 1902. Beiträge zur Kenntnis der schwedischen Acaridenfauna. *Bihang till Kongliga Svenska Vetenskaps-Akademiens Handlingar*, 28: 1–26.

Trägårdh, I. 1915. Bidrag till kännedomen om spinnkvalstren (*Tetranychus* Duf.). *Centralanstalten för försöksväsendet på jordbruksområdet. Entomologiska avdelningen*, 20: 1–60.

Trägårdh, I. 1946. Outlines of a new classification of the Mesostigmata (Acarina) based on comparative morphological data. *Lunds Universitets Arsskrift, N.F.* 42: ?-?

Trägårdh, I. 1950. Description of a new species of *Heterocheylus* Lombardini from Africa, with notes on the classification of the Pseudocheyletidae. *Entomologisk tidskrift*, 71: 104–110.

Travé, J. 1959. Sur le genre *Niphocepheus* Balogh 1943. Les Niphocepheidae, famille nouvelle (Acariens, Oribates). *Acarologia*, 1: 475–498.

Travé, J. 1967. *Phyllochthonius aoutii* nov. gen., nov. spec., un Enarthronota (Acarien, Oribate) nouveau de Côte d'Ivoire, avec la création d'une superfamille nouvelle, Phyllochthonoidea. *Zoologische Mededelingen*, 42: 83–105.

Treat, A. E. 1955. An ectoparasite (Acarina: Mesostigmata) from moths of the genus *Zale. Journal of Parasitology* 41: 555–561.

Türk, E. 1963. A new tyroglyphid deutonymph in amber from Chiapas, Mexico. *University of California Publications in Entomology*, 31: 49–51.

Ubick, D. & Dunlop, J. A. 2005. On the placement of the Baltic amber harvestman *Gonyleptes nemastomoides* Koch & Berendt, 1854, with notes on the phylogeny of Cladonychiidae (Opiliones, Laniatores, Travunioidea). *Mitteilungen aus dem Musuem für Naturkunde Berlin, Geowissenschaftliche Reihe* 8: 75–82.

Vachon, M. & Heyler, D. 1985. Déscription d'une nouvelle espèce de Scorpion: *Buthiscorpius pescei* (Stéphanien de Montceau-les-Mines, France). Remarques sur la classification des Scorpions (Arachnida) du Carbonifère. *Bulletin de la Société d'Histoire Naturelle d'Autun* 113: 29–47.

Vaillant, L. 1909. Observations paléontologiques faites dans les Sables éocènes landéniens aux environs d'Arras. *Bulletin de la Société Géologique de France, 4^{e} Ser.*, 9: 277–282.

Vandenberghe, A. 1960. *Pringlia demaisteri* nov. sp., un xiphosure (Chélicérate) du Stéphanién de la Loire. – *Bulletin de la Société géologique de France*, 7: 687–689.

Vercammen-Grandjean, P. H. 1973. Study of the "Erythraeidae, R.O.M. No. 8" of Ewing, 1937. 329–335. *In* Daniel, M. and Rosický, B. (eds). *Proceedings of the 3rd International Congress of Acarology*. Academia, Prague, 837 pp.

Via Boada, L. & Villalta, J. F. de 1966. *Hetrolimulus gadeai*, nov. gen., nov. sp., représentant d'une nouvelle famille de Limulacés dans le Trias d'Espagne. *Comtes Rendues Sommaire Séances Societé Géologique France*, 1966: 57–59.

Viets, K. O. 1978. New water mites (Hydrachnellae: Acari) from Australia. *Australian Journal of Marine and Freshwater Research*, 29: 77–92.

Villalta, J. F. 1957. Dos zoocecidias fósiles del Mioceno de Cerdaña (prov. de Lérida). *Cursillos y conferencias del Instituto Lucas Mallada*, 4: 63–64.

Vitzthum, H. Graf 1931. Acari=Milben. *In* Kukenthal, W. (ed.) *Handbuch der Zoologie, Vol. III 2. 3.* Walter de Gruyter & Co., Berlin, pp. 1–160.

Vitzthum, H. G. 1942. Acarina. *In Bronn's Klassen und Ordnungen des Tierreiches, IV. Abt., 5. Buch, 5. Lieferung* (1942), Leipzig, Akademische Verlagsgesellschaft Becker u. Erler: pp. 641–800.

Waddington, J. Rudkin, D. M. & Dunlop, J. A. 2015. A new mid-Silurian aquatic scorpion—one step closer to land? *Biology Letters*, 11: 20140815.

Wagner, W. A. 1887. Copulations organe des Männchens als Criterium für die Systematik der Spinnen. *Horae Societatis Entomologicae Rossicae*, 22: 3–132.

Walcott, C. D. 1882. Description of a new genus of the order Eurypterida from the Utica Slate. *American Journal of Science, 3rd Series*, 23: 213–216.

Walckenaer, C. A. 1802. *Faune parisienne. Insectes. Ou Histoire abregée des Insectes des environs de Paris.* Paris, 2: 187–250.

Walckenaer, C. A. 1805. *Tableau des Aranéides ou Caractères essentials des tribus, genres, familles et races que renferme le genre Aranea de Linné, avec la désignation des espèces comprises dans chacune de ces divisions.* Paris, 88 pp.

Walckenaer, C. A. 1826. Aranéides. *In* Faune française..., Paris: 96 pp.

Walckenaer, C. A. 1837. *Histoire naturelle des insects. Aptères. Vol. 1.* Librairie Encyclopédique de Roret, Paris, 682 pp.

Walker, N. A. 1965. Euphthiracaroidea of California Sequoia litter : with a reclassification of the families and genera of the world (Acarina: Oribatei). *Fort Hays Studies, New Series, Science Series,* 3: 154 pp.

Wallwork, J. A. 1963. The Oribatei (Acari) of Macquarie Island. *Pacific Insects*, 5: 721-769

Walossek, D., Li, C.S. & Brauckmann, C. 1990. A scorpion from the Upper Devonian of Hubei Province, China (Arachnida, Scorpiones). *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 1990(3): 169–180.

Waloszek, D. & Dunlop, J. A. 2002. A larval sea spider (Arthropoda: Pycnogonida) from the Upper Cambrian 'Orsten' of Sweden and the phylogenetic position of pycnogonids. *Palaeontology*, 45: 421–446.

Walter, D. E. 1997. Heatherellidae – a new family of Mesostigmata (Acari: Parasitiformes) based on two new species from rainforest litter in Australia. *International Journal of Acarology*, 23: 167–175.

Walter, D. E. 2000. A jumping mesostigmatan mite, *Saltiseius hunteri* n. g., n. sp. (Acari: Mesostigmata: Trigynaspida: Saltiseiidae, n. fam.) from Australia. *International Journal of Acarology*, 26: 25–31.

Walter, D. E. & Gerson, U. 1998. Dasythyreidae, new family, and *Xanthodasythyreus* n. g. (Acari: Prostigmata: Raphignathoidea) from Australia. *International Journal of Acarology*, 24: 189–197.

Walter, D. E. & Krantz, G. W. 1999. New early derivative mesostigmatans from Australia: *Nothogynus* n. g., Nothogynidae n. fam. (Mesostigmata: Microgyniina). *International Journal of Acarology*, 25: 67–76.

Wang, B., Dunlop, J. A., Selden, P. A. Garwood, R. J., Shear, W. A., Müller, P. & Lei, X.-j. 2018. Cretaceous arachnid *Chimerarachne yingi* gen. et sp. nov. illuminates spider origins. *Nature Ecology and Evolution*, 2: 614–622.

Waterston, C. D. 1962. *Pagea sturrocki* gen. et sp. nov., a new eurypterid from the Old Red Sandstone of Scotland. *Palaeontology*, 5: 137–148.

Waterston, C. D. 1964. Observations on pterygotid eurypterids. *Transactions of the Royal Society of Edinburgh*, 66: 9–33.

Waterston, C. D. 1968. Further observations on the Scottish Carboniferous eurypterids. *Transactions of the Royal Society of Edinburgh*, 68: 1–20.

Waterston, C. D. 1979. Problems of functional morphology and classification in stylonurid eurypterids (Chelicerata, Merostomata), with observations on the Scottish Stylonuroidea. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 70: 251–322.

Waterston, C. D. 1985. Chelicerata from the Dinantian of Fouldon, Berwickshire, Scotland. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 76: 25–33.

Waterston, C. D., Oelofsen, B. W. and Ooshuizen, R. D. F. 1985. *Cyrtoctenus wittebergensis* sp. nov. (Chelicerata: Eurypterida), a large sweep-feeder from the Carboniferous of South Africa. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 76: 339–358.

Watson, D. M. S. 1909. *Limulus woodwardi*, sp. nov., from the Lower Oolite of England. *Geological Magazine, New Series*, (5) 6: 14–15.

Waterlot, G. 1934. *Étude de la Faune continentale du Terrain houiller Sarro-Lorrain – Études des gîtes minéraux de al France. Bassin houiller de la Sarre et de la Lorraine II. Faune fossile*. Lille, 317 pp.

Weidner, H. 1964. Eine Zecke, *Ixodes succineus* sp. n. im Batischen Bernstein. *Veöffentlichunge aus dem Überseemuseum Bremen*, 3: 143–151.

Weitschat, W. & Wichard, W. 2002. *Atlas of plants and animals in Baltic amber.* Dr. F. Pfeil, Munich, 256 pp.

Westring, N. 1851. Förteckning öfver de till närvarande tid Kände, i Sverige förekommande Spindlarter, utgörande ett antal af 253, deraf 132 äro nya för svenska Faunan. *Göteborgs Kungliga Vetenskaps- och Vitterhets-Samhälles handlingar*, 2: 25–62.

Westwood, J. O. 1835. Insectorum Arachnoidumque novorum Decades duo. *The Zoological Journal, London*, 5: 440–453.

Westwood, J. O. 1874. *Thesaurus entomologicus oxoniensis.* Clarendon Press, Oxford, xx pp.

Weyenbergh, H., Jr 1869. Sur les insectes du calcaire jurassique de la Bavière, qui se trouvent au Musée Teyler. – Archives du Musée Teyler, Haarlem 2: 247–294.

Weyenbergh, H., Jr 1874. Notes sur quelques insectes du calcaire jurassique de la Bavière. *Archives Musée Teyler, Haarlem*, 3: 234–236.

Weygoldt, P. 1996. Evolutionary morphology of whip spiders: towards a phylogenetic system (Chelicerata: Arachnida: Amblypygi). *Journal of Zoological Systematics and Evolutionary Research*, 34: 185–202.

Weygoldt, P. & Paulus, H.F. 1979. Untersuchungen zur Morphologie, Taxonomie und Phylogenie der Chelicerata. *Zeitschrift für zoologische Systematik und Evolutionsforschung*, 17: 85–115, 177–200.

White, D. 1908. Report on the fossil flora of the Coal Measures of Brazil. 377–607. *In* White, J. C. (ed.). *Final report on the coal measures and associated rocks of South Brazil.* Commissão de Estudos das Minas de Carvão de Pedra Do Brazil, Rio de Janeiro.

Whiteaves, J. F. 1884. On some new, imperfectly characterized or previously unrecorded species of fossils from the Guelph Formations of Ontario. *Palaeozoic Fossils of Canada*, 3(1):1–43

Whitfield, R. P. 1882. Descriptions of new species of fossils from Ohio, with remarks on some of the geological formations in which they occur. *Annals of the New York Academy of Science*, 2: 193–244.

Whitfield, R. P. 1885*a*. An American Silurian scorpion. *Science*, 6: 87–88.

Whitfield, R. P. 1885*b*. On a fossil scorpion from the Silurian rocks of America. *Bulletin of the American Museum of Natural History*, 1(9): 181–190.

Wiles, P. R. 1996. A new family, genus and species of watermite (Acari: Hydrachnidia, Lebertioidea) from Brunei. *Quekett Journal of Microscopy*, 37: 692–695.

Williams, H. 1915. An eurypterid horizon in the Niagara Formation of Ontario. *Geological Survey of Canada, Museum Bulletin*, 20: 1–9.

Willmann, C. 1931b. Oribatei (Acari), gesammelt von der Deutschen Limnologischen Sunda-Expedition. *Archiv für Hydrobiologie*, Supplement-Band IX: 240–305.

Wills, L. J. 1910. On the fossiliferous Lower Keuper rocks of Worcestershire, with descriptions of some of the animals discovered therein. *Proceedings of the Geologists' Association*, 21: 249–331.

Wills, L. J. 1947. *A monograph of the British Triassic scorpions*. The Palaeontographical Society, London, 100 & 101: 137 pp.

Wills, L. J. 1959. The external anatomy of some Carboniferous "scorpions" Part 1. *Palaeontology*, 1: 261–282.

Wills, L. J. 1960. The external anatomy of some Carboniferous "scorpions". Part 2. *Palaeontology*, 3: 276–332.

Wilson, E. B. 1878. Descriptions of two new genera of Pycnogonida. *American Journal of Science*, 15: 200–203.

With, C. J. 1902. A new acaride *Opilioacarus segmentatus*. *Comptes Rendus du Congrès des Naturalistes et Médicins du Nord*, 20: 4–5.

With, C. J. 1906. The Danish expedition to Siam 1899–1900. III. Chelonethi. An account of the Indian false-scorpions together with studies on the anatomy and classification of the order. *Oversight over det Konigelige Danske Videnskabernes Selskabs Forhandlinger*, 7(3): 1–214.

Withers, R. B. 1933. A new genus of fossil king crabs. *Proceedings of the Royal Society of Victoria NS*, 45: 18–22.

Witaliński, W. 2000. *Aclerogamasus stenocornis* sp. n., a fossil mite from the Baltic amber (Acari: Gamasida: Parasitidae). *Genus*, 11: 619–626.

Wolff, R.J. 1990. A new species of *Thiodina* (Araneae: Salticidae) from Dominican amber. *Acta Zoologica Fennica*, 190: 405–408.

Womersley, H. 1956. On some new Acarina-Mesostigmata from Australia, New Zealand and New Guinea. *Zoological Journal of the Linnean Society of London*, 42: 505–599.

Womersley, H. 1957. A fossil mite (*Acronothrus ramus* n.sp.) from Cainozoic resin at Allendale, Victoria. *Proceedings of the Royal Society of Victoria*, 69: 21–23.

Wood, T. G. 1969. The Homocaligidae, a new family of mites (Acari: Raphignathoidea), including a description of a new species from Malaya and the British Solomon Islands. *Acarologia*, 11: 711–729.

Woodward, H. 1865. On a new genus of Eurypterida from the Lower Ludlow rock of Leintwardine, Shropshire. *Quarterly Journal of the Geological Society of London*, 21: 490–492.

Woodward, H. 1868*a*. On a new limuloid crustacean (*Neolimulus falcatus*) from the Upper Silurian of Lesmahagow, Lanarkshire. *Geological Magazine*, 5: 1–3.

Woodward, H. 1870. On *Necrogammarus salweyi* (H. Woodward), an amphipodus crustacean from the Lower Ludlow of Leintwardine. *Transactions of the Woolhope Naturalists Field Club*, 1870: 271–272.

Woodward, H. 1871*a*. On the remains of a giant isopod *Praearcturus gigas*, (H. Woodward) from the Old Red Sandstone of Rowlestone Quarry, Herefordshire. *Transactions of the Woolhope Field Naturalist's Club*, 1871: 266–270.

Woodward, H. 1871*b*. On the discovery of a new and very perfect Arachnide from the ironstone of the Dudley Coal-field. *Geological Magazine*, 8: 385–388.

Woodward, H. 1872*a*. Notes on some British Palaeozoic Crustacea belonging to the order Merostomata. *Geological Magazine*, 9: 433–441.

Woodward, H. 1872*b*. On a new Arachnide from the Coal-measures of Lancashire. *Geological Magazine*, 9: 385–387.

Woodward, H. 1876. On the discovery of a fossil scorpion in the British Coal Measures. *Quarterly Journal of the Geological Society of London* 32: 57–59.

Woodward, H. 1878*b*. Discovery of the remains of a fossil crab (Decapoda-Bracyura) in the Coal Measures of the Environs of Mons, Belgium. *Geological Magazine, new series, Decade 2*, 5: 433–436.

Woodward, H. 1879. Contributions to the knowledge of fossil Crustacea. *Quarterly Journal of the Geological Society London*, 35: 549–555.

Woodward, H. 1887. On a new species of *Eurypterus* from the Lower Carboniferous shales of Glencartholm, Eskdale, Scotland. *Geological Magazine, Decade 3*, 4: 481–484.

Woodward, H. 1888. Note on *Eurypterus* from the Carboniferous. *Geological Magazine, Decade 3*, 5: 419–421.

Woodward, H. 1907*a*. Two new species of *Eurypterus* from the Coal-Measures of Ilkeston, Derbyshire. *Geological Magazine*, 4: 277–282.

Woodward, H. 1907*b*. Further notes on the Arthropoda of the British Coal Measures. *Geological Magazine*, 4: 539–549.

Woodward, H. 1918. Fossil arthropods from the Carboniferous rocks of Cape Breton, Nova Scotia; and from the Upper Coal Measures, Sunderland, England. *Geological Magazine*, 5: 462–471.

Woolley, T. A. 1969. Two new species of *Hydrozetes*, extant and fossil (Acari: Cryptostigmata, Hydrozetidae). *New York Entomological Society*, 77: 250–256.

Woolley, T. A. 1971. Fossil oribatid mites in amber from Chiapas, Mexico (Acarina: Oribatei = Cryptostigmata). *University of California Publications in Entomology*, 63: 91–99.

Woolley, T. A. & Higgins, H. G. 1966. Xenillidae, a new family of oribatid mites (Acari: Cryptostigmata). *Journal of the New York Entomological Society*, 74: 201–221.

Woolley, T. A. & Higgins, H. G. 1968. Megeremaeidae: A New Family of Oribatid Mites (Acari: Cryptostigmata). *Great Basin Naturalist*, 28(4): 172–175.

Wright, D. F. & Selden, P. A. 2011. A trigonotarbid arachnid frm the Pennsylvanian of Kansas. *Journal of Paleontology*, 85: 871–876.

Wunderlich, J. 1981. Fossile Zwergsechsaugenspinnen (Oonopidae) der Gattung *Orchestina* Simon, 1882 in Bernstein mit Anmerkungen zur Sexual-biologie (Arachnida: Araneae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 51: 83–113.

Wunderlich, J. 1982. Die häufigsten Spinnen (Araneae) des Dominikanischen Bernsteins. *Neue Entomologische Nachrichten*, 1: 26–45.

Wunderlich, J. 1985. Ein bisher unbekannte fossile Krabbenspinne aus dem Randecker Maar in Südwest-Deutschland (Arachnida: Araneae: Thomisidae). *Neue Entomologische Nachrichten*, 14: 4–13.

Wunderlich, J. 1986. *Spinnenfauna Gestern und Heute. Fossile Spinnen in Bernstein und ihre heute lebenden Verwandten.* Erich Bauer Verlag bei Quelle und Meyer, Wiesbaden, 283 pp.

Wunderlich, J. 1987. *Tama minor* n. sp., eine fossile Spinnenart der Familie Hersiliidae in Dominikanischem Bernstein (Arachnida: Araneae). *Entomologische Zeitschrift*, 97: 93–96.

Wunderlich, J. 1988. Die fossilen Spinnen im dominikanischen Bernstein. *Beiträge zur Araneologie*, 2: 1–378.

Wunderlich, J. 1991. Beschreibung der ersten fossilen Spinne der Familie Leptonetidae: *Eoleptona kutscheri* n. gen., n. sp. in Sächsischem Bernstein (Arachnida: Araneae). *Entomologische Zeitschrift*, 101: 21–26.

Wunderlich, J. 1993*a*. Die ersten fossilen Speispinnen (Fam. Scytodidae) im Baltischen Bernstein (Arachnida: Araneae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 75: 243–247.

Wunderlich, J. 1993*b*. Die ersten fossilen Becherspinnen (Fam. Cyatholipidae) in Baltischem und Bitterfelder Bernstein (Arachnida: Araneae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 75: 231–241.

Wunderlich, J. 1998. Beschreibung der ersten fossilen Spinnen der Unterfamilien Mysmeninae (Anapidae) und Erigoninae (Linyphiidae) im Dominikanischen Bernstein (Arachnida: Araneae). *Entomologische Zeitschrift*, 108: 363–367.

Wunderlich, J. 2000. Zwei neue Arten der Familie Falltürspinnen (Araneae: Ctenizidae) aus dem Baltischen Bernstein. *Entomologische Zeitschrift*, 110: 345–348.

Wunderlich, J. 2004*a*. Introduction, general findings and conclusions. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 5–329.

Wunderlich, J. 2004*b*. The fossil mygalomorph spiders (Araneae) in Baltic and Dominican amber and about extant members of the family Micromygalidae. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 595–631.

Wunderlich, J. 2004*c*. Fossil spiders (Araneae) of the superfamily Dysderoidea in Baltic and Dominican amber, with revised family diagnoses. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 633–746.

Wunderlich, J. 2004*d*. Fossil and extant spiders (Araneae) of the superfamily Eresoidea s.l., with special reference to the Archaeidae and remarks on some higher taxa of the superfamily Araneoidea. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 747–808.

Wunderlich, J. 2004*e*. On selected higher and lower taxa of fossil and extant spiders of the superfamily Oecobioidea, with a provisional Cladogram (Araneae: Hersiliidae and Oecobiidae). *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 809–848.

Wunderlich, J. 2004*f*. Fossil spiders of the family Uloboridae (Araneae) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 851–886.

Wunderlich, J. 2004*g*. The fossil spiders of the family Deinopidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 887–897.

Wunderlich, J. 2004*h*. The fossil spiders (Araneae) of the families Tetragnathidae and Zygiellidae n. stat. in Baltic and Dominican amber, with notes on higher extant and fossil taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 899–955.

Wunderlich, J. 2004*i*. Fossil taxa of the family Araneidae (Araneae) inclusively Nephilinae in Baltic and Dominican amber, with the description of a new extinct subfamily and notes on selected extant taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 956–997.

Wunderlich, J. 2004*j.* The fossil Theridiosomatidae (Araneae) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 998–1019.

Wunderlich, J. 2004*k*. The fossil spiders of the family Anapidae s. l. (Aeaneae [*sic*]) in Baltic, Dominican and Mexican amber and their extant relatives, with the description of a new subfamily Comarominae. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1020–1111.

Wunderlich, J. 2004*l*. On the relationships of the families of the superfamily Araneoidea (Araneae) and their kin, with cladograms, remarks on the origin of the orb web and description of the new and extinct families Baltsuccinidae and Protheridiidae in Tertiary Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1112–1154.

Wunderlich, J. 2004*m*. The fossil spiders (Araneae) of the family Cyatholipidae in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1155–1188.

Wunderlich, J. 2004*n*. The fossil spiders (Araneae) of the family Synotaxidae in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1189–1239.

Wunderlich, J. 2004*o*. Remarks on the fossil spiders (Araneae) of the family Nesticidae in amber, with the description of a new species in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1240–1244.

Wunderlich, J. 2004*p*. Remarks on fossil spiders (Araneae) of the family Theridiidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1245–1248.

Wunderlich, J. 2004*q*. Fossil pirate spiders (Araneae: Araneoidea: Mimetidae s. l.) in Baltic and Dominican amber, with notes on intrafamiliar higher taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1249–1278.

Wunderlich, J. 2004*r*. Descriptions of the first fossil spiders (Araneae) of the family Pimoidae in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1279–1297.

Wunderlich, J. 2004*s*. The fossil spiders of the family Linyphiidae in Baltic and Dominican amber (Araneae: Linyphiidae). *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1298–1373.

Wunderlich, J. 2004*t*. No proof of fossil spiders (Araneae) of the family Psechridae in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1375–1376.

Wunderlich, J. 2004*u*. Fossil spiders of the family Amaurobiidae (Arachnida: Araneae) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). Beiträge zur Araneologie, 3: 1377–1379.

Wunderlich, J. 2004*v*. Fossil spiders of the family Dictynidae *s. l*., including Cryphoecinae and Hahniinae in Baltic and Dominican amber and copal from Madagascar, and on selected extant Holarctic taxa, with new descriptions and diagnoses. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1380–1482.

Wunderlich, J. 2004*w*. Fossil spiders (Araneae) of the family Agelenidae s. str. in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1483–1488.

Wunderlich, J. 2004*x*. The fossil Zoropsidae in Baltic amber with revised diagnoses of the family Zoropsidae and its fossil and extant higher taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1489–1522.

Wunderlich, J. 2004*y*. Spiders (Araneae) of the extinct family Insecutoridae Petrunkevitch 1942 in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1523–1531.

Wunderlich, J. 2004*z*. Fossil spiders of the family Pisauridae (Araneae) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1532–1541.

Wunderlich, J. 2004*aa*. Members of the family Trechaleidae (Araneae) in Baltic and Dominican amber? *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1542–1553.

Wunderlich, J. 2004*ab*. Fossil spiders (Araneae) of the family Oxyopidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1554–1556.

Wunderlich, J. 2004*ac*. Proof of presence of the family Lycosidae (Araneae) in Baltic and Dominican amber? *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1557–1558.

Wunderlich, J. 2004*ad*. Fossil spiders (Araneae) of the extinct family Ephalmatoridae Petrunkevitch 1950 in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1559–1577.

Wunderlich, J. 2004*ae*. Fossil spiders (Araneae) of the family Zodariidae in Baltic amber, with remarks on their subfamilies including the Cryptothelinae and the Homalonychinae. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1578–1611.

Wunderlich, J. 2004*af*. Fossil spiders (Araneae) of the families Clubionidae and Miturgidae (questionable) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1612–1622.

Wunderlich, J. 2004*ag*. The fossil spiders of the family Liocranidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1623–1635.

Wunderlich, J. 2004*ah*. Fossil spiders of the family Corinnidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1636–1680.

Wunderlich, J. 2004*ai*. Fossil spiders (Araneae) of the family Gnaphosidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1681–1685.

Wunderlich, J. 2004*aj*. Fossil spiders (Araneae) of the family Anyphaenidae in Baltic and Dominic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1686-1688.

Wunderlich, J. 2004*ak*. Members of the family Philodromidae (Araneae) in Baltic amber? *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1689–1693.

Wunderlich, J. 2004*al*. Fossil spiders (Araneae) of the family Sparassidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1694–1698.

Wunderlich, J. 2004*am.* Fossil spiders of the family Trochanteriidae (Araneae) in Baltic, Dominican and Mexican amber, with a revision of the genus *Sosybius* Koch and Berendt 1854. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1699–1732.

Wunderlich, J. 2004*an.* Fossil spiders of the family Selenopidae in Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1733–1736.

Wunderlich, J. 2004*ao.* The new spider (Araneae) family Borboropactidae from the tropics and fossil in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1737–1746.

Wunderlich, J. 2004*ap*. Fossil crab spiders (Araneae: Thomisidae) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1747–1760.

Wunderlich, J. 2004*aq.* Fossil jumping spiders (Araneae: Salticidae) in Baltic and Domican amber, with remarks on Salticidae subfamilies. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1761–1819.

Wunderlich, J. 2004*ar.* Fossil spiders (Araneae) in Early Tertiary amber from the Ukraine. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1821–1829.

Wunderlich, J. 2004*as*. Subrecent spiders (Araneae) in copal from Madagascar, with description of new species. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1830–1853.

Wunderlich, J. 2004*at*. Two new fossil spider species in Copal from Colombia (Araneae: Oonopidae and Dictynidae). *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1854–1859.

Wunderlich, J. 2004*au*. Description of two fossil taxa of spiders (Araneae: Oonopidae, Pholcidae) in Chinese amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1860–1863.

Wunderlich, J. 2004*av*. Report on spider (Araneae) of the families Araneidae and Zygiellidae in Lebanese amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1864–1865.

Wunderlich, J. 2006. *Spatiator martensi* n. sp., a second species of the extinct spider species Spatiatoridae in Eocene Baltic amber. *Zootaxa*, 1325: 313–318.

Wunderlich, J. 2008*a*. Descriptions of fossil spider (Araneae) taxa mainly in Baltic amber, as well as certain related extant taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 5: 44–139.

Wunderlich, J. 2008*b*. On extant and fossil (Eocene) European comb-footed spiders (Araneae: Theridiidae), with notes on their subfamilies, and with descriptions of new taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 5: 140–469.

Wunderlich, J. 2008*c*. On extant and fossil members of the RTA-clade in Eocene European ambers of the families Borboropactidae, Corinnidae, Selenopidae, Sparassidae, Trochanteriidae, Zoridae *s. l.*, and of the superfamily Lycosoidea. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 5: 470–523.

Wunderlich, J. 2008*d*. The dominance of ancient spider families of the Araneae: Haplogyne in the Cretaceous, and the late diversification of advanced ecribellate spiders of the Entelegynae after the Cretaceous–Tertiary boundary extinction events, with descriptions of new families. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 5: 524–675.

Wunderlich, J. 2011*a*. On extant European spiders of the tribe Mangorini (Araneae: Araneidae) and two doubful taxa in Baltic amber. *Beiträge zur Araneologie*, 6: 9–18.

Wunderlich, J. 2011*b*. Taxonomy of extant and fossil (Eocene) European ground spiders of the family Gnaphosidae (Araneae), with a key to the genera, and discriptions of new taxa. *Beiträge zur Araneologie*, 6: 19–97.

Wunderlich, J. 2011*c*. Spiders of the family Prodidomidae (Araneae) from Europe and Madagascar. *Beiträge zur Araneologie*, 6: 98–107.

Wunderlich, J. 2011*d*. On extant and fossil (Eocene) Holarctic sac spiders (Araneae: Clubionidae), with descriptions of new taxa. *Beiträge zur Araneologie*, 6: 121–157.

Wunderlich, J. 2011*e*. New extant taxa of the spider family Theridiosomatidae (Araneae) from Laos and on some fossil taxa. *Beiträge zur Araneologie*, 6: 427–444.

Wunderlich, J. 2011*f*. Some subrecent spiders (Araneae) in copal from Madagascar. *Beiträge zur Araneologie*, 6: 445–460.

Wunderlich, J. 2011*g*. Some fossil spiders in Dominican amber (Araneae: Hersiliidae, Theridiidae, Gnaphosidae). *Beiträge zur Araneologie*, 6: 461–471.

Wunderlich, J. 2011*h*. Some fossil spiders (Araneae) in Eocene European ambers. *Beiträge zur Araneologie*, 6: 472–538.

Wunderlich, J. 2011*i*. Some fossil spiders (Araneae) in Cretaceous ambers. *Beiträge zur Araneologie*, 6: 539–557.

Wunderlich, J. 2012*a*. New subrecent species in copal from Madagascar, and on the relationships of the Copaldictyninae Wunderlich 2004 (Araneae: Linyphiidae, Theridiidae, Dictynidae, and Titanoecidae). *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 75–88.

Wunderlich, J. 2012*b*. New fossil spiders (Araneae) in Eocene amber from the Ukraine. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 89–93.

Wunderlich, J. 2012*c*. New fossil spiders (Araneae) of eight families in Eocene Baltic amber, and revisions of selected taxa. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 94–149.

Wunderlich, J. 2012*d*. On the fossil spider (Araneae) fauna in Cretaceous ambers, with descriptions of new taxa from Burmese (Burma) and Jordan, and on the relationships of the superfamily Leptonetoidea. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 157–232.

Wunderlich, J. 2012*e*. Description of the first fossil Ricinulei in amber from Burma (Burmese), the first report of this arachnid order from the Mesozoic and from Asia, with notes on the related extinct order Trigonotarbida. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 233–244.

Wunderlich, J. 2012*f*. Corrections and addenda to vol. 6 of the Beitr. Araneol. (2011). *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 245–246.

Wunderlich, J. 2015*a*. Description of an unusual fossil crab spider (Araneae: Thomisidae s. l.: Stephanopinae) in Eocene Baltic Amber. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 7–14.

Wunderlich, J. 2015*b*. On the evolution and the classification of spiders, the Mesozoic spider faunas, and descriptions of new Cretaceous taxa mainly in amber from Myanmar (Burma) (Arachnida: Araneae). *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 21–408.

Wunderlich, J. 2015*c*. New and rare fossil Arachnida in Cretaceous Burmese Amber (Amblypygi, Ricinulei and Uropygi: Thelephonida). *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 409–436.

Wunderlich, J. 2017*a*. New fossil spiders of three families in Eocene Baltic amber and Bitterfeld amber, with notes on phylogeny and relationships of the Zoropsidae (Araneae: Anapidae, Spatiatoridae and Zoropsidae). *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 10: 14–47.

Wunderlich, J. 2017*b*. New extinct taxa of the arachnid order Ricinulei, based on new fossils preserved in mid Cretaceous Burmese amber. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 10: 48–71.

Wunderlich, J. 2017c. New and rare fossil spiders (Araneae) in mid Cretaceous amber from Myanmar (Burma), including the description of new extinct families of the suborders Mesothelae and Opisthothelae as well as notes on the taxonomy, the evolution and the biogeography of the Mesothelae. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 10: 72–279.

Wunderlich, J. 2017*d*. Description of a derived spider taxon in Ethiopian amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 10: 280–284.

Wunderlich, J. 2019. What is a spider? Cretaceous fossils modify strongly phylogenetics as well as diagnoses of families, superfamilies and even suborders of spiders (Araneida) and other arthropods. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 12: 1–32.

Wunderlich, J. & Milki, R. 2004. Description of the extinct new subfamily Microsegestriinae (Araneae: Segestriidae) in Cretaceous Lebanese Amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1867–1873.

Wunderlich, J. & Müller, P. 2018. Fossil spiders (Araneae) in Cretaceous Burmese amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 11: 1–167.

Żabka, M. 1988. Fossil Eocene Salticidae (Araneae) from the collection of the Museum of Earth in Warsaw. *Annales Zoologici*, 41: 415–420.

Zacharda, M. 1979. Strandtmanniidae – a new family of Eupodoidea (Acarina : Prostigmata). *Vestník Ceskoslovenské Spolecnosti Zoologické*, 43: 76–81.

Zacharda, M. & Krivoluckij, D. A. 1985. Prostigmatic mites (Acarina: Prostigmata) from the Upper Cretaceous and Paleogene amber of the USSR. *Věstník Československé Společnosti Zoologické*, 49: 147–152.

Zachvatkin, A. A. 1952. [The division of the Acarina into orders and their position in the system of the Chelicerata.] *Parazitologicheskii Sbornik Zoologicheskii Institut Akademii Nauk SSSR*, 14: 5–46. [in Russian]

Zapfe, H. 1955. Filogenia y función en *Austrochilus manni* Gertsch y Zapfe (Araneae-Hypochilidae). *Trabajos del Laboratorio de Zoología de la Universidad de Chile*, 2: 1–53.

Zhang, J., Sun, B. & Zhang, X. 1994. *Miocene insects and spiders from Shanwang, Shandong.* Science Press, Beijing, 298 pp. [in Chinese with English Summary].

Zhang, Q.-y., Hu, S.-x., Zhou, C.-y., Iv, T. & Bai, J.-k. (2009): [New occurrence of Xiphosura in China.] *Progress in Nature Science*, 19: 1090–1093. [in Chinese]

Zhang, Z.-Q. 1998: An unusual early-derivative larva of Parasitengona (Acari: Prostigmata) and proposal of a new superfamily. *Systematic & applied acarology*, 3: 159–170.

Zhang, Z.-Q. & Fan, Q.-H. 2007. Allotanaupodidae, a new family of early derivative Parasitengona (Acari: Prostigmata). *Zootaxa*, 1517: 1–52.

Zinken, C. 1862. *Limulus Decheni* aus dem Braunkohlensandstein bei Teuchern. *Zeitschrift für die Gesammten Naturwissenschaften*, 19: 329–331.

Zittel, K. A. 1885. *Handbuch der Palaeontologie. I. Abtheilung, Palaeozoologie, 2 [Mollusca und Arthropoda].* R, Oldenbourg, München, Leipzig, 893 pp.

Zittel, K. A. & Eastman, C. R. 1913. *Textbook of Palaeontology (2nd Ed.) 1.* Macmillan, London, 839 pp.

Zuber, M., Laaß, M., Hamann, E., Kretschmer, S., Hauschke, N., van de Kamp, T., Baumbach, T.& Koenig, T. 2017. Augmented laminography, a correlative 3D imaging method for revealing the inner structure of compressed fossils. *Scientific Reports*, 7: 41413.