

laevicolle LeConte, 1866: 375 (*Amphichroum*; Type locality: Lycoming County, Pennsylvania).

— Fauvel, 1878d: 238 [= 1878e: 74] (*Amphichroum*; characters; Pennsylvania).

— Casey, 1894: 414 (*Pelecomalium*).

— Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).

— Downie and Arnett, 1996: 432 (*Pelecomalium*; characters; USA).

▲ **DISTRIBUTION:** USA.

modestum Casey, 1886, see: *veterator* Casey, 1886.

nigrum Hatch, 1957 [**Note: Nomen nudum**], see: *testaceum* Mannerheim, 1843.

opaculum Fauvel, 1878d: 241 [= 1878e: 77] (*Amphichroum*; Type locality: California, Mariposa).

— Casey, 1894: 414 (*Pelecomalium*).

— Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).

— Hatch, 1957: 56 (*Pelecomalium*; characters; Washington).

▲ **DISTRIBUTION:** USA.

pallior Hatch, 1957: 56 (*Pelecomalium*; aberration of *opaculum*; [**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; locality cited: Seattle, Washington).

pallidum Casey, 1894: 415 (*Pelecomalium*; Type locality: California: Lake Tahoe; Nevada: Reno).

— Casey, 1894: 414 (*Pelecomalium*).

— Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).

▲ **DISTRIBUTION:** USA.

pallior Hatch, 1957 [**Note: Nomen nudum**], see: *opaculum* Fauvel, 1878.

pilosellum Casey, 1886: 237 (*Amphichroum*; Type locality: California: Lake Co.).

— Casey, 1894: 414 (*Pelecomalium*).

— Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).

▲ **DISTRIBUTION:** USA.

puberulum Fauvel, 1878d: 240 [= 1878e: 76] (*Amphichroum*; Type locality: California, San Diego).

— Casey, 1894: 414 (*Pelecomalium*).

— Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).

— Hatch, 1957: 55 (*Pelecomalium*; characters; British Columbia; Washington; Oregon; Idaho).

▲ **DISTRIBUTION:** Canada, USA.

ruficeps Motschulsky, 1860, see: *Anthophagus*.

scutatum Fauvel, 1878d: 238 [= 1878e: 74] (*Amphichroum*; Type locality: California, Mariposa).

— Casey, 1894: 414 (*Pelecomalium*).

— Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).

▲ **DISTRIBUTION:** USA.

sparsum Fauvel, 1878d: 237 [= 1878e: 73<†125>] (*Amphichroum*; Type locality: California, Mariposa).

— Casey, 1894: 413 (*Pelecomalium*).

— Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).

▲ **DISTRIBUTION:** USA.

testaceum Mannerheim, 1843b: 234 (*Arpedium*; [**Note: Cited with Eschscholtz as author**]; Type locality: insula Sitkha).

— Fauvel, 1878d: 239 [= 1878e: 75] (*Amphichroum*; characters; Alaska; British Columbia; California).

— Casey, 1894: 413 (*Pelecomalium*).

— Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).

— Van Dyke, 1924: 16 (*Amphichroum*; subgenus *Pelecomalium*; Alaska).

- Fall, 1926: 145 (*Pelecomalium*; Alaska).
- Hatch, 1957: 55 (*Pelecomalium*; characters; British Columbia; Washington; Oregon).
- ▲ **DISTRIBUTION:** Canada, USA.

- binotatum* Casey, 1886: 242 (*Pelecomalium*; Type locality: California: Marin Co.).
- Casey, 1894: 413 (*Pelecomalium*).
- Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; cited as *binotatum*; catalog).
- Hatch, 1957: 55 (*Pelecomalium*; aberration of *testaceum*; characters).

- nigrum* Hatch, 1957: 55 (*Pelecomalium*; aberration of *testaceum*; [Note: **Nomen nudum** (Articles 1.3.4, 45.5)]; localities cited: Washington, British Columbia, Washington, Oregon).

- veterator** Casey, 1886: 238 (*Amphichroum*; Type locality: California: Lake Co.).
- Casey, 1894: 414 (*Pelecomalium*; synonym of *modestum*).
- Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; catalog).
- ▲ **DISTRIBUTION:** USA.

- modestum* Casey, 1886: 242 (*Pelecomalium*; Type locality: California: Lake Co.).
- Casey, 1894: 414 (*Pelecomalium*).
- Bernhauer and Schubert, 1910: 75 (*Pelecomalium*; synonym of *veterator*).

Philorinum

[9 species; Palaearctic, Ethiopian, and Oriental Regions]

- Philorinum* Kraatz, 1857d: 965 (species included: *humile*, *nitidulum*). **TYPE SPECIES:** *Omalium humile* Erichson, fixed by subsequent designation by Jacquelin du Val, 1868: 80.
- Redtenbacher, 1857: 992 (characters).
- G. Waterhouse, 1858: 31 (catalog of British species).
- Schaum, 1859: 32 (catalog; European species).
- Wencker and Silbermann, 1866: 36 (list of species; collecting notes; France).
- Gemminger and Harold, 1868: 663 (catalog).
- Fauvel, 1871a: 109 [= 1872: 83] (characters).
- Sharp, 1871d: 14 (list of British species).
- Redtenbacher, 1874: 272 (characters).
- Fauvel, 1875a: VI [= 1875b: 208] (catalog).
- Mulsant and Rey, 1880: 153 (characters).
- Fowler, 1888: 408 (notes; cited as *Philorhinum*).
- Heyden, Reitter, and Weise, 1891: 119 (list of species of Europe and Caucasus).
- Ganglbauer, 1895: 727 (characters).
- Heyden, Reitter, and Weise, 1906: 132 (list of species of Europe and Caucasus).
- Bernhauer and Schubert, 1910: 61 (world catalog; 3 species).
- Petri, 1912: 54 (list of species of Siebenbürgen).
- Winkler, 1925: 332 (catalog for Palaearctic region).
- Cameron, 1925: 11 (catalog of Indian species).
- Porta, 1926: 28 (characters; key to species of Italy).
- Portevin, 1929: 442 (characters; key to French species).
- Cameron, 1930: 148 (cited as *Philorhinum*; characters).
- Joy, 1932: 103 (key to British species).
- Scheerpeltz, 1933: 1052 (world catalog supplement).
- Normand, 1935: 357 (list of species of Tunisia).
- Kloet and Hincks, 1945: 161 (list of British species).
- Tottenham, 1949: 356, 407 (type species: *sordidum* Stephens = *humile* Erichson; list of British species).
- Tottenham, 1954: 28 (characters; British species).
- Kocher, 1958: 94 (checklist of species; Morocco).
- Ferreira, 1962a: 9 (list of Portuguese species).
- Horion, 1963: 96 (list of central European species).
- Székessy, 1963: 18 (characters).

- Lohse, 1964: 48 (characters; key to central European species).
- Scheerpeltz, 1968a: 12 (catalog of Austrian species).
- Steel, 1970a: 16 (larval characters; biological notes).
- Tikhomirova, 1973a: 139 (checklist of species of USSR).
- Pope, 1977: 24 (list of British species).
- Topp, 1978: 308 (larval characters).
- Tóth, 1982: 73 (characters; habitus).
- Zanetti, 1987: 326 (characters; habitus; key to species of Italy).
- Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
- Welch, 1993 (ovariole structure and development).
- Boháč, 1993: 41 (in list of species of Czech Republic and Slovakia).
- Zanetti, 1995: 8 (list of species of Italy).
- M. Hansen, Liljehult, Mahler, and Pedersen, 1995: 27 (additional records to Danish list of species).
- M. Hansen, 1996: 95 (list of Danish species).
- M. Hansen, Mahler, Palm, and Pedersen, 1996: 240 (additions to list of Danish species).

afghanicum Coiffait, 1982b: 80 (*Philorinum*; Type locality: Afghanistan: Nouristan, Kamdesch, 2200 m).

▲ **DISTRIBUTION:** Afghanistan.

africanum Bernhauer, 1912f: 178 (*Philorinum*; Type locality: Usambara).

— Scheerpeltz, 1933: 1052 (*Philorinum*; catalog).

▲ **DISTRIBUTION:** Tanzania.

brevipenne Luze, 1910, see: *sordidum* Stephens, 1834.

cadomense Fauvel, 1863, see: *sordidum* Stephens, 1834.

chinense Jarrige, 1948: 39 (*Philorinum*, cited as *Philorhinum*; Type locality: Yunnan: Pe-Yen-Tsing).

▲ **DISTRIBUTION:** China.

floricola Champion, 1920, see: *florivagum* Champion, 1923.

floricola Wollaston, 1864: 602 (*Philorinum*; Type locality: Grand Canary. Teneriffe: above Agua Mansa; Yeod el Alto; Agua Garcia; Taganana. Palma. Hierro).

— Wollaston, 1865: 521 (*Philorinum*; habitat; notes; Canary Islands).

— Fauvel, 1902b: 55 (*Philorinum*; synonym of *sordidum*).

— Bernhauer and Schubert, 1910: 61 (*Philorinum*; catalog).

— Hernández, Outerelo, and Gamarra, 1994: 187 (*Philorinum*; Canary Islands).

— Assing and Wunderle, 1999: 437 (*Philorinum*; Canary Islands).

▲ **DISTRIBUTION:** Canary Islands.

florivagum Champion, 1923: 80 (*Philorhinum*; replacement name for *floricola* Champion).

— Cameron, 1930: 149 (*Philorinum*, cited as *Philorhinum*; characters; India).

— Scheerpeltz, 1933: 1052 (*Philorinum*; catalog).

— Scheerpeltz, 1960: 1 (*Philorinum*; Pakistan; Afghanistan).

— Coiffait, 1984: 118 (*Philorinum*).

▲ **DISTRIBUTION:** India, Pakistan, Afghanistan.

floricola Champion, 1920: 242 (*Philorhinum*; [**preoccupied**]; Type locality: W. Almora in Kumaon; Siuni Gad, Garhwal, alt. 4000 ft.).

— Cameron, 1930: 149 (*Philorinum*; synonym of *florivagum*).

— Scheerpeltz, 1933: 1052 (*Philorinum*; synonym of *florivagum*).

hopffgarteni Eppelsheim, 1892a: 297 (*Philorinum*; Type locality: Siebenbürgen; Griechenland, Morea).

— Ganglbauer, 1895: 728 (*Philorinum*; characters; Siebenbürgen; Greece).

— Bernhauer and Schubert, 1910: 61 (*Philorinum*; variety of *sordidum*).

— Tóth, 1982: 74 (*Philorinum*; cited as valid species; characters).

▲ **DISTRIBUTION:** Romania, Greece.

humile Erichson, 1840, see: *sordidum* Stephens, 1834.

maroccanus Coiffait, 1978, see: *sordidum* Stephens, 1834.

myops Haliday, 1841, see: *sordidum* Stephens, 1834.

nigriventre Rosenhauer, 1856, see: *sordidum* Stephens, 1834.

nitidulum Kraatz, 1857, see: *sordidum* Stephens, 1834.

pallidicorne Fairmaire, 1860a: 629 (*Philorinum*; Type locality: Corse).

— Fauvel, 1871a: 110 [= 1872: 84] (*Philorinum*; characters; Corsica).

— Fauvel, 1902b: 56 (*Philorinum*; Tunisia).

— Sainte-Claire Deville, 1906: 70 (*Philorinum*; Corsica).

— Bernhauer and Schubert, 1910: 61 (*Philorinum*; catalog).

— Portevin, 1929: 443 (*Philorinum*; characters; France).

— Scheerpeltz, 1933: 1052 (*Philorinum*; catalog).

— Normand, 1947a: 5 (*Philorinum*; Tunisia).

— Zanetti, 1987: 329 (*Philorinum*; characters; Italy).

— Zanetti, 1995: 8 (*Philorinum*; Italy).

▲ **DISTRIBUTION:** Spain, France, Italy, Tunisia.

pilosulum Stephens, 1834, see: *sordidum* Stephens, 1834.

ruficolle Schaufuss, 1861, see: *sordidum* Stephens, 1834.

simplex Smetana, 1975c: 158 (*Philorinum*; Type locality: Mongolie: Bajanchongor aimak: Cagan Bogd ul Gebirge, Quelle Tooroin bulag, 13 km O vom Grenzposten Caganbulag im Cagan Bogd ul Gebirge, 1500 m).

▲ **DISTRIBUTION:** Mongolia.

sordidum Stephens, 1834: 349 (*Omalium*; Type locality: London).

— Stephens, 1839: 428 (*Omalium*; characters; England).

— G. Waterhouse, 1858: 31 (*Philorinum*; synonym of *humile*).

— Fauvel, 1871a: 110 [= 1872: 84] (*Philorinum*; characters; France; Urals; Britain; Germany; Austria; Greece; Madeira).

— Fauvel, 1876a: 51 [= 1876: 236] (*Philorinum*; Algeria).

— Fauvel, 1878: 90 [= 1878a: 10] (*Philorinum*; Algeria).

— Mulsant and Rey, 1880: 158 (*Philorinum*; synonym of *humile*).

— Fauvel, 1886: 15 [= 1886a: 7] (*Philorinum*; notes; Algeria).

— Fowler, 1888: 408 (*Philorinum*; characters; Britain).

— Ganglbauer, 1895: 727 (*Philorinum*; characters; middle and southern Europe; Urals).

— Fauvel, 1897d: 247 (*Philorinum*; Barbary; Madeira; Canaries).

— Fauvel, 1902b: 55 (*Philorinum*; Algeria; Tunisia; Madeira; Canaries).

— Sainte-Claire Deville, 1907: 40 (*Philorinum*; characters; France).

— Reitter, 1909: 189 (*Micralymma*; characters; Germany).

— Bernhauer and Schubert, 1910: 61 (*Philorinum*; catalog).

— Portevin, 1929: 442 (*Philorinum*; characters; France).

— Bernhauer, 1931e: 9 (*Philorinum*; Spain).

— Scheerpeltz, 1933: 1052 (*Philorinum*; catalog).

— C. Koch, 1940: 373 (*Philorinum*; Spain).

— Horion, 1963: 96 (*Philorinum*; Britain; Holland; Belgium; France; Spain; Balearics; Sicily; Italy; Greece; Germany; Austria).

— Lohse, 1964: 48 (*Philorinum*; characters; central Europe).

— Steel, 1970a: 16 (*Philorinum*; larval characters; biological notes).

— Pope, 1977: 24 (*Philorinum*; Britain).

— Hammond, 1980: 139 (*Philorinum*; Ireland).

— Tóth, 1982: 74 (*Philorinum*; characters).

— Zanetti, 1987: 328 (*Philorinum*; characters; Italy).

— Lucht, 1987: 88 (*Philorinum*; checklist; Germany; Austria; France; Benelux).

— M. Hansen, 1988: 19 (*Philorinum*; characters; Denmark).

— Haghebaert, Bruge, and Drugmand, 1990: 36 (*Philorinum*; Belgium).

- Welch, 1993: 227 (*Philorinum*; ovariole number and ovary structure).
- Boháč, 1993: 41 (*Philorinum*; Slovakia).
- Zanetti, 1995: 8 (*Philorinum*; Italy).
- Zanetti and Sabella, 1998: 33 (*Philorinum*; Sicily).
- ▲ **DISTRIBUTION:** Russia, Europe, Tunisia, Algeria, Morocco, Madeira Islands.
- subpubescens* Stephens, 1834: 350 (*Omalium*; Type locality: London; Yorkshire; Suffolk).
 - Stephens, 1839: 428 (*Omalium*; characters; England).
 - Hardy, 1851: 57 (*Arpedium*; notes; England).
 - G. Waterhouse, 1858: 31 (*Philorinum*; synonym of *humile*).
 - Fauvel, 1869: 493 (*Philorinum*; synonym of *sordidum*).
 - Rye, 1870a: 89 (*Philorinum*; notes; Britain).
 - Mulsant and Rey, 1880: 158 (*Philorinum*; synonym of *humile*).
 - Ganglbauer, 1895: 727 (*Philorinum*; synonym of *sordidum*).
 - Bernhauer and Schubert, 1910: 61 (*Philorinum*; synonym of *sordidum*).
- pilosulum* Stephens, 1834: 353 (*Omalium*; Type locality: Yorkshire; near London; Somersetshire).
 - Stephens, 1839: 429 (*Omalium*; characters; England).
 - G. Waterhouse, 1858: 31 (*Philorinum*; synonym of *humile*).
 - Mulsant and Rey, 1880: 158 (*Philorinum*; synonym of *humile*).
 - Ganglbauer, 1895: 727 (*Philorinum*; synonym of *sordidum*).
 - Bernhauer and Schubert, 1910: 61 (*Philorinum*; synonym of *sordidum*).
- humile* Erichson, 1840: 860 (*Arpedium*; Type locality: montes Uralensi).
 - Hardy, 1851: 57 (*Arpedium*; synonym of *subpubescens*).
 - Redtenbacher, 1857: 246 (*Arpedium*; characters; Austria).
 - Redtenbacher, 1857: 993 (*Philorinum*).
 - Kraatz, 1857d: 966 (*Philorinum*; characters; Austria).
 - Wollaston, 1860: 106 (*Philorinum*, cited as *Philorhinum*; Madeira).
 - Wollaston, 1865: 521 (*Philorinum*; Madeira Islands).
 - Fauvel, 1873b: 117 [= 1873c: 10] (*Philorinum* synonym of *sordidum*).
 - Redtenbacher, 1874: 272 (*Philorinum*; characters; Austria).
 - Mulsant and Rey, 1880: 155 (*Philorinum*; characters; France).
 - Ganglbauer, 1895: 727 (*Philorinum*; synonym of *sordidum*).
 - Fauvel, 1902b: 55 (*Philorinum*; synonym of *sordidum*).
 - Bernhauer and Schubert, 1910: 61 (*Philorinum*; synonym of *sordidum*).
 - Scheerpeltz, 1933: 1052 (*Philorinum*; synonym of *sordidum*).
 - Zanetti, 1987: 328 (*Philorinum*; synonym of *sordidum*).
- myops* Haliday, 1841: 187 (*Arpedium*; Type locality: Not cited).
 - Kiesenwetter, 1851a: 435 (*Arpedium*; France).
 - Hardy, 1851: 57 (*Arpedium*; synonym of *subpubescens*).
 - Fairmaire and Laboulbène, 1856: 633 (*Arpedium*; characters; France).
 - Kraatz, 1857d: 966 (*Philorinum*; characters; Germany).
 - G. Waterhouse, 1858: 31 (*Philorinum*; synonym of *humile*).
 - Mulsant and Rey, 1880: 156 (*Philorinum*; synonym of *humile*).
 - Ganglbauer, 1895: 727 (*Philorinum*; synonym of *sordidum*).
 - Bernhauer and Schubert, 1910: 61 (*Philorinum*; synonym of *sordidum*).
- nigriventre* Rosenhauer, 1856: 86 (*Omalium*; [**Note:** This name is older than *pallidicorne*]; Type locality: Malaga).
 - Fauvel, 1876a: 51 [= 1876: 236] (*Philorinum*; synonym of *sordidum*).
 - Mulsant and Rey, 1880: 158 (*Philorinum*; synonym of *humile*).
 - Ganglbauer, 1895: 727 (*Philorinum*; synonym of *sordidum*).
 - Fauvel, 1902b: 55 (*Philorinum*; synonym of *sordidum*).
 - Bernhauer and Schubert, 1910: 61 (*Philorinum*; synonym of *sordidum*).
 - Scheerpeltz, 1933: 1052 (*Philorinum*; synonym of *sordidum*).
 - Normand, 1947a: 5 (*Philorinum*; variety of *sordidum*; Tunisia).
 - Zanetti, 1987: 329 (*Philorinum*; synonym of *sordidum*).

nitidulum Kraatz, 1857d: 966, note (*Philorinum*; Type locality: Griechenland).

- Kraatz, 1858b: 128 (*Philorinum*; characters; Greece).
- Mulsant and Rey, 1880: 158 (*Philorinum*; synonym of *humile*).
- Ganglbauer, 1895: 727 (*Philorinum*; synonym of *sordidum*).
- Bernhauer and Schubert, 1910: 61 (*Philorinum*; synonym of *sordidum*).
- Scheerpeltz, 1933: 1052 (*Philorinum*; synonym of *sordidum*).

ruficolle Schaufuss, 1861: 47 (*Philorinum*; cited as *rufieolle*; Type locality: Hisp. mer.).

- Fauvel, 1876a: 51 [= 1876: 236] (*Philorinum*; synonym of *sordidum*).
- Mulsant and Rey, 1880: 158 (*Philorinum*; synonym of *humile*).
- Ganglbauer, 1895: 727 (*Philorinum*; synonym of *sordidum*).
- Fauvel, 1902b: 55 (*Philorinum*; synonym of *sordidum*).
- Bernhauer and Schubert, 1910: 61 (*Philorinum*; synonym of *sordidum*).

cadomense Fauvel, 1863a: 42 (*Philorinum*; Type locality: Calvados, Ille-et-Vilaine).

- Mulsant and Rey, 1880: 156 (*Philorinum*; synonym of *humile*).
- Ganglbauer, 1895: 727 (*Philorinum*; synonym of *sordidum*).
- Bernhauer and Schubert, 1910: 61 (*Philorinum*; synonym of *sordidum*).

brevipenne Luze, 1910: 240 (*Anthobium*; Type locality: Andalusien).

- Scheerpeltz, 1933: 1033 (*Anthobium*; catalog).
- C. Koch, 1940: 372 (*Anthobium*; characters; Spain).
- Zanetti, 1986: 95 (*Philorinum*; synonym of *sordidum*).

marocanum Coiffait, 1978r: 271 (*Eusphalerum*; Type locality: Maroc: Sidi Bettache).

- Zanetti, 1991a: 29 (*Philorinum*; synonym of *sordidum*).

subpubescens Stephens, 1834, see: *sordidum* Stephens, 1834.

Philhydrodema

[1 species; Palaearctic Region]

Philhydrodema Scheerpeltz, 1976: 11 (species included: *longelytratum*). **TYPE SPECIES:** *Philhydrodema longelytratum* Scheerpeltz, fixed by original designation.

longelytratum Scheerpeltz, 1976: 12 (*Philhydrodema*; Type locality: Nepal: Nare-Glacier [= Ama-Dablam-Gletscher] oberhalb der Green Hut der Hillary-Makalu-Expedition, 5570 m).

▲ **DISTRIBUTION:** Nepal.

Philydrodes

[26 species; Palaearctic Region]

Philydrodes Bernhauer, 1929g: 179 (species included: *aquatilis*). **TYPE SPECIES:** *Anthophagus aquatilis* Sharp, fixed by original designation and monotypy.

- Scheerpeltz, 1933: 1067 (world catalog supplement).
- Blackwelder, 1952: 303 (type species: *aquatilis*).
- Nakane and Sawada, 1956a: 179 (characters; key to Japanese species; type species: *aquatilis*).
- Tikhomirova, 1973a: 141 (checklist of species of USSR).
- Shibata, 1976: 119 (checklist of species of Japan).
- Watanabe, 1990: 309 (characters; key to species of Japan).
- Kashcheev, 1999: 146 (characters).

Minyphilydrodes Watanabe, 1990: 334 (subgenus of *Philydrodes*; species included: *watanabei*, *asamanis*, *parallelus*, *maculatus*, *ishidai*, *biguttatus*, *flavidus*, *shimomurai*, *chichibunis*, *niger*). **TYPE SPECIES:** *Philydrodes watanabei* R. Dvořák, fixed by original designation.

aquatilis Sharp, 1889: 469 (*Anthophagus*; Type locality: Hakone).

- Bernhauer and Schubert, 1910: 79 (*Anthophagus*; catalog).
- Bernhauer, 1929g: 180 (*Philydrodes*).
- Scheerpeltz, 1933: 1067 (*Philydrodes*; catalog).
- Nakane and Sawada, 1956a: 179, 180 (*Philydrodes*; characters in key; Japan).

- Nakane, 1963a: 83 (*Philydroides*; characters; habitus photograph; Japan).
- Watanabe, 1990: 314 (*Philydroides*; characters; Japan).
- Watanabe, 1996a: 9 (*Philydroides*; cave collection; Japan).

▲ **DISTRIBUTION:** Japan.

japonicus Yoshida and Nomura, 1952: 6 (*Coryphium*; Type locality: Aoiwa L. S. C., Kanto-Mountainland, Japan).

- Shibata, 1970: 57 (suggested transfer from *Coryphium* to *Philydroides*).
- Watanabe, 1990: 314 (*Philydroides*; synonym of *aquatilis*).
- Zerche, 1990: 18 (*Philydroides*).

asamanis Watanabe, 1990: 337 (*Philydroides*; subgenus *Minyphilydroides*; Type locality: Japan: Honshu: Gunma Pref.: near Nidoage).

▲ **DISTRIBUTION:** Japan.

biguttatus Watanabe, 1990: 343 (*Philydroides*; subgenus *Minyphilydroides*; Type locality: Japan: Honshu: Nagano Pref.: Hakuba-mura).

▲ **DISTRIBUTION:** Japan.

chichibunis Watanabe, 1990: 347 (*Philydroides*; subgenus *Minyphilydroides*; Type locality: Japan: Honshu: Saitama Pref.: Kawamata, Chichibu).

▲ **DISTRIBUTION:** Japan.

dewanus Watanabe, 1990: 325 (*Philydroides*; subgenus *Philydroides*; Type locality: Japan: Honshu: Yamagata Pref.: Tachiyazawa, Higashitagawa).

▲ **DISTRIBUTION:** Japan.

flavidus Watanabe, 1990: 344 (*Philydroides*; subgenus *Minyphilydroides*; Type locality: Japan: Honshu: Yamanashi Pref.: Mt. Kitazawa-tôge, S. Jpn. Alps).

▲ **DISTRIBUTION:** Japan.

gigas Watanabe, 1990: 317 (*Philydroides*; subgenus *Philydroides*; Type locality: Japan: Honshu: Shizuoka Pref.: Umegashima Spa).

▲ **DISTRIBUTION:** Japan.

grandis Nakane and Sawada, 1956a: 181 (*Philydroides*; Type locality: Japan: Kyushu: Chinoike-jigoku, Beppu).

- Watanabe, 1990: 320 (*Philydroides*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

hikosanensis Nakane and Sawada, 1956a: 180 (*Philydroides*; Type locality: Japan: Kyushu: Hikosan).

- Nakane, 1963a: 83 (*Philydroides*; characters; habitus photograph; Japan).
- Watanabe, 1990: 318 (*Philydroides*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

horioi Nakane and Sawada, 1956a: 180 (*Philydroides*; Type locality: Japan: Sampuku Pass, Nagano).

- Watanabe, 1990: 316 (*Philydroides*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

ishidai Nakane and Sawada, 1956a: 182 (*Philydroides*; Type locality: Kamikochi, Nagano).

- Nakane, 1963a: 83 (*Philydroides*; characters; habitus photograph; Japan).
- Watanabe, 1990: 342 (*Philydroides*; subgenus *Minyphilydroides*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

japonicus Yoshida and Nomura, 1952, see: *aquatilis* Sharp, 1889.

kawaseorum Hayashi, 1994a: 133 (*Philydroides*, cited as *Phylidroides*; Type locality: Japan: Mie: Jirakura).

▲ **DISTRIBUTION:** Japan.

maculatus Watanabe, 1990: 340 (*Philydroides*; subgenus *Minyphilydroides*; Type locality: Japan: Honshu: Yamanashi Pref.: Hironawara, foot of Mt. Kitadake).

▲ **DISTRIBUTION:** Japan.

- michikoe** Watanabe, 1990: 323 (*Philydroides*; subgenus *Philydroides*; Type locality: Japan: Honshu: Yamagata Pref.: Mt. Atsumidake, Nishitagawa).
▲ **DISTRIBUTION:** Japan.
- minipunctatus** Watanabe, 1990: 321 (*Philydroides*; subgenus *Philydroides*; Type locality: Japan: Honshu: Nagano Pref.: Kamikôchi).
▲ **DISTRIBUTION:** Japan.
- niger** Watanabe, 1990: 349 (*Philydroides*; subgenus *Minyphilydroides*; Type locality: Japan: Honshu: Yamanashi Pref.: Hirogawara, foot of Mt. Kitadake).
▲ **DISTRIBUTION:** Japan.
- parallelus** Watanabe, 1990: 338 (*Philydroides*; subgenus *Minyphilydroides*; Type locality: Japan: Honshu: Nagano Pref.: Kamikôchi).
▲ **DISTRIBUTION:** Japan.
- pulla* Nakane and Sawada, 1956, see: *Liophilydroides*.
- puncticollis* Nakane and Sawada, 1956, see: *Liophilydroides*.
- rubidus** Nakane and Sawada, 1956a: 180 (*Philydroides*; variety of *aquatilis*; Type locality: Japan: Lake Marunuma, Nikko).
— Watanabe, 1990: 331 (*Philydroides*; valid species; characters; Japan).
▲ **DISTRIBUTION:** Japan.
- rufescens** Watanabe, 1990: 327 (*Philydroides*; subgenus *Philydroides*; Type locality: Japan: Shikoku: Ehime Pref.: western ravine of Mt. Shiratsue).
▲ **DISTRIBUTION:** Japan.
- shimomurai** Watanabe, 1990: 346 (*Philydroides*; subgenus *Minyphilydroides*; Type locality: Japan: Honshu: Mt. Sanpuku-tôge, S. Jpn. Alps).
▲ **DISTRIBUTION:** Japan.
- similis** Nakane and Sawada, 1956a: 181 (*Philydroides*; subgenus *Philydroides*; variety of *horioi*; Type locality: Japan: Nagano, Sampuku Pass).
— Watanabe, 1990: 330 (*Philydroides*; characters; Japan).
▲ **DISTRIBUTION:** Japan.
- takaensis** Nakane and Sawada, 1956a: 182 (*Philydroides*; Type locality: Japan: Takaoyama, Tokyo).
— Watanabe, 1990: 334 (*Philydroides*; characters; Japan).
▲ **DISTRIBUTION:** Japan.
- troglophila* Nakane and Sawada, 1956, see: *Liophilydroides*.
- tsurugisanus** Watanabe, 1990: 326 (*Philydroides*; subgenus *Philydroides*; Type locality: Japan: Shikoku: Tokushima Pref.: Ryôtsurugi-dans on Mt. Tsurugi-san).
▲ **DISTRIBUTION:** Japan.
- yoshidai** Watanabe, 1990: 328 (*Philydroides*; subgenus *Philydroides*; Type locality: Japan: Shikoku: Tokushima Pref.: Ryôtsurugidani on Mt. Tsurugi-san).
▲ **DISTRIBUTION:** Japan.
- watanabei** R. Dvořák, 1957: 9 (*Philydroides*; Type locality: Itsukaichi, Nishitama, Tokyo, Japan).
— Watanabe, 1990: 335 (*Philydroides*; subgenus *Minyphilydroides*; characters; Japan).
▲ **DISTRIBUTION:** Japan.
- zipanguensis** Watanabe, 1990: 333 (*Philydroides*; subgenus *Philydroides*; Type locality: Japan: Honshu: Nagano Pref.: Kamikôchi).
▲ **DISTRIBUTION:** Japan.

Phlaeopterus

[14 species; Nearctic Region]

Phlaeopterus Motschulsky, 1853a: 78 (species included: *fusconiger*). **TYPE SPECIES:** *Phlaeopterus fusconiger* Motschulsky, fixed by monotypy.

- Kraatz, 1857d: 930 (synonym of *Lesteva*).
- Gemminger and Harold, 1868: 659 (synonym of *Lesteva*).
- Fauvel, 1871a: 127 [= 1872: 101] (synonym of *Lesteva*).
- Fauvel, 1875a: VII [= 1875b: 209] (synonym of *Lesteva*).
- Bernhauer and Schubert, 1910: 74 (synonym of *Tilea*).
- Scheerpeltz, 1933: 1065 (world catalog supplement).
- Blackwelder, 1952: 303 (type species: *fuscconiger*).
- Hatch, 1957: 49, 57 (characters; key to species of Pacific Northwest).
- Moore, 1966: 48, 49 (characters; notes).
- Moore and Legner, 1975: 208 (catalog; North America north of Mexico).
- Moore and Legner, 1979: 192 (characters; notes).
- Campbell and Davies, 1991: 90 (checklist of species; Alaska and Canada).
- Newton, Thayer, Ashe, and Chandler, 2000: 340 (14 Nearctic species; notes; characters in key).

Tilea Fauvel, 1878d: 246 [= 1878e: 82] (species included: *cavicollis*). **TYPE SPECIES:** *Tilea cavicollis* Fauvel, fixed by monotypy.

- Duvivier, 1883: 195 (catalog).
- Casey, 1894: 402 (notes; key to North American species).
- Bernhauer and Schubert, 1910: 74 (world catalog; 7 species).
- Leng, 1920: 95 (catalog of North American species).
- Scheerpeltz, 1933: 1065 (synonym of *Phlaeopterus*).
- Blackwelder, 1952: 390 (type species: *cavicollis*; synonym of *Phlaeopterus*).

brevipennis Casey, 1894: 404 (*Tilea*; Type locality: Wyoming).

- Bernhauer and Schubert, 1910: 74 (*Tilea*; catalog).
- Hatch, 1957: 60 (*Phlaeopterus*; characters; British Columbia; Washington; Oregon; Idaho; Montana).

▲ **DISTRIBUTION:** Canada, USA.

cascadiensis Hatch, 1957: 59 (*Phlaeopterus*; Type locality: Washington: Mt. Rainier, Tipsoo L.; British Columbia; Oregon).

▲ **DISTRIBUTION:** Canada, USA.

castaneus Casey, 1894: 404 (*Tilea*; Type locality: Colorado).

- Bernhauer and Schubert, 1910: 74 (*Tilea*; catalog).

▲ **DISTRIBUTION:** USA.

cavicollis Fauvel, 1878d: 246 [= 1878e: 82] (*Tilea*; Type locality: Colombie britannique).

- Bernhauer and Schubert, 1910: 74 (*Tilea*; catalog).
- Hatch, 1957: 60 (*Phlaeopterus*; characters; British Columbia; Washington; Idaho).

▲ **DISTRIBUTION:** Canada, USA.

filicornis Casey, 1886: 234 (*Phlaeopterus*, cited as *Phloeopterus*; Type locality: California: Placer Co.).

- Bernhauer and Schubert, 1910: 74 (*Tilea*; catalog).

▲ **DISTRIBUTION:** USA.

frosti Hatch, 1957: 59 (*Phlaeopterus*; Type locality: Washington: Mt. Rainier, below Sluskin Falls. Also cited from British Columbia and Oregon).

▲ **DISTRIBUTION:** Canada, USA.

fuscconiger Motschulsky, 1853a: 78 (*Phlaeopterus*; Type locality: Ounalaschka).

- Mäklin, 1853: 193 (*Lesteva*; characters; Unalaska).
- LeConte, 1866: 375 (*Lesteva*; California).
- Fauvel, 1878d: 248 [= 1878e: 84] (*Lesteva*; characters; Alaska).
- Bernhauer and Schubert, 1910: 74 (*Tilea*; catalog).

▲ **DISTRIBUTION:** USA.

houkae Hatch, 1957: 58 (*Phlaeopterus*; Type locality: Washington: Mt. Baker Lodge. Also cited from British Columbia).

▲ **DISTRIBUTION:** Canada, USA.

- kootenayensis** Hatch, 1957: 58 (*Phlaeopterus*; Type locality: British Columbia: Bull River, 6 mi. from mouth).
 ▲ **DISTRIBUTION:** Canada.
- lagrandeuri** Hatch, 1957: 58 (*Phlaeopterus*; Type locality: Seattle, Carkeek Park, Washington. Also cited from Oregon and British Columbia).
 ▲ **DISTRIBUTION:** Canada, USA.
- loganensis** Hatch, 1957: 60 (*Phlaeopterus*; Type locality: G[lacier] N[atational] P[ark]: Logan Pass, Montana. Also cited from British Columbia and Idaho).
 ▲ **DISTRIBUTION:** Canada, USA.
- longipalpus** Casey, 1885a: 318 (*Phlaeopterus*, cited as *Phloeopterus*; Type locality: California: Middle Sierras).
 — Bernhauer and Schubert, 1910: 74 (*Tilea*; catalog).
 — Hatch, 1957: 60 (*Phlaeopterus*; characters; British Columbia; Washington; Oregon; Idaho; Utah).
 ▲ **DISTRIBUTION:** Canada, USA.
- rufitarsis** Casey, 1894: 403 (*Tilea*; Type locality: California: Siskiyou Co.).
 — Bernhauer and Schubert, 1910: 74 (*Tilea*; catalog).
 — Hatch, 1957: 59 (*Phlaeopterus*; characters; British Columbia; California; Montana).
 ▲ **DISTRIBUTION:** Canada, USA.
- stacesmithi** Hatch, 1957: 60 (*Phlaeopterus*; Type locality: British Columbia: Barkerville, Roundtop Mt., 6000 ft.).
 ▲ **DISTRIBUTION:** Canada.

Phyllodrepoidea

[1 species; Palaeartic and Nearctic Regions]

- Phyllodrepoidea* Ganglbauer, 1895: 724 (species included: *crenata*). **TYPE SPECIES:** *Phyllodrepoidea crenata* Ganglbauer, fixed by monotypy (see Herman, 2001).
 — Luze, 1905c: 247 (characters).
 — Heyden, Reitter, and Weise, 1906: 133 (list of species of Europe and Caucasus).
 — Reitter, 1909: 188 (characters).
 — Bernhauer and Schubert, 1910: 63 (world catalog; 1 species).
 — Petri, 1912: 54 (list of species of Siebenbürgen).
 — Winkler, 1925: 332 (catalog for Palaeartic region).
 — Porta, 1926: 24 (characters; species of Italy).
 — Roubal, 1930: 312 (catalog; Slovakia).
 — Joy, 1932: 102 (key to British species).
 — Scheerpeltz, 1933: 1054 (world catalog supplement).
 — Kloet and Hincks, 1945: 161 (list of British species).
 — Palm, 1948: 96 (characters; species of Sweden).
 — Tottenham, 1949: 356, 407 (type species: *crenata* Gravenhorst; list of British species).
 — Blackwelder, 1952: 307 (type species: *crenata*).
 — Tottenham, 1954: 28 (characters; British species).
 — Horion, 1963: 101 (list of central European species).
 — Székessy, 1963: 18 (characters).
 — Lohse, 1964: 51 (characters; key to central European species).
 — Kasule, 1968: 133, 134 (larval characters).
 — Scheerpeltz, 1968a: 13 (catalog of Austrian species).
 — Steel, 1970a: 17 (larval characters; biological notes).
 — Tikhomirova, 1973a: 139 (checklist of species of USSR).
 — Pope, 1977: 22 (list of British species).
 — Burakowski, Mroczkowski, and Stefańska, 1979: 52 (catalog; Poland).
 — Muona, 1979: 18 (list of Scandinavian species).
 — Tóth, 1982: 74 (characters; habitus; species of Hungary).
 — Zanetti, 1987: 283 (characters; habitus; species of Italy).

- Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
- Boháč, 1993: 41 (in list of species of Czech Republic and Slovakia).
- Zanetti, 1995: 8 (list of species of Italy).
- Newton, Thayer, Ashe, and Chandler, 2000: 340 (1 undescribed Nearctic species; notes; characters in key).
- Herman, 2001: 8 (type species; discussion).

creatoris Gozis, 1886, see: *crenata* Gravenhorst, 1802.

- crenata** Ganglbauer, 1895: 724 (*Phyllodrepoidea*; Type locality: Mittel- und Südeuropa).
- Gravenhorst, 1802: 114 (*Omalium*; [**Note:** Misidentification: Gravenhorst attributed this name to Paykull who attributed it to Fabricius whose species is cited in this catalog in *Acidota*. All subsequent authors have attributed the species to Gravenhorst]).
 - Latreille, 1804: 371 (*Omalium*; characters).
 - Gravenhorst, 1806: 207 (*Omalium*; characters).
 - C. Sahlberg, 1830: 288 (*Omalium*; characters; Finland).
 - Erichson, 1840: 873 (*Deliphrum*; characters; Germany).
 - Redtenbacher, 1849: 829 (*Deliphrum*; characters).
 - Fairmaire and Laboulbène, 1856: 638 (*Deliphrum*; characters; France).
 - Redtenbacher, 1857: 249 (*Deliphrum*; characters; Germany).
 - Kraatz, 1857d: 954 (*Deliphrum*; characters; Germany).
 - Thomson, 1871: 377 (*Deliphrum*; characters; Sweden).
 - Fauvel, 1871a: 122 [= 1872: 96] (*Deliphrum*; characters; France; Britain; Germany; Switzerland; Italy; Austria; Corsica; Sicily).
 - Redtenbacher, 1874: 270 (*Deliphrum*; characters).
 - Mulsant and Rey, 1880: 112 (*Deliphrum*; characters; France).
 - Fowler, 1888: 406 (*Deliphrum*; characters; Britain).
 - Ganglbauer, 1895: 724 (*Phyllodrepoidea*; characters; middle and southern Europe).
 - Luze, 1905c: 249 (*Phyllodrepoidea*; characters; Hungary; Croatia; Bosnia; France, Italy, Greece; Germany; Switzerland; Corsica; Sicily).
 - Sainte-Claire Deville, 1906: 71 (*Phyllodrepoidea*; Corsica).
 - Sainte-Claire Deville, 1907: 42 (*Phyllodrepoidea*; characters; France).
 - Reitter, 1909: 188 (*Phyllodrepoidea*; characters; Germany).
 - Bernhauer and Schubert, 1910: 63 (*Phyllodrepoidea*; catalog).
 - Portevin, 1929: 442 (*Phyllodrepoidea*; characters; France).
 - Scheerpeltz, 1933: 1054 (*Phyllodrepoidea*; catalog).
 - Palm, 1948: 97 (*Phyllodrepoidea*; characters; Sweden; Norway).
 - Blackwelder, 1952: 307 (*Phyllodrepoidea*; type species).
 - Tottenham, 1954: 28 (*Phyllodrepoidea*; characters; Scotland).
 - Székessy, 1963: 17 (*Phyllodrepoidea*; illustration).
 - Horion, 1963: 101 (*Phyllodrepoidea*; Scotland; Norway; Sweden; France; Belgium; Switzerland; Corsica; Sicily; Italy; Greece; Croatia; Bosnia Hercegovina; Hungary; Romania; Slovakia; Germany; Austria).
 - Lohse, 1964: 51 (*Phyllodrepoidea*; characters; central Europe).
 - Kasule, 1968: 134 (*Phyllodrepoidea*; larval characters).
 - Scheerpeltz, 1968a: 13 (*Phyllodrepoidea*; catalog; Austria).
 - Steel, 1970a: 17 (*Phyllodrepoidea*; larval characters; biological notes).
 - Tikhomirova, 1973a: 139 (*Phyllodrepoidea*; checklist; Europe).
 - Pope, 1977: 22 (*Phyllodrepoidea*; Britain).
 - Muona, 1979: 18 (*Phyllodrepoidea*; Sweden; Norway).
 - Burakowski, Mroczkowski, and Stefańska, 1979: 52 (*Phyllodrepoidea*; notes; Poland).
 - Hammond, 1980: 137 (*Phyllodrepoidea*; notes; Ireland).
 - Tóth, 1982: 74 (*Phyllodrepoidea*; characters; Hungary).
 - Crowson, 1982: 125 (*Phyllodrepoidea*; natural history observations; Britain).
 - Terlutter, 1984: 26, 41 (*Phyllodrepoidea*; habitat notes; Germany).
 - Segers, 1986: 21 (*Phyllodrepoidea*; Belgium).
 - Zanetti, 1987: 284 (*Phyllodrepoidea*; characters; Italy).

- Lucht, 1987: 88 (*Phyllodrepoidea*; Germany; Poland; Austria; Switzerland; France; Benelux; Sweden).
- Silfverberg, 1992: 22 (*Phyllodrepoidea*; Sweden; Norway).
- Boháč, 1993: 41 (*Phyllodrepoidea*; Slovakia; Czech Republic).
- Allen, 1994: 247 (*Phyllodrepoidea*; Britain).
- Zanetti, 1995: 8 (*Phyllodrepoidea*; Italy).
- Zanetti and Sabella, 1998: 31 (*Phyllodrepoidea*; notes; Sicily).
- M. Hansen, Pedersen, and Pritzl, 1999: 77 (*Phyllodrepoidea*; characters; notes; Denmark).
- Fowles, Alexander, and Key, 1999: 129 (*Phyllodrepoidea*; saproxylic species; status as endangered or threatened species; Britain).
- Herman, 2001: 8, 21 (*Phyllodrepoidea*; type species of genus; Ganglbauer author species not Gravenhorst who attributed it to Fabricius; nomen protectum).

▲ **DISTRIBUTION:** Europe.

creatoris Gozis, 1886: 15 (*Deliphrum*; proposed for Gravenhorst's misidentification of *crenatum*; Type locality: Not cited).

- Bernhauer and Schubert, 1910: 63 (*Phyllodrepoidea*; synonym of *crenata*).
- Herman, 2001: 21 (*Phyllodrepoidea*; synonym of *crenata*; nomen oblitum).

Porrhodites

[2 species; Nearctic and Palaearctic Regions]

Porrhodites Kraatz, 1857d: 961 (species included: *brevicollis*). **TYPE SPECIES:** *Arpedium brevicolle* Mäklin, fixed by monotypy.

- Redtenbacher, 1857: 992 (characters).
- Thomson, 1859: 50 (characters; type species: *fenestralis*).
- Schaum, 1859: 32 (catalog; European species).
- LeConte, 1861a: 70 (characters).
- Thomson, 1861: 195 (characters).
- LeConte, 1863: 26 (list of North American species).
- Gemminger and Harold, 1868: 663 (catalog).
- Fauvel, 1871a: 111 [= 1872: 85] (characters).
- Redtenbacher, 1874: 271 (characters).
- Fauvel, 1875a: VI [= 1875b: 208] (catalog).
- Heyden, 1880: 82 (list of species of Siberian region).
- Heyden, Reitter, and Weise, 1891: 119 (list of species of Europe and Caucasus).
- Ganglbauer, 1895: 726 (characters).
- Heyden, Reitter, and Weise, 1906: 133 (list of species of Europe and Caucasus).
- Reitter, 1909: 184 (characters).
- Bernhauer and Schubert, 1910: 62 (world catalog; 62 species).
- Leng, 1920: 94 (catalog of North American species).
- Winkler, 1925: 332 (catalog for Palaearctic region).
- Porta, 1926: 24 (characters; species of Italy).
- Scheerpeltz, 1933: 1053 (world catalog supplement).
- Palm, 1948: 92 (characters; species of Sweden).
- Blackwelder, 1952: 320 (type species: *brevicollis*).
- Hatch, 1957: 50, 69 (characters; species of Pacific Northwest).
- Horion, 1963: 98 (list of central European species).
- Székessy, 1963: 16 (characters).
- Lohse, 1964: 49 (characters; key to central European species).
- Moore, 1966: 48, 51 (characters; notes).
- Scheerpeltz, 1968a: 12 (catalog of Austrian species).
- Tikhomirova, 1973a: 139 (checklist of species of USSR).
- Moore and Legner, 1975: 210 (catalog; North America north of Mexico).
- Burakowski, Mroczkowski, and Stefańska, 1979: 52 (catalog; Poland).
- Moore and Legner, 1979: 193 (characters; notes).
- Muona, 1979: 18 (list of Scandinavian species).

- Tóth, 1982: 69 (characters; habitus; key to species of Hungary).
- Campbell, 1984a: 1228 (characters; review of and key to North American species).
- Zanetti, 1987: 267 (characters; habitus; species of Italy).
- Campbell and Davies, 1991: 91 (checklist of species; Alaska and Canada).
- Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
- Downie and Arnett, 1996: 433 (characters; key to species of Northeastern North America).
- Newton, Thayer, Ashe, and Chandler, 2000: 340 (2 Nearctic species; notes; characters in key).

brevicollis Mäklin, 1852, see: *fenestralis* Zetterstedt, 1828.

fenestralis Zetterstedt, 1828: 50 (*Omalium*; Type locality: Lapponia Tornensis).

- Zetterstedt, 1838: 50 (*Omalium*; characters; habitat; Lapland).
- Erichson, 1840: 888 (*Omalium*; characters; Lapland).
- Kraatz, 1857d: 963 (*Porrhodites*; synonym of *brevicollis*).
- Thomson, 1859: 50 (type species of *Porrhodites*).
- Thomson, 1861: 196 (*Porrhodites*; characters; Scandinavia).
- Fauvel, 1871a: 111 [= 1872: 85] (*Porrhodites*; characters; Switzerland; Lapland; Alaska).
- Fauvel, 1874: 323 [= 1874b: 29] (*Porrhodites*; Finland).
- J. Sahlberg, 1876: 214 (*Porrhodites*; Finland).
- Fauvel, 1878d: 223 [= 1878e: 59] (*Porrhodites*; characters; Alaska; British Columbia; Lake Superior).
- Seidlitz, 1891: 344 (*Porrhodites*; characters; Europe).
- Seidlitz, 1891a: 366 (*Porrhodites*; characters; Europe).
- Ganglbauer, 1895: 726 (*Porrhodites*; characters; Lapland; Finland; Siberia; North America).
- Poppius, 1909: 5 (*Porrhodites*; Lena Valley, Siberia).
- Reitter, 1909: 184 (*Porrhodites*; characters; Germany).
- Bernhauer and Schubert, 1910: 62 (*Porrhodites*; catalog).
- Scheerpeltz, 1933: 1053 (*Porrhodites*; catalog).
- Palm, 1948: 93 (*Porrhodites*; characters; Sweden; Norway; Finland).
- Hatch, 1957: 69 (*Porrhodites*; characters; British Columbia).
- Horion, 1963: 98 (*Porrhodites*; Norway; Sweden; Finland; Russia; Poland; Germany; Czechoslovakia; Austria; Corsica).
- Lohse, 1964: 49 (*Porrhodites*; characters; central Europe).
- Tóth, 1982: 69 (*Porrhodites*; characters).
- Campbell, 1984a: 1230 (*Porrhodites*; characters; Alberta; British Columbia; Manitoba; Newfoundland; Labrador; Northwest Territories; Quebec; Yukon Territory; Alaska; Montana; Oregon; Wyoming).
- Zanetti, 1987: 267 (*Porrhodites*; characters; Italy).
- Lucht, 1987: 88 (*Porrhodites*; checklist; Austria).
- Boháč, 1993: 41 (*Porrhodites*; Czech Republic).
- Downie and Arnett, 1996: 433 (*Porrhodites*; characters; Canada; USA).
- Ryabukhin, 1999: 20 (*Porrhodites*; catalog; habitat; distribution; northeastern Russia).

▲ **DISTRIBUTION:** Norway, Sweden, Finland, Russia, Poland, Germany, Czechoslovakia, Austria, Italy, Switzerland, Corsica, Canada, USA.

pubescens Zetterstedt, 1828: 52 (*Omalium*; Type locality: Lapponia: Turtola; Raresuando).

- Zetterstedt, 1838: 52 (*Omalium*; characters; habitat; Lapland).
- Erichson, 1840: 889 (*Omalium*; characters; Lapland).
- Fauvel, 1871a: 111 [= 1872: 85] (*Porrhodites*; synonym of *fenestralis*).
- Seidlitz, 1875: 239 (*Porrhodites*; characters; Baltic region).
- Ganglbauer, 1895: 726 (*Porrhodites*; synonym of *fenestralis*).
- Bernhauer and Schubert, 1910: 62 (*Porrhodites*; synonym of *fenestralis*).
- Campbell, 1984a: 1230 (*Porrhodites*; synonym of *fenestralis*).

brevicollis Mäklin, 1852: 320 (*Arpedium*; Type locality: insula Sitkha).

- Mäklin, 1853: 196 (*Deliphrum*; characters; Kenai Peninsula).
- Redtenbacher, 1857: 992 (*Porrhodites*; characters; Austria).
- Kraatz, 1857d: 963 (*Porrhodites*; characters; Germany).
- Fauvel, 1871a: 111 [= 1872: 85] (*Porrhodites*; synonym of *fenestralis*).

- Redtenbacher, 1874: 271 (*Porrhodites*; characters).
- J. Sahlberg, 1876: 214 (*Porrhodites*; synonym of *fenestralis*).
- Fauvel, 1878d: 223 [= 1878e: 59] (*Porrhodites*; synonym of *fenestralis*).
- Ganglbauer, 1895: 726 (*Porrhodites*; synonym of *fenestralis*).
- Bernhauer and Schubert, 1910: 62 (*Porrhodites*; synonym of *fenestralis*).
- Scheerpeltz, 1933: 1053 (*Porrhodites*; synonym of *fenestralis*).
- Campbell, 1984a: 1230 (*Porrhodites*; synonym of *fenestralis*).
- Zanetti, 1987: 267 (*Porrhodites*; synonym of *fenestralis*).

inflatus Hatch, 1957: 68 (*Paradeliphrum*; Type locality: B. C. [British Columbia]: Copper Mt.).

- Campbell, 1984a: 1232 (*Porrhodites*; characters; Alberta; British Columbia; Ontario; Quebec; California; Colorado; New Hampshire; New York; Oregon).
- Levesque and Levesque, 1996: 290 (*Porrhodites*; seasonal abundance; Quebec).
- Downie and Arnett, 1996: 434 (*Porrhodites*; characters; Canada; USA).

▲ **DISTRIBUTION:** Canada, USA.

pubescens Zetterstedt, 1828, see: *fenestralis* Zetterstedt, 1828.

Tanyrhinus

[1 species; Nearctic Region]

Tanyrhinus Mannerheim, 1852: 349 (species included: *singularis*). **TYPE SPECIES:** *Tanyrhinus singularis* Mannerheim, fixed by monotypy.

- Gemminger and Harold, 1870: 2062 (cited as *Tanyrrhinus*; catalog).
- Fauvel, 1878d: 230 [= 1878e: 66] (cited as *Tanyrrhinus*; characters).
- Duvivier, 1883: 197 (catalog; cited as *Tanyrrhinus*).
- Bernhauer and Schubert, 1910: 37 (world catalog; 1 species).
- Leng, 1920: 93 (catalog of North American species).
- Scheerpeltz, 1933: 1032 (world catalog supplement).
- Blackwelder, 1952: 374 (type species: *singularis*).
- Hatch, 1957: 50, 68 (characters; species of Pacific Northwest).
- Moore, 1966: 48, 56 (cited as *Tanyrrhinus*; characters; notes).
- Moore and Legner, 1975: 216 (catalog; North America north of Mexico).
- Moore and Legner, 1979: 195 (characters; notes).
- Newton, Thayer, Ashe, and Chandler, 2000: 340 (1 Nearctic species; notes; characters in key).

singularis Mannerheim, 1852: 350 (*Tanyrhinus*; Type locality: insula Sitkha).

- Gemminger and Harold, 1870: 2062 (*Tanyrhinus*; cited as *Tanyrrhinus*; catalog).
- Fauvel, 1878d: 230 [= 1878e: 66] (*Tanyrhinus*; cited as *Tanyrrhinus*; characters; Alaska).
- Bernhauer and Schubert, 1910: 37 (*Tanyrhinus*; catalog).
- Scheerpeltz, 1933: 1032 (*Tanyrhinus*; catalog).
- Hatch, 1957: 69 (*Tanyrhinus*; characters; British Columbia; Washington; Oregon).
- Campbell and Davies, 1991: 91 (*Tanyrhinus*; checklist of species; Alaska and Canada).

▲ **DISTRIBUTION:** Canada, USA.

Trichodromeus

[7 species; Palaearctic Region]

Trichodromeus Luze, 1903: 116 (subgenus of *Geodromicus*; species included: *penicillatus*, *tumidus*). **TYPE SPECIES:** *Hygrogeus penicillatus* Reitter, fixed by subsequent designation by Blackwelder, 1952: 305.

- Bernhauer and Schubert, 1910: 75 (subgenus of *Geodromicus*).
- Tikhomirova, 1973a: 141 (subgenus of *Geodromicus*; checklist of species of USSR).
- Bordoni, 1984a: 57 (valid genus).
- Bordoni, 1990a: 100 (valid genus; characters).
- Zerche, 1992a: 126, 134 (characters; valid genus; key to some species; phylogeny of species; character polarity; phylogenetic relationship of genus).

Neogeodromicus Bordoni, 1985: 373 (species included: *ketmeniensis*). **TYPE SPECIES:** *Neogeodromicus ketmeniensis* Bordoni, fixed by monotypy.

— Zerche, 1992a: 126 (synonym of *Trichodromeus*).

armatus Cameron, 1941: 144 (*Hygrogeus*, cited as *Hygrogoeus*; Type locality: Kashmir: Apher Wat, altitude 13,000 feet).

— Zerche, 1992a: 134 (*Trichodromeus*; Pakistan).

▲ **DISTRIBUTION:** India, Pakistan.

brevisulcus Champion, 1925, see: *kumaonensis* Champion, 1925.

flavipes Motschulsky, 1860: 551 (*Geodromus*; Type locality: Alpes du Caucase en Touchétié; [Note: See lectotype designation by Bordoni, 1993]).

— Gemminger and Harold, 1868: 658 (*Anthophagus*; synonym of *globulicollis*).

— Fauvel, 1869: 493 (*Anthophagus*; synonym of *globulicollis*).

— Fauvel, 1871a: 135 [= 1872: 109] (*Geodromicus*; synonym of *globulicollis*).

— Bernhauer and Schubert, 1910: 76 (*Geodromicus*; synonym of *globulicollis*).

— Bordoni, 1993: 158 (*Neogeodromicus*; lectotype designation; cited as valid species; characters).

▲ **DISTRIBUTION:** Georgia.

ketmeniensis Bordoni, 1985: 374 (*Neogeodromicus*; Type locality: Turkestan: Ketmen-tjube, Sussamir Tan).

— Zerche, 1992a: 128 (*Trichodromeus*; characters; Kirghizia; Turkestan; Kazakhstan; Turkmenia; Transcaspian region).

▲ **DISTRIBUTION:** Kyrgyzstan, Kazakhstan, Turkmenistan.

kumaonensis Champion, 1925: 105 (*Hygrogeus*; Type locality: Sheshel, alt. 15,750 ft.).

— Cameron, 1930: 166 (*Hygrogeus*; characters; India).

— Scheerpeltz, 1933: 1067 (*Hygrogeus*; catalog).

— Coiffait, 1983: 275 (*Hygrogeus*; Kashmir).

— Zerche, 1992a: 133 (*Trichodromeus*; Pakistan).

▲ **DISTRIBUTION:** India, Pakistan.

brevisulcus Champion, 1925: 106 (*Hygrogeus*; variety of *kumaonensis*; Type locality: N. Kumaon: Laptel, alt. 15,000 ft.).

— Cameron, 1930: 166 (*Hygrogeus*; variety of *kumaonensis*; characters; India).

— Scheerpeltz, 1933: 1067 (*Hygrogeus*; variety of *kumaonensis*).

penicillatus Reitter, 1900c: 49 (*Hygrogeus*, cited as *Hygrogaeus*; Type locality: Buchara: Karatak; [Note: See lectotype designation by Zerche, 1992a]).

— Luze, 1903: 116 (*Geodromicus*; subgenus *Trichodromeus*; characters; Buchara; Turkestan).

— Bernhauer and Schubert, 1910: 77 (*Geodromicus*; catalog).

— Tikhomirova, 1973a: 141 (*Geodromicus*; subgenus *Trichodromeus*; checklist; Central Asia).

— Bordoni, 1984a: 57 (*Trichodromeus*).

— Bordoni, 1990a: 100 (*Trichodromeus*; characters; notes; Turkestan).

— Zerche, 1992a: 131 (*Trichodromeus*; lectotype designation; characters).

▲ **DISTRIBUTION:** Uzbekistan.

tumidus Luze, 1903: 117 (*Geodromicus*; subgenus *Trichodromeus*; Type locality: Russisches Zentralasien: Buchara: Karatagh).

— Luze, 1904: 78 (*Geodromicus*; Turkestan).

— Bernhauer and Schubert, 1910: 77 (*Geodromicus*; catalog).

— Tikhomirova, 1973a: 141 (*Geodromicus*; subgenus *Trichodromeus*; checklist; Central Asia).

— Bordoni, 1984a: 57 (*Trichodromeus*).

— Bordoni, 1990a: 102 (*Trichodromeus*; characters; notes).

— Zerche, 1992a: 131 (*Trichodromeus*; synonym of *penicillatus*).

sogdianus Bordoni, 1990a: 104 (*Trichodromeus*; Type locality: Bukara: “Mts. Karateghin, Baldschuan, 924 m).

— Zerche, 1992a: 131 (*Trichodromeus*; synonym of *penicillatus*).

schmidti Zerche, 1992a: 130 (*Trichodromeus*; Type locality: Asia centr., Tadsch., Dschirgatal-ski Raj., Sukran-Schlucht, 2590 m/ Burs-Gletscher-Fuss).

▲ **DISTRIBUTION:** Tajikistan.

sogdianus Bordoni, 1990, see: *penicillatus* Reitter, 1900.

transversus Motschulsky, 1860: 550 (*Geodromus*; Type locality: Alpes du Caucase en Touschéte; [**Note:** See lectotype designation by Bordoni, 1993]).

— Fauvel, 1871a: 136 [= 1872: 110] (*Geodromicus*; synonym of *globulicollis*).

— Bernhauer and Schubert, 1910: 76 (*Geodromicus*; synonym of *globulicollis*).

— Bordoni, 1993: 158 (*Neogeodromicus*; lectotype designation; cited as valid species; characters).

▲ **DISTRIBUTION:** Caucasus.

tumidus Luze, 1903, see: *penicillatus* Reitter, 1900.

Trigonodemus

[11 species; Nearctic and Palaearctic Regions]

Trigonodemus LeConte, 1863a: 56 (species included: *striatus*). **TYPE SPECIES:** *Trigonodemus striatus* LeConte, fixed by monotypy.

— LeConte, 1863: 26 ([nomen nudum]; list of North American species).

— Gemminger and Harold, 1868: 663 (catalog; cited as *Trigonodesmus*).

— Fauvel, 1878d: 231 [= 1878e: 67] (characters).

— Bernhauer and Schubert, 1910: 37 (world catalog; 1 species).

— Leng, 1920: 93 (catalog of North American species).

— Scheerpeltz, 1933: 1032 (world catalog supplement).

— Blackwelder, 1952: 396 (type species: *striatus*).

— Hatch, 1957: 50, 68 (characters; species of Pacific Northwest).

— Moore, 1966: 48, 56 (characters; notes).

— Tikhomirova, 1973a: 137 (checklist of species of USSR).

— Moore and Legner, 1975: 217 (catalog; North America north of Mexico).

— Shibata, 1976: 97 (checklist of species of Japan).

— Moore and Legner, 1979: 196 (characters; notes).

— Watanabe, 1990: 250 (characters; species of Japan).

— Campbell and Davies, 1991: 91 (checklist of species; Alaska and Canada).

— Smetana, 1996d: 2 (review; characters; notes; key to species).

— Smetana, 1996h: 245 (key to species).

— Downie and Arnett, 1996: 434 (characters; species of Northeastern North America).

— Newton, Thayer, Ashe, and Chandler, 2000: 340 (2 Nearctic species; notes; characters in key).

Arimimelus Kraatz, 1877: 104 (species included: *lebioides*). **TYPE SPECIES:** *Arimimelus lebioides* Kraatz, fixed by monotypy.

— Sharp, 1889: 473 (synonym of *Trigonodemus* by citation of *lebioides* in *Trigonodemus*).

— Bernhauer and Schubert, 1910: 37 (synonym of *Trigonodemus*).

— Blackwelder, 1952: 61 (type species: *lebioides*).

— Watanabe, 1990: 250 (synonym of *Trigonodemus*).

— Smetana, 1996d: 2 (synonym of *Trigonodemus*).

— Smetana, 1996h: 245 (key to species).

— Smetana, 2000: 301 (key to species).

Klapperichianellia Hlisenkovský, 1962: 455, 456 (species included: *mirabilis*). **TYPE SPECIES:** *Klapperichianellia mirabilis* Hlisenkovský, fixed by original designation and monotypy.

— Thayer, 1987: 389 (may be synonym of *Trigonodemus*).

— Smetana, 1996d: 2 (synonym of *Trigonodemus*).

audax Smetana, 1996d: 11 (*Trigonodemus*; Type locality: Taiwan: Nantou Hsien, Yushan N.P., S.W. slope blw. Yushan Mn. Pk. 3650 m).

— Smetana, 1996h: 245 (*Trigonodemus*; characters in key).

— Smetana, 2000: 302 (*Trigonodemus*; characters in key).

▲ **DISTRIBUTION:** Taiwan.

- fasciatus** Leech, 1939: 258 (*Trigonodemus*; Type locality: Vancouver, B. C. [British Columbia]).
 — Hatch, 1957: 68 (*Trigonodemus*; characters; British Columbia; Oregon).
 — Smetana, 1996d: 6 (*Trigonodemus*; characters; British Columbia).
 — Smetana, 1996h: 245 (*Trigonodemus*; characters in key).
 — Smetana, 2000: 301 (*Trigonodemus*; characters in key).
 ▲ **DISTRIBUTION:** Canada, USA.
- fungicola** Smetana, 1996d: 9 (*Trigonodemus*; Type locality: China: Sichuan, Gongga Shan, above Camp 3, 3050 m).
 — Smetana, 1996h: 245 (*Trigonodemus*; characters in key).
 — Smetana, 2000: 302 (*Trigonodemus*; characters in key).
 ▲ **DISTRIBUTION:** China.
- lebioides** Kraatz, 1877: 105 (*Arimimelus*; Type locality: Hagi).
 — Sharp, 1889: 473 (*Trigonodemus*; notes; Japan).
 — Scheerpeltz, 1933: 1032 (*Trigonodemus*; catalog).
 — Nakane, 1963a: 82 (*Trigonodemus*; characters; habitus photograph; Japan).
 — Watanabe, 1990: 253 (*Trigonodemus*; characters; Japan).
 — J. Li, 1993: 18 (*Trigonodemus*; China).
 — Smetana, 1996d: 8 (*Trigonodemus*; characters; Japan).
 — Smetana, 1996h: 245 (*Trigonodemus*; characters in key).
 — Smetana, 2000: 302 (*Trigonodemus*; characters in key).
 ▲ **DISTRIBUTION:** Japan, China.
- modestus** Smetana, 2000: 300 (*Trigonodemus*; Type locality: China: W. Sichuan: Ganzi Tibet Aut. Pref., Kangding Co., Daxue Shan, Mu Ge Cuo, ob. See, 15 km NW Kangding, 3700 m, 30°09N, 101°52E).
 ▲ **DISTRIBUTION:** China.
- montanus** Smetana, 1996h: 241 (*Trigonodemus*; Type locality: China: N. Yunnan, Xue Shan nr. Zhongdian, 4000–4100 m).
 — Smetana, 2000: 302 (*Trigonodemus*; characters in key).
 ▲ **DISTRIBUTION:** China.
- mirabilis** Hlissnikovský, 1962: 458 (*Klapperichianellia*; Type locality: China: Fukien, Kuatun, 2300 m, 27.40 nördl. Breite, 114.40 östl. Länge).
 — Schawaller, 1978: 176, 181, 182, 183 (*Klapperichianellia*; notes; habitus outline; type locality).
 — Smetana, 1996d: 13 (*Trigonodemus*; characters; China).
 — Smetana, 1996h: 245 (*Trigonodemus*; characters in key).
 — Smetana, 2000: 302 (*Trigonodemus*; characters in key).
 ▲ **DISTRIBUTION:** China.
- pictus** Smetana, 2000: 295 (*Trigonodemus*; Type locality: China: NW Yunnan, Bai Ma Xue Shan, 35 km S. Dêqên, 4300–4800).
 ▲ **DISTRIBUTION:** China.
- puncticollis** Smetana, 2000: 298 (*Trigonodemus*; Type locality: China: Sichuan, sud Barkam).
 ▲ **DISTRIBUTION:** China.
- schuelkei** Smetana, 1996h: 244 (*Trigonodemus*; Type locality: China: Shaanxi, Qin Ling Shan, 107.56E, 33.45 N, Autoroute km 93 S of Zhouzhi, 108 km SW Xian Mountain Forest, 1650 m).
 — Smetana, 2000: 302 (*Trigonodemus*; characters in key).
 ▲ **DISTRIBUTION:** China.
- striatus** LeConte, 1863a: 57 (*Trigonodemus*; Type locality: Southern States).
 — Fauvel, 1878d: 232 [= 1878e: 68] (*Trigonodemus*; characters; Canada; West Virginia).
 — Bernhauer and Schubert, 1910: 37 (*Trigonodemus*; catalog).
 — Smetana, 1996d: 5 (*Trigonodemus*; characters; Nova Scotia; Ontario; Quebec; New Hampshire; New York).
 — Smetana, 1996h: 245 (*Trigonodemus*; characters in key).

- Downie and Arnett, 1996: 434 (*Trigonodemus*; characters; USA).
 — Smetana, 2000: 301 (*Trigonodemus*; characters in key).

▲ **DISTRIBUTION:** Canada, USA.

Unamis

[5 species; Nearctic Region]

Unamis Casey, 1894: 398, 400 (species included: *truncata*). **TYPE SPECIES:** *Lesteva truncata* Casey, fixed by monotypy.

- Bernhauer and Schubert, 1910: 73 (world catalog; 1 species).
 — Leng, 1920: 95 (catalog of North American species).
 — Blackwelder, 1952: 402 (type species: *truncata*).
 — Hatch, 1957: 49, 56 (characters; key to species of Pacific Northwest).
 — Moore, 1966: 48, 49 (characters; notes).
 — Moore and Legner, 1972: 21 (characters; key to species).
 — Moore and Legner, 1975: 218 (catalog; North America north of Mexico).
 — Moore and Legner, 1979: 198 (characters; notes).
 — Campbell and Davies, 1991: 90 (checklist of species; Alaska and Canada).
 — Newton, Thayer, Ashe, and Chandler, 2000: 341 (5 Nearctic species; notes; characters in key).

bjorkmanae Hatch, 1957: 57 (*Unamis*; Type locality: Crater L., Oregon).

- Moore and Legner, 1972: 21 (*Unamis*; characters).

▲ **DISTRIBUTION:** USA.

columbiensis Hatch, 1957: 56 (*Unamis*; Type locality: Sanca, B. C. [British Columbia]).

- Moore and Legner, 1972: 21 (*Unamis*; characters).

▲ **DISTRIBUTION:** Canada, USA.

fulvipes Fall, 1922: 12 (*Unamis*; Type locality: California: Humboldt County: Korbel).

- Hatch, 1957: 57 (*Unamis*; characters; British Columbia).
 — Moore and Legner, 1972: 21 (*Unamis*; characters).

▲ **DISTRIBUTION:** Canada, USA.

giulianii Moore and Legner, 1972: 21 (*Unamis*; Type locality: California: Inyo County, near Finger Lake, 11,300 feet).

▲ **DISTRIBUTION:** USA.

truncata Casey, 1885a: 322 (*Lesteva*; Type locality: California: Middle Sierras).

- Casey, 1894: 400 (*Unamis*).
 — Bernhauer and Schubert, 1910: 73 (*Unamis*; catalog).
 — Fall, 1922: 13 (*Unamis*; Colorado specimen provisionally referred to genus).
 — Hatch, 1957: 56 (*Unamis*; characters; Idaho; Washington; Oregon).
 — Moore and Legner, 1972: 21 (*Unamis*; characters).

▲ **DISTRIBUTION:** USA.

Uenohadesina

[1 species; Palaearctic Region]

Uenohadesina Smetana, 2000a: 285 (species included: *styx*). **TYPE SPECIES:** *Uenohadesina styx* Smetana, fixed by original designation and monotypy.

styx Smetana, 2000a: 291 (*Uenohadesina*; Type locality: South Korea: Yong'yeon-gul Cave nr. Hwangji, Changseong-eub, Kangweon-do).

▲ **DISTRIBUTION:** South Korea.

Vellica

[1 species; Nearctic Region]

Vellica Casey, 1885a: 321 (species included: *longipennis*). **TYPE SPECIES:** *Vellica longipennis* Casey, fixed by monotypy.

- Casey, 1894: 401 (notes).
 — Bernhauer and Schubert, 1910: 74 (world catalog; 1 species).

- Leng, 1920: 95 (catalog of North American species).
- Blackwelder, 1952: 403 (type species: *longipennis*).
- Hatch, 1957: 49, 61 (characters; species of Pacific Northwest).
- Moore, 1966: 48, 49 (characters; notes).
- Moore and Legner, 1975: 219 (catalog; North America north of Mexico).
- Moore and Legner, 1979: 199 (characters; notes).
- Newton, Thayer, Ashe, and Chandler, 2000: 341 (1 Nearctic species; notes; characters in key).

longipennis Casey, 1885a: 321 (*Vellica*; Type locality: California: Middle Sierras).

- Bernhauer and Schubert, 1910: 74 (*Vellica*; catalog).
- Hatch, 1957: 61 (*Vellica*; characters; British Columbia).
- Campbell and Davies, 1991: 90 (*Vellica*; checklist of species; Canada).

▲ **DISTRIBUTION:** Canada, USA.

Xenicopoda

[1 species; Nearctic Region]

Xenicopoda Moore and Legner, 1971: 51 (species included: *helenae*). **TYPE SPECIES:** *Xenicopoda helenae* Moore and Legner, fixed by original designation and monotypy.

- Moore and Legner, 1975: 220 (catalog; North America north of Mexico).
- Thayer, 1978: 146 (characters; notes; discussion).
- Moore and Legner, 1979: 200 (characters; notes).
- Newton, Thayer, Ashe, and Chandler, 2000: 341 (1 Nearctic species; notes; characters in key).

helenae Moore and Legner, 1971: 53 (*Xenicopoda*; Type locality: Mt. Wilson, Calif.).

- Thayer, 1978: 143 (*Xenicopoda*; characters; notes; California).

▲ **DISTRIBUTION:** USA.

Tribe Aphaenostemmini

Aphaenostemmini Peyerimhoff, 1914: 248 (genera included: *Aphaenostemmus*). **TYPE GENUS:** *Aphaenostemmus* (see Newton and Thayer, 1992: 55).

- Scheerpeltz, 1933: 1031 (world catalog supplement).
- Peyerimhoff, 1939: 212 (characters in key).
- Scheerpeltz, 1940: 14 (key to Palaearctic genera).
- Newton and Thayer, 1995: 247–286, 295 (phylogenetic relationships; characters; discussion; tribe of Omaliinae; includes *Aphaenostemmus*, *Giulianium*).
- Newton, Thayer, Ashe, and Chandler, 2000: 342 (characters; notes).

Aphaenostemminae Peyerimhoff, 1914.

- Newton and Thayer, 1992: 55 (summary of current classification; notes).

Aphaenostemmus

[5 species; Oriental and Palaearctic Regions]

Aphaenostemmus Peyerimhoff, 1914: 245 (species included: *bordei*). **TYPE SPECIES:**

- Aphaenostemmus bordei* Peyerimhoff, fixed by monotypy.
- Winkler, 1925: 326 (catalog for Palaearctic region).
- Scheerpeltz, 1933: 1031 (world catalog supplement).
- Normand, 1935: 357 (list of species of Tunisia).
- C. Koch, 1936c: 332 (key to species).
- Peyerimhoff, 1939: 211 (characters; key to North African species).
- Blackwelder, 1952: 58 (type species: *bordei*).
- Kocher, 1958: 92 (checklist of species; Morocco).
- Newton and Thayer, 1995: 296 (list of synonyms).

Torretassoella C. Koch, 1936b: 126 (species included: *testacea*). **TYPE SPECIES:** *Torretassoella testacea* C. Koch, fixed by monotypy.

- C. Koch, 1936c: 332 (synonym of *Aphaenostemmus*).
- Peyerimhoff, 1939: 211 (synonym of *Aphaenostemmus*).
- Blackwelder, 1952: 391 (type species: *testacea*; synonym of *Aphaenostemmus*).

Paratriga Cameron, 1940c: 209 (species included: *indica*, *associata*). **TYPE SPECIES:** *Paratriga indica* Cameron, fixed by original designation.

— Blackwelder, 1952: 294 (type species: *indica*).

— Newton and Thayer, 1995: 296 (synonym of *Aphaenostemmus*).

associatus Cameron, 1940c: 209 (*Paratriga*; Type locality: United Provinces: Dehra Dun).

— Newton and Thayer, 1995: 296 (*Aphaenostemmus*).

▲ **DISTRIBUTION:** India.

bordei Peyerimhoff, 1914: 248 (*Aphaenostemmus*; Type locality: Biskra).

— Scheerpeltz, 1933: 1031 (*Aphaenostemmus*; catalog).

— C. Koch, 1936c: 332 (*Aphaenostemmus*; characters; Algeria).

— Peyerimhoff, 1939: 213 (*Aphaenostemmus*; characters in key).

▲ **DISTRIBUTION:** Algeria.

himalayicus Bernhauer, 1943a: 170 (*Aphaenostemmus*; Type locality: Dehra-Dun: Bhagwan-tung, Himalaya).

▲ **DISTRIBUTION:** India.

indicus Cameron, 1940c: 209 (*Paratriga*; Type locality: United Provinces: Dehra Dun).

— Newton and Thayer, 1995: 296 (*Aphaenostemmus*).

▲ **DISTRIBUTION:** India.

testaceus C. Koch, 1936b: 126, 133 (*Torretassoella*; Type locality: Aegypten: Wadi Digla. Sinai: Wadi Isla; Wadi Luotaie).

— C. Koch, 1936c: 332 (*Aphaenostemmus*; characters; Egypt).

— Peyerimhoff, 1939: 213 (*Aphaenostemmus*, transferred from *Torretassoella*; characters in key).

— Coiffait, 1979a: 163, 179 (*Aphaenostemmus*; illustrations of forebody and aedeagus; Saudi Arabia).

— Gusarov, 1997: 278 (*Aphaenostemmus*; Oman).

▲ **DISTRIBUTION:** Egypt, Saudi Arabia, Oman.

Giulianium

[3 species; Nearctic and Palaearctic Regions]

Giulianium Moore, 1976: 56 (species included: *campbelli*). **TYPE SPECIES:** *Giulianium campbelli* Moore, fixed by original designation and monotypy.

— Moore and Legner, 1979: 256 (characters; notes).

— Smetana and Campbell, 1980: 1069 (characters).

— Newton and Thayer, 1995: 295 (*Aphaenostemmini*).

— Ahn and Ashe, 1999: 159 (characters; key to species).

— Newton, Thayer, Ashe, and Chandler, 2000: 342 (3 Nearctic species; notes; characters in key).

alaskanum Ahn and Ashe, 1999: 162 (*Giulianium*; Type locality: USA: Alaska: Seward. Also cited from Japan).

▲ **DISTRIBUTION:** USA, Japan.

campbelli Moore, 1976: 57 (*Giulianium*; Type locality: California: Humboldt County: Bear Harbor).

— Ahn and Ashe, 1999: 162 (*Giulianium*; characters; USA).

▲ **DISTRIBUTION:** USA.

newtoni Ahn and Ashe, 1999: 163 (*Giulianium*; Type locality: USA: California: San Mateo Co., Moss Beach).

▲ **DISTRIBUTION:** USA.

Tribe Corneolabiini

Corneolabiini Steel, 1950: 54 (including key to genera; genera included: *Corneolabium*, *Paracorneolabium*, *Metacorneolabium*). **TYPE GENUS:** *Corneolabium*, by original designation.

— Thayer, 1985: 115 (characters; notes).

— Newton, 1985: 198 (notes on austral distribution).

- Newton and Thayer, 1992: 58 (tribe of Omaliinae).
- Newton and Thayer, 1995: 247–286, 295 (phylogenetic discussion; characters; discussion; includes *Corneolabium*, *Paracorneolabium*; *Metacorneolabium*).
- Klimaszewski, Newton, and Thayer, 1996: 146 (list of New Zealand genera; number of New Zealand species).

Corneolabium

[1 species; Australian Region]

Corneolabium Steel, 1950: 54 (species included: *mandibulare*). **TYPE SPECIES:** *Corneolabium mandibulare* Steel, fixed by original designation and monotypy.

- Thayer, 1985: 115, 163 (characters; phylogenetic relationships).

mandibulare Steel, 1950: 56 (*Corneolabium*; Type locality: New Zealand: West Plains).

- Klimaszewski, Newton, and Thayer, 1996: 146 (*Corneolabium*; endemic to New Zealand).

▲ **DISTRIBUTION:** New Zealand.

Metacorneolabium

[22 species; Neotropical and Australian Regions]

Metacorneolabium Steel, 1950: 62 (species included: *minus*, cited as *minor*). **TYPE SPECIES:** *Metacorneolabium minus* Steel, fixed by original designation and monotypy.

- Thayer, 1985: 116, 122, 135, 144, 163 (characters; revision of and key to species; habitats; phylogeny; biogeography).

Metomalium Coiffait and Saiz, 1968: 449 (species included: *chilensis*). **TYPE SPECIES:** *Metomalium chilense* Coiffait and Saiz, fixed by original designation and monotypy.

- Thayer, 1985: 116 (synonym of *Metacorneolabium*).

alulatum Thayer, 1985: 137 (*Metacorneolabium*; Type locality: Australia: Tasmania: W side Lake St. Clair, c. 750 m).

▲ **DISTRIBUTION:** Australia.

batyle Thayer, 1985: 155 (*Metacorneolabium*; Type locality: Chile: Concepción Prov.: Ramuncho).

▲ **DISTRIBUTION:** Chile.

bipertica Thayer, 1985: 159 (*Metacorneolabium*; Type locality: Chile: Osorno Prov.: Parque Nacional Puyehue, Antillanca road, 965 m).

▲ **DISTRIBUTION:** Chile.

chilense Coiffait and Saiz, 1968: 450 (*Metomalium*; cited as *chilensis*; Type locality: Chile: Nahuelbuta, Malleco).

- Thayer, 1985: 148 (*Metacorneolabium*; emended to *chilense*; characters; Chile).

▲ **DISTRIBUTION:** Chile.

convexum Thayer, 1985: 123 (*Metacorneolabium*; Type locality: New Zealand: NC: 8.0 km S [town of] Arthur's Pass, 670 m).

▲ **DISTRIBUTION:** New Zealand.

dactylotum Thayer, 1985: 154 (*Metacorneolabium*; Type locality: Chile: Osorno Prov.: Parque Nacional Puyehue, Antillanca road, 965 m).

▲ **DISTRIBUTION:** Chile.

darlingtoni Thayer, 1985: 138 (*Metacorneolabium*; Type locality: Australia: Tasmania: Lower Gordon River, 42.31S, 145.45E – 42.32S, 145.47E7).

▲ **DISTRIBUTION:** Australia.

diffusum Thayer, 1985: 156 (*Metacorneolabium*; Type locality: Chile: Llanquihue Prov.: Lago Chapo, 13.5 km E Correntoso, 310 m).

▲ **DISTRIBUTION:** Chile.

echidna Thayer, 1985: 142 (*Metacorneolabium*; Type locality: Australia: Victoria: Mt. Buffalo, 500 m).

▲ **DISTRIBUTION:** Australia.

- exochlum** Thayer, 1985: 158 (*Metacorneolabium*; Type locality: Chile: Cautín Prov.: Volcán Villarrica, 1250 m).
▲ **DISTRIBUTION:** Chile.
- exuberatum** Thayer, 1985: 145 (*Metacorneolabium*; Type locality: Chile: Cautín Prov.: Volcán Villarrica, 1250 m).
▲ **DISTRIBUTION:** Chile.
- gigas** Thayer, 1985: 124 (*Metacorneolabium*; Type locality: New Zealand: BR: Mt. Murchison, 1420 m).
▲ **DISTRIBUTION:** New Zealand.
- hokitika** Thayer, 1985: 132 (*Metacorneolabium*; Type locality: New Zealand: WD: Hokitika, Glow Worm Dell, 5 m).
▲ **DISTRIBUTION:** New Zealand.
- logor** Thayer, 1985: 143 (*Metacorneolabium*; Type locality: Australia: Tasmania: Lower Gordon River, 42.42S, 145.53E-42.41.5S, 145.53E).
▲ **DISTRIBUTION:** Australia.
- minus** Steel, 1950: 64 (*Metacorneolabium*; cited as *minor*; Type locality: New Zealand: Mount Hutt).
— Thayer, 1985: 130 (*Metacorneolabium*; emended from *minor* to *minus*; characters; New Zealand).
— Emberson, 1998: 32 (*Metacorneolabium*; collecting notes; Chatham Islands).
▲ **DISTRIBUTION:** New Zealand, Chatham Islands.
- pilatum** Thayer, 1985: 153 (*Metacorneolabium*; Type locality: Chile: Osorno Prov.: Parque Nacional Puyehue, Volcán Casa Blanca, 1370 m).
▲ **DISTRIBUTION:** Chile.
- pyriforme** Thayer, 1985: 125 (*Metacorneolabium*; Type locality: New Zealand: BR: Nelson Lakes N. P., Lake Rotoiti, 600 m).
▲ **DISTRIBUTION:** New Zealand.
- rangipo** Thayer, 1985: 133 (*Metacorneolabium*; Type locality: New Zealand: TO: Rangipo Intake, 36 road km S Turangi, 900 m).
▲ **DISTRIBUTION:** New Zealand.
- rivalis** Thayer, 1985: 147 (*Metacorneolabium*; Type locality: Chile: Osorno Prov.: 7.7 km NE Termas de Puyehue, 200 m).
▲ **DISTRIBUTION:** Chile.
- soror** Thayer, 1985: 161 (*Metacorneolabium*; Type locality: Chile: Malleco Prov.: 12 km E Malalcahuello, 1350 m).
▲ **DISTRIBUTION:** Chile.
- victas** Thayer, 1985: 135 (*Metacorneolabium*; Type locality: Australia: Tasmania: Rufus Canal, 13.5 km WNW Derwent Bridge, 800 m).
▲ **DISTRIBUTION:** Australia.
- zanotium** Thayer, 1985: 129 (*Metacorneolabium*; Type locality: New Zealand: SL: Owaka, Glenomaru Reserve).
▲ **DISTRIBUTION:** New Zealand.

Paracorneolabium

[1 species; Australian Region]

- Paracorneolabium* Steel, 1950: 59 (species included: *brouni*). **TYPE SPECIES:** *Paracorneolabium brouni* Steel, fixed by original designation and monotypy.
— Thayer, 1985: 115-116, 162-171 (characters; phylogenetic relationships).
- brouni** Steel, 1950: 60 (*Paracorneolabium*; Type locality: New Zealand: Hollyd.; according to Steel this is probably an abbreviation for Hollyford).
— Klimaszewski, Newton, and Thayer, 1996: 146 (*Paracorneolabium*; endemic to New Zealand).
▲ **DISTRIBUTION:** New Zealand.

Tribe Coryphiini

Coryphiini Jakobson, 1908.

- Portevin, 1929: 430 (key to French genera).
- Joy, 1932: 97 (key to British genera).
- Hatch, 1957: 49 (characters; key to genera of Pacific Northwest).
- Arnett, 1963: 241, 259 (key to North American genera; characters; list of North American genera).
- Campbell, 1978a: 22 (characters; key to genera and species; *Euedectus*, *Haida*, *Pseudohaida* excluded; biological notes).
- Moore and Legner, 1979: 161 (characters; tabular key to genera of North America north of Mexico).
- Muona, 1979: 18 (list of Scandinavian species).
- Outerelo and Gamarra, 1985: 82 (key to genera of Iberian Peninsula).
- Watanabe, 1990: 264, 377 (characters; key to genera of Japan; relationships of genera).
- Zerche, 1989: 27 (supplement to Lohse, 1964).
- Zerche, 1990 (monograph; phylogeny; characters; checklist of and keys to taxa of Palaearctic region; natural history notes; systematic position and taxonomic status of some Nearctic taxa changed).
- Newton and Thayer, 1992: 58 (tribe of Omaliinae).
- Zerche, 1993: 352, 354–357 (*Geodromicus*, *Liophilydrodes* and *Philydrodes* placed in *Hygrogeus* group of Anthophagini; bionomics; Zoogeography).
- Newton and Thayer, 1995: 247–286, 294 (phylogenetic relationships; characters; discussion).
- M. Hansen, 1996: 95 (list of Danish species).
- Newton, Thayer, Ashe, and Chandler, 2000: 285 (key to Nearctic genera).
- Newton, Thayer, Ashe, and Chandler, 2000: 341 (characters; notes).

Subtribe Boreaphilina

- Boreaphilina Zerche, 1990: 22, 158 (genera included: *Archaeoboreaphilus*, *Caloboreaphilus*, *Boreaphilus*, *Niphetodes*, *Hypsonothrus*). **TYPE GENUS:** *Boreaphilus* (see Newton and Thayer, 1992: 58).
- Newton and Thayer, 1992: 58 (subtribe of Coryphiini).
 - Newton, Thayer, Ashe, and Chandler, 2000: 341 (characters; notes).
- Boréaphilaires Mulsant and Rey, 1880: 391 (genera included: *Coryphium*, *Euedectus*, *Boreaphilus*). **TYPE GENUS:** *Boreaphilus* (see Newton and Thayer, 1992: 58).
- Newton and Thayer, 1992: 58 (synonym of Boreaphilina).

Archaeoboreaphilus

[6 species; Palaearctic Region]

Archaeoboreaphilus Zerche, 1990: 158 (species included: *nikkoensis*, *miyamorii*, *tateoi*, *fuscus*, *iwakisanensis*, *yasutoshii*). **TYPE SPECIES:** *Boreaphilus nikkoensis* Sawada, fixed by original designation.

fuscus Watanabe, 1988: 53 (*Coryphium*; Type locality: Japan: Honshu: Yamaguchi Pref.: Azami-ga-take, Kanochô).

- Watanabe, 1990: 362 (*Coryphium*; characters; Japan).
- Zerche, 1990: 164 (*Archaeoboreaphilus*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

iwakisanensis Watanabe, 1988: 54 (*Coryphium*; Type locality: Japan: Honshu: Aomori Pref.: Mt. Iwakisan).

- Watanabe, 1990: 363 (*Coryphium*; characters; Japan).
- Zerche, 1990: 165 (*Archaeoboreaphilus*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

miyamorii Watanabe, 1988: 49 (*Coryphium*; Type locality: Japan: Hokkaido: Horobetsu-kôzan, Iburi).

- Watanabe, 1990: 359 (*Coryphium*; characters; Japan).
- Zerche, 1990: 163 (*Archaeoboreaphilus*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

nikkoensis Sawada, 1964: 36 (*Boreaphilus*; Type locality: Japan: Honshu: Pref. Tochigi: Chuzenji near Nikko).

- Watanabe, 1988: 56 (*Coryphium*; characters; Japan).
- Watanabe, 1990: 364 (*Coryphium*; characters; Japan).
- Zerche, 1990: 159 (*Archaeoboreaphilus*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

tateoi Watanabe, 1988: 52 (*Coryphium*; Type locality: Japan: Honshu: Nara Pref.: Tōnomine, Yamato).

- Watanabe, 1990: 361 (*Coryphium*; characters; Japan).
- Zerche, 1990: 164 (*Archaeoboreaphilus*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

yasutoshii Watanabe, 1988: 58 (*Coryphium*; Type locality: Japan: Honshu: Gunma Pref.: near Edozawa, Mt. Jōshū-Hotaka).

- Watanabe, 1990: 366 (*Coryphium*; characters; Japan).
- Zerche, 1990: 166 (*Archaeoboreaphilus*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

Boreaphilus

[23 species; Nearctic and Palaeartic Regions]

Boreaphilus C. Sahlberg, 1832: 433 (species included: *henningianus*). **TYPE SPECIES:** *Boreaphilus henningianus* C. Sahlberg, fixed by monotypy.

- Zetterstedt, 1838: 72 (characters).
- Erichson, 1840: 899 (characters).
- Haliday, 1841: 186 (characters).
- Schaum, 1852: 31 (list of species; Europe).
- Lacordaire, 1854: 137 (characters; notes; list of species).
- Fairmaire and Laboulbène, 1856: 632 (characters).
- Kraatz, 1857: 39 (characters).
- Jacquelin du Val, 1857: 67 (characters).
- Redtenbacher, 1857: 245 (characters).
- Thomson, 1858: 37 (characters).
- Thomson, 1859: 49 (characters; type species: *henningianus*).
- Schaum, 1859: 32 (catalog; European species).
- Thomson, 1861: 183 (characters).
- Gemminger and Harold, 1868: 664 (catalog).
- Jacquelin du Val, 1868: 79 (catalog; European species).
- Fauvel, 1871a: 106 [= 1872: 80] (characters).
- Redtenbacher, 1874: 273 (characters).
- Fauvel, 1875a:V [= 1875b: 207] (catalog).
- Mulsant and Rey, 1880: 401 (characters).
- Heyden, 1880: 82 (list of species of Siberian region).
- Duvivier, 1883: 197 (catalog).
- Seidlitz, 1891: 349 (key to some European species).
- Heyden, Reitter, and Weise, 1891: 118 (list of species of Europe and Caucasus).
- Heyden, 1893: 48 (list of species of Siberian region).
- Ganglbauer, 1895: 699 (characters; key to middle European species).
- Heyden, Reitter, and Weise, 1906: 137 (list of species of Europe and Caucasus).
- Bernhauer and Schubert, 1910: 84 (world catalog; 8 species).
- Notman, 1918 (characters; notes).
- Leng, 1920: 95 (catalog of North American species).
- Winkler, 1925: 337 (catalog for Palaeartic region).
- Porta, 1926: 33 (characters; species of Italy).
- Scheerpeltz, 1933: 1072 (world catalog supplement).
- Normand, 1935: 358 (list of species of Tunisia).
- Horion, 1935: 167 (characters; key to species of central Europe).
- Palm, 1948: 129 (characters; species of Sweden).

- Blackwelder, 1952: 83 (type species: *henningianus*).
- Smetana, 1959a: 196 (list of species collected in Albania).
- Horion, 1963: 154 (list of central European species).
- Székessy, 1963: 24 (characters).
- Lohse, 1964: 69 (characters; key to central European species).
- Scheerpeltz, 1968a: 19 (catalog of Austrian species).
- Tikhomirova, 1973a: 141 (checklist of species of USSR).
- Moore and Legner, 1975: 186 (catalog; North America north of Mexico).
- Shibata, 1976: 125 (checklist of species of Japan).
- Campbell, 1978a: 24, 58 (key to species; characters; notes).
- Moore and Legner, 1979: 162 (characters; notes).
- Muona, 1979: 18 (list of Scandinavian species).
- Tóth, 1982: 107 (characters; habitus; species of Hungary).
- Muona and Viramo, 1986: 16 (list of species of northeastern Finland).
- Zanetti, 1987: 434 (characters; habitus; key to species of Italy).
- Zerche, 1989: 123, 129 (characters; notes; distributional dates discussed).
- Watanabe, 1990: 370 (characters; key to species of Japan).
- Zerche, 1990: 169, 286, 306 (characters; key to species of Palaearctic region; phylogeny; distribution).
- Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
- Zerche, 1993: 344, 350, 355 (modification of key; phylogeny; distribution; distribution in Nearctic and Palaearctic regions compared).
- Siitonen, 1993: 230 (list of Finnish species).
- Zanetti, 1995: 10 (list of species of Italy).
- Downie and Arnett, 1996: 436 (characters; key to species of Northeastern North America).
- Kashcheev, 1999: 144 (characters).
- Newton, Thayer, Ashe, and Chandler, 2000: 341 (1 Nearctic species; notes; characters in key).

Chevrieria Heer, 1839: 188 (species included: *velox*). **TYPE SPECIES:** *Chevrieria velox* Heer, fixed by monotypy.

- Heer, 1841: 571 (notes).
- Schaum, 1852: 30 (list of species; Europe).
- Lacordaire, 1854: 135 (characters; notes; list of species).
- Fairmaire and Laboulbène, 1856: 631 (characters).
- Jacquelin du Val, 1857: 67 (synonym of *Boreaphilus*).
- Redtenbacher, 1857: 241 (characters).
- Redtenbacher, 1857: 992 (synonym of *Boreaphilus*).
- Schaum, 1859: 32 (synonym of *Boreaphilus*).
- Gemminger and Harold, 1868: 664 (synonym of *Boreaphilus*).
- Fauvel, 1871a: 106 [= 1872: 80] (synonym of *Boreaphilus*).
- Ganglbauer, 1895: 699 (synonym of *Boreaphilus*).
- Bernhauer and Schubert, 1910: 84 (synonym of *Boreaphilus*).
- Scheerpeltz, 1933: 1072 (synonym of *Boreaphilus*).
- Blackwelder, 1952: 99 (type species: *velox*).
- Campbell, 1978a: 59 (synonym of *Boreaphilus*).
- Zanetti, 1987: 434 (synonym of *Boreaphilus*).
- Zerche, 1990: 169 (synonym of *Boreaphilus*).

Boreophilus Agassiz, 1847: 49 (emendation of *Boreaphilus*). **TYPE SPECIES:** *Boreophilus henningianus* C. Sahlberg, fixed by objective synonymy with *Boreaphilus*.

- Blackwelder, 1952: 84 (type species).
- Campbell, 1978a: 59 (synonym of *Boreaphilus*).

Catocopa Gistel, 1856: 29. **TYPE SPECIES:** *Chevrieria velox* Heer, fixed by monotypy.

- Blackwelder, 1952: 96 (synonym of *Boreaphilus*; type species: *velox*).
- Zerche, 1990: 169 (synonym of *Boreaphilus*).

albanicus Zerche, 1990: 197 (*Boreaphilus*; Type locality: Nordalban.: Alpen Casa Valbones).

▲ **DISTRIBUTION:** Albania.

americanus Notman, 1918, see: *henningianus* C. Sahlberg, 1832.

angulatus Fairmaire and Laboulbène, 1856, see: *velox* Heer, 1839.

angustatus Jacquelin du Val, 1857, see: *velox* Heer, 1839.

astur Sharp, 1873: 266 (*Boreaphilus*; Type locality: Astúrias á mitad de camino próximamente entre Reinosa y Potes).

— Bernhauer and Schubert, 1910: 84 (*Boreaphilus*; catalog).

— Zerche, 1990: 208 (*Boreaphilus*; characters; Spain).

▲ **DISTRIBUTION:** Spain.

bertiae Zerche, 1990: 203 (*Boreaphilus*; Type locality: Sède de Pau, Basses Pyrénées = Pyrénées-Atlantiques).

— Jarrige, 1946a: 111 (*Boreaphilus*; cited as *astur*; [Note: Misidentified according label date cited by Zerche, 1990: 203]; France).

▲ **DISTRIBUTION:** France.

birostratus Handschin, 1920, see: *Coryphium*.

brevicollis Haliday, 1841, see: *Coryphium*.

carinthiacus Ganglbauer, 1892: 17 (*Boreaphilus*; Type locality: Gipfel der Petzen in Kärnten, 2100 m).

— Ganglbauer, 1895: 700 (*Boreaphilus*; characters; Carinthia).

— Bernhauer and Schubert, 1910: 84 (*Boreaphilus*; catalog).

— Horion, 1963: 155 (*Boreaphilus*; Austria).

— Lohse, 1964: 69 (*Boreaphilus*; characters; central Europe).

— Zanetti, 1984a: 50 (*Boreaphilus*; characters).

— Zanetti, 1987: 439 (*Boreaphilus*; characters; not in Italy).

— Lucht, 1987: 91 (*Boreaphilus*; checklist; Austria).

— Zerche, 1990: 194 (*Boreaphilus*; characters; Carinthia).

— Zerche, 1993: 353 (*Boreaphilus*; Austria).

▲ **DISTRIBUTION:** Austria.

cazorlaensis Zerche, 1990: 205 (*Boreaphilus*; Type locality: Prov. Jaen, Sierra de Cazorla, 1000 m).

▲ **DISTRIBUTION:** Spain.

fuelscheri Zerche, 1990: 221 (*Boreaphilus*; Type locality: Kreta: Lassithi-Hochebene).

▲ **DISTRIBUTION:** Crete.

graciliformis Zerche, 1990: 183 (*Boreaphilus*; Type locality: Japan: Yokohama).

— Watanabe, 1990: 375 (*Boreaphilus*; cited as *lewisianus* but spelled as *liwisianus*; [Note: Misidentification according to Zerche, 1993: 352]; characters; Japan).

▲ **DISTRIBUTION:** Japan.

guadalupensis Fagel, 1960c: 222 (*Boreaphilus*; Type locality: Espagne: Estrémadure: Guadalupe).

— Zerche, 1990: 212 (*Boreaphilus*; characters; Spain).

▲ **DISTRIBUTION:** Spain.

guadarramus Sharp, 1873: 266 (*Boreaphilus*; Type locality: Sierra Guadarrama, am Escorial; [Note: See lectotype designation by Zerche, 1990]).

— Fauvel, 1873b: 117 [= 1873c: 10] (*Boreaphilus*; synonym of *velox*).

— Bernhauer and Schubert, 1910: 85 (*Boreaphilus*; synonym of *velox*).

— Zerche, 1990: 200 (*Boreaphilus*; valid species; lectotype designation: Sierra Guadarrama, am Escorial; characters; Spain; Portugal).

— Outerelo, Gamarra, and Aranda, 1993: 125 (*Boreaphilus*; wing polymorphism; illustrations; Spain).

▲ **DISTRIBUTION:** Spain, Portugal.

henningianus C. Sahlberg, 1832: 433 (*Boreaphilus*; Type locality: Lapponia borealis: lacus Mandujärvi; [Note: See lectotype designation by Zerche, 1990]).

— Zetterstedt, 1838: 72 (*Boreaphilus*; characters; habitat; Lapland).

— Erichson, 1840: 899 (*Boreaphilus*; characters; Lapland).

- Haliday, 1841: 187 (*Boreaphilus*; characters; Finland).
 - Motschulsky, 1845a: 38 (*Boreaphilus*; notes; Russia).
 - Kraatz, 1857: 41 (*Boreaphilus*; [**Note:** Bernhauer and Schubert, 1910: 84 cited *henningianus* Kraatz as a synonym of *henningianus* C. Sahlberg; Kraatz did not describe the species as new, he attributed it to Sahlberg]; characters; Lapland; Finland).
 - Redtenbacher, 1857: 245 (*Boreaphilus*; characters; Lapland).
 - Thomson, 1859: 49 (type species of *Boreaphilus*).
 - Hochhuth, 1862: 103 (*Boreaphilus*; Russia).
 - Redtenbacher, 1874: 273 (*Boreaphilus*; characters).
 - Seidlitz, 1875: 243 (*Boreaphilus*; characters; Baltic region).
 - J. Sahlberg, 1876: 209 (*Boreaphilus*; characters; Finland).
 - Poppius, 1909: 7 (*Boreaphilus*; Lena Valley, Siberia).
 - Bernhauer and Schubert, 1910: 84 (*Boreaphilus*; catalog).
 - Scheerpeltz, 1933: 1072 (*Boreaphilus*; catalog).
 - Horion, 1935: 168 (*Boreaphilus*; characters; Germany).
 - Palm, 1948: 129 (*Boreaphilus*; characters; Sweden; Norway; Finland).
 - Horion, 1963: 156 (*Boreaphilus*; Norway; Sweden; Finland; Russia; Siberia to Lena valley; Germany).
 - Lohse, 1964: 69 (*Boreaphilus*; cited as *henningsianus*; characters; central Europe).
 - Steel, 1964a: 250 (*Boreaphilus*; Alaska).
 - Ashworth, 1972: 214 (*Boreaphilus*; late-glacial subfossil; Britain).
 - Campbell, 1978a: 61 (*Boreaphilus*; characters; Manitoba; New Brunswick; Ontario; Quebec; Yukon Territory; Alaska; Massachusetts; New Hampshire; New Jersey; New York).
 - Lucht, 1987: 91 (*Boreaphilus*; checklist; Germany; Sweden).
 - Zerche, 1989: 129 (*Boreaphilus*; correction of name).
 - Zerche, 1990: 177 (*Boreaphilus*; lectotype designation; characters; Norway; Sweden; Finland; Russia; Mongolia; Germany).
 - Campbell and Davies, 1991: 89 (*Boreaphilus*; checklist of species; Alaska and Canada).
 - Zerche, 1993: 353 (*Boreaphilus*; Germany; Canada).
 - Downie and Arnett, 1996: 436 (*Boreaphilus*; characters; Canada; USA).
 - Lemdahl and Gustavsson, 1997: 181 (*Boreaphilus*; collected in lateglacial and middle Holocene deposits; Sweden).
 - Ryabukhin, 1999: 34 (*Boreaphilus*; catalog; habitat; distribution; northeastern Russia).
 - ▲ **DISTRIBUTION:** Sweden, Norway, Finland, Germany, Russia, Mongolia, Canada, USA.
- longicornis* J. Sahlberg, 1876: 209 (*Boreaphilus*; variety of *henningianus*; Type locality: Finnmarken; [**Note:** See lectotype designation by Zerche, 1990]).
- Bernhauer and Schubert, 1910: 84 (*Boreaphilus*; variety of *henningianus*).
 - Zerche, 1990: 177 (*Boreaphilus*; lectotype designation; synonym of *henningianus*).
- sahlbergi* Poppius, 1904: 106 (*Boreaphilus*; Type locality: Nordost-Sibirien, Umgebungen von Shigansk [67° n. Br.] an der unteren Lena).
- Poppius, 1909: 7 (*Boreaphilus*; Lena Valley, Siberia).
 - Bernhauer and Schubert, 1910: 85 (*Boreaphilus*; catalog).
 - Zerche, 1990: 177 (*Boreaphilus*; synonym of *henningianus*).
- volans* J. Sahlberg, 1911: 47 (*Boreaphilus*; Type locality: prope Helsingforsiam).
- Scheerpeltz, 1933: 1073 (*Boreaphilus*; catalog).
 - Zerche, 1990: 178 (*Boreaphilus*; synonym of *henningianus*).
- americanus* Notman, 1918: 188 (*Boreaphilus*; Type locality: Roselle Park, Union Co., N.J.).
- Scheerpeltz, 1933: 1072 (*Boreaphilus*; catalog).
 - Steel, 1964a: 250 (*Boreaphilus*; may be synonym of *henningianus*).
 - Campbell, 1978a: 61 (*Boreaphilus*; synonym of *henningianus*).
 - Zerche, 1990: 178 (*Boreaphilus*; synonym of *henningianus*).
- spectabilis* Filatova, 1981: 17 (*Boreaphilus*; Type locality: Primorskii Krai, Spasskii r-n, 3 km IUB pos. Evseevka).
- Zerche, 1990: 178 (*Boreaphilus*; synonym of *henningianus*).

hokkaidensis Zerche, 1993: 347 (*Boreaphilus*; Type locality: Japan: Hokkaido: Kushiro marsh, Iwahogi, 5 m. Also cited from Sakhalin).

▲ **DISTRIBUTION:** Japan, Russia.

hummleri Bernhauer, 1935, see: *velox* Heer, 1839.

japonicus Sharp, 1874: 96 (*Boreaphilus*; Type locality: Nagasaki; [Note: See lectotype designation by Zerche, 1990]).

— Bernhauer and Schubert, 1910: 84 (*Boreaphilus*; catalog).

— Nakane, 1963a: 83 (*Boreaphilus*; characters; habitus photograph; Japan).

— Watanabe, 1990: 373 (*Boreaphilus*; characters; Japan).

— Zerche, 1990: 185 (*Boreaphilus*; lectotype designation; characters; Japan; Russia).

— Zerche, 1993: 353 (*Boreaphilus*; Japan).

— J. Li, 1993: 19 (*Boreaphilus*; China).

▲ **DISTRIBUTION:** Japan, China, Russia.

kurentzovi Tikhomirova, 1973: 157 (*Boreaphilus*; Type locality: Suputinskii zapovednik).

— Zerche, 1990: 185 (*Boreaphilus*; synonym of *japonicus*).

kurentzovi Tikhomirova, 1973, see: *japonicus* Sharp, 1874.

lewisianus Sharp, 1874: 96 (*Boreaphilus*; Type locality: Kobé).

— Bernhauer and Schubert, 1910: 84 (*Boreaphilus*; catalog).

— Zerche, 1990: 175 (*Boreaphilus*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

longicornis J. Sahlberg, 1876, see: *henningianus* C. Sahlberg, 1832.

longicornis Roubal, 1941, see: *velox* Heer, 1839.

maroccanus Zerche, 1990: 223 (*Boreaphilus*; Type locality: Morocco: High Atlas, 55 km S. Marrakech nr. Imlil).

— Outerelo, Gamarra, and Aranda, 1993: 125 (*Boreaphilus*; illustration of aedeagus; Spain).

▲ **DISTRIBUTION:** Morocco, Spain.

melichari Jureček, 1910: 3 (*Boreaphilus*; Type locality: Trienter Alpen bei Folgaria, 1200 m).

— Scheerpeltz, 1933: 1072 (*Boreaphilus*; catalog).

— Horion, 1963: 155 (*Boreaphilus*; Italy; Austria).

— Lohse, 1964: 69 (*Boreaphilus*; characters; central Europe).

— Zanetti, 1984a: 50 (*Boreaphilus*; characters).

— Zanetti, 1987: 437 (*Boreaphilus*; characters; Italy).

— Lucht, 1987: 91 (*Boreaphilus*; checklist; Austria).

— Zerche, 1990: 195 (*Boreaphilus*; characters; Italy; Austria).

— Zanetti, 1995: 10 (*Boreaphilus*; Italy).

▲ **DISTRIBUTION:** Austria, Italy.

nearcticus Blair, 1933, see: *Holoboreaphilus*.

nepalicus Coiffait, 1977, see: *Coryphium*.

nikkoensis Sawada, 1964, see: *Archaeoboreaphilus*.

nordenskioldi Mäklin, 1878, see: *Holoboreaphilus*.

pacci Zanetti, 1984a: 47 (*Boreaphilus*; Type locality: Sicilia: M. Soro, Monti Nebrodi, 1460 m).

— Zanetti, 1987: 440 (*Boreaphilus*; characters; Italy).

— Zerche, 1990: 199 (*Boreaphilus*; characters; Sicily).

— Sparacio, 1995: 144 (*Boreaphilus*; characters; notes; Sicily).

— Zanetti, 1995: 10 (*Boreaphilus*; Italy).

▲ **DISTRIBUTION:** Italy.

pyrenaicus Zerche, 1990: 207 (*Boreaphilus*; Type locality: Larrau Basses Pyrénées–Pyrénées-Atlantiques).

▲ **DISTRIBUTION:** France.

sahlbergi Poppius, 1904, see: *henningianus* C. Sahlberg, 1832.

schereri Zerche, 1990: 210 (*Boreaphilus*; Type locality: Sierra Nevada).

▲ **DISTRIBUTION:** Spain.

schawalleri Zerche, 1993: 345 (*Boreaphilus*; Type locality: USSR: Khabarovsk Province: Slavianka, 20 km N Troitskoye, Amur bank).

▲ **DISTRIBUTION:** Russia.

spectabilis Filatova, 1981, see: *henningianus* C. Sahlberg, 1832.

temporalis Zerche, 1990: 189 (*Boreaphilus*; Type locality: Japan: Mt. Yoshino, Kinki Distr.).

▲ **DISTRIBUTION:** Japan.

velox Heer, 1839: 188 (*Chevrieria*; Type locality: Genf).

- Fairmaire and Laboulbène, 1856: 631 (*Chevrieria*; characters; France).
- Kraatz, 1857: 43 (*Boreaphilus*; characters; Switzerland; France; Italy).
- Thomson, 1861: 183 (*Boreaphilus*; characters; Scandinavia).
- Fauvel, 1871a: 107 [= 1872: 81] (*Boreaphilus*; characters; France; Scandinavia; Switzerland; Italy; Spain).
- Fauvel, 1874: 322 [= 1874b: 28] (*Boreaphilus*; Corsica).
- Redtenbacher, 1874: 273 (*Boreaphilus*; characters).
- Fauvel, 1876a: 50 [= 1876: 236] (*Boreaphilus*; Algeria).
- Seidlitz, 1875: 243 (*Boreaphilus*; characters; Baltic region).
- Fauvel, 1878: 90 [= 1878a: 10] (*Boreaphilus*; Algeria).
- Mulsant and Rey, 1880: 403 (*Boreaphilus*; characters; France).
- Fauvel, 1886: 15 [= 1886a: 7] (*Boreaphilus*; Algeria).
- Ganglbauer, 1895: 700 (*Boreaphilus*; characters; north and middle Europe).
- Fauvel, 1897d: 274 (*Boreaphilus*; Algeria).
- Fauvel, 1902b: 55 (*Boreaphilus*; Algeria).
- Sainte-Claire Deville, 1906: 71 (*Boreaphilus*; Corsica).
- Sainte-Claire Deville, 1907: 53 (*Boreaphilus*; characters; France).
- Bernhauer and Schubert, 1910: 85 (*Boreaphilus*; catalog).
- J. Sahlberg, 1913: 58 (*Boreaphilus*; Syria).
- Portevin, 1929: 430 (*Boreaphilus*; characters; France).
- Scheerpeltz, 1933: 1072 (*Boreaphilus*; catalog).
- Horion, 1935: 167 (*Boreaphilus*; characters).
- Scheerpeltz, 1961d: 118 (*Boreaphilus*; Italy).
- Horion, 1963: 154 (*Boreaphilus*; Tunisia; Algeria; Lebanon; France; Spain; Corsica; Sardinia; Sicily; Italy; Croatia; Dalmatia; Greece; Bosnia Hercegovina; Yugoslavia; Albania; Macedonia; Switzerland; Austria; Germany).
- Lohse, 1964: 69 (*Boreaphilus*; characters; central Europe).
- Tóth, 1982: 108 (*Boreaphilus*; characters).
- Zanetti, 1984a: 50 (*Boreaphilus*; characters).
- Zanetti, 1987: 440 (*Boreaphilus*; characters; Italy).
- Lucht, 1987: 91 (*Boreaphilus*; checklist; Austria; Switzerland).
- Zerche, 1989: 129 (*Boreaphilus*; correction of distributional dates for central Europe).
- Zerche, 1990: 214 (*Boreaphilus*; characters; Portugal; Spain; France; Switzerland; Italy; Yugoslavia; Albania; Greece; Turkey; Cyprus; Lebanon; Israel; Tunisia; Algeria).
- Zerche, 1993: 353 (*Boreaphilus*; Greece; Italy; Switzerland).
- Sparacio, 1995: 144 (*Boreaphilus*; characters; notes; Sicily).
- Zanetti, 1995: 10 (*Boreaphilus*; Italy).
- Zanetti and Sabella, 1998: 34 (*Boreaphilus*; notes; Sicily).
- Assing and Wunderle, 2001: 36 (*Boreaphilus*; Cyprus).

▲ **DISTRIBUTION:** Europe, Algeria, Tunisia, Israel, Lebanon, Turkey.

angulatus Fairmaire and Laboulbène, 1856: 631 (*Chevrieria*; Type locality: Cauterets; Bretagne).

- Kraatz, 1857: 43 (*Boreaphilus*; characters).
- Thomson, 1861: 185 (*Eudectus*; synonym of *giraudi*).

- Fauvel, 1869: 493 (*Boreaphilus*; synonym of *velox*).
- Ganglbauer, 1895: 700 (*Boreaphilus*; synonym of *velox*).
- Bernhauer and Schubert, 1910: 85 (*Boreaphilus*; synonym of *velox*).
- Zerche, 1990: 214 (*Boreaphilus*; synonym of *velox*).

angustatus Jacquelin du Val, 1857: pl. 24, fig. 119 (*Boreaphilus*; [**Note:** Jacquelin du Val attributed this name to Fairmaire and Laboulbène but I do not find their use of the name. However *angulatus* is not listed in Jacquelin du Val's 1868: 79 catalog, so perhaps it was an error for *angustatus*]; Type locality: Not cited).

- Ganglbauer, 1895: 700 (*Boreaphilus*; synonym of *velox*).
- Bernhauer and Schubert, 1910: 85 (*Boreaphilus*; synonym of *velox*).

hummleri Bernhauer, 1935a: 40 (*Boreaphilus*; variety of *velox*; Type locality: Calabrien, Sta. Christina; [**Note:** See lectotype designation by Zerche, 1990]. Also cited from Mte. Pagano).

- Zanetti, 1987: 440 (synonym of *velox*).
- Zerche, 1990: 215 (*Boreaphilus*; lectotype designation: Calabria, Sta. Christina; synonym of *velox*).

longicornis Roubal, 1941: 10 (*Boreaphilus*; variety of *velox*; [**preoccupied**]; Type locality: Graecia: Taygetos; [**Note:** See lectotype designation by Zerche, 1990]).

- Zerche, 1990: 215 (*Boreaphilus*; lectotype designation; synonym of *velox*).

volans J. Sahlberg, 1911, see: *henningianus* C. Sahlberg, 1832.

wunderlei Zerche, 1993: 349 (*Boreaphilus*; Type locality: E. Oviedo, Puerto de la Cubilla, 1400 m).

▲ **DISTRIBUTION:** Spain.

zanettii Zerche, 1990: 190 (*Boreaphilus*; Type locality: Amur Region, Zeya State Res.).

▲ **DISTRIBUTION:** Russia.

Caloboreaphilus

[1 species; Palaearctic Region]

Caloboreaphilus Zerche, 1990: 166 (species included: *hammondi*). **TYPE SPECIES:** *Caloboreaphilus hammondi* Zerche, 1990, fixed by original designation and monotypy.

hammondi Zerche, 1990: 167 (*Caloboreaphilus*; Type locality: China: Shaanxi, ca. 20 m. S. Xian Cuihua Shan).

▲ **DISTRIBUTION:** China.

Gnathoryphium

[1 species; Nearctic Region]

Gnathoryphium Campbell, 1978a: 51 (species included: *mandibulare*). **TYPE SPECIES:** *Gnathoryphium mandibulare* Campbell, fixed by original designation.

- Zerche, 1990: 294, 298 (characters; character analysis; sistergroup relationships).
- Newton, Thayer, Ashe, and Chandler, 2000: 341 (1 Nearctic species; notes; characters in key).

mandibulare Campbell, 1978a: 52 (*Gnathoryphium*; Type locality: Washington: Mt. Baker, Austin Pass, 4500 ft.).

- Zerche, 1990: 294, 298 (*Gnathoryphium*).
- Zerche, 1993: 356 (*Gnathoryphium*; notes on origin).

▲ **DISTRIBUTION:** USA.

Hypsonothrus

[2 species; Palaearctic Region]

Hypsonothrus Ganglbauer, 1896: 177 (subgenus of *Niphetodes*; species included: *deubeli*).

TYPE SPECIES: *Niphetodes deubeli* Ganglbauer, fixed by monotypy.

- Bernhauer and Schubert, 1910: 85 (subgenus of *Niphetodes*).
- Blackwelder, 1952: 197 (type species: *deubeli*).

- Tikhomirova, 1973a: 142 (subgenus of *Niphetodes*; checklist of species of USSR).
- Zerche, 1990: 231 (characters; valid genus; key to species of Palaearctic region; phylogenetic relationships; distribution).
- Zerche, 1993: 355 (distribution).

besucheti Zerche, 1990: 233 (*Hypsonothrus*; Type locality: Maroc-Rif, Azib de Ketama, 1500 m).

▲ **DISTRIBUTION:** Morocco.

deubeli Ganglbauer, 1896: 177, 178 (*Niphetodes*; subgenus *Hypsonothrus*; Type locality: Rodnaer Gebirge, Gipfel des Kuhhorn; [**Note:** See lectotype designation by Zerche, 1990]. Also cited from Bucsecs im südöstlichsten Siebenbürgen).

- Bernhauer and Schubert, 1910: 85 (*Niphetodes*; catalog).
- Scheerpeltz, 1933: 1073 (*Niphetodes*; catalog).
- Walles, 1938: 67, 70 (*Niphetodes*; Poland [locality part of Ukraine]).
- Horion, 1963: 156 (*Niphetodes*; Romania; Slovakia).
- Tóth, 1982: 108 (*Niphetodes*; characters).
- Zerche, 1990: 235 (*Hypsonothrus*; lectotype designation: Rodnaer Gebirge, Gipfel des Kuhhorn; characters; USSR; Romania).

▲ **DISTRIBUTION:** Ukraine, Romania.

huppenthali Lokay, 1912: 137, 138 (*Niphetodes*; subgenus *Hypsonothrus*; variety of *deubeli*; Type locality: Ost-Karpaten: Czarnohora Gebiet; [**Note:** See lectotype designation by Zerche, 1990]).

- Scheerpeltz, 1933: 1073 (*Niphetodes*; synonym of *deubeli*).
- Tóth, 1982: 109 (*Niphetodes*; variety of *deubeli*; characters).
- Zerche, 1990: 235 (*Hypsonothrus*; lectotype designation: Czarnohora Cp. Or.; synonym of *deubeli*).

huppenthali Lokay, 1912, see: *deubeli* Ganglbauer, 1896.

Niphetodops

[2 species; Palaearctic Region]

Niphetodops Zerche, 1990: 225 (species included: *cyrneus*, *lecoqi*). **TYPE SPECIES:** *Niphetodes cyrneus* Orousset and Lecoq, fixed by original designation.

cyrneus Orousset and Lecoq, 1988: 387 (*Niphetodes*; Type locality: Corse: forêt domaniale de Lonca au nord-est de Porto, Corse du Sud, 900 m).

- Zerche, 1990: 226 (*Niphetodops*; characters; Corsica).

▲ **DISTRIBUTION:** Corsica.

lecoqi Zerche, 1990: 229 (*Niphetodops*; Type locality: Corse: Val d'Eze, 1600 m).

▲ **DISTRIBUTION:** Corsica.

Subtribe Coryphiina

Coryphiina Jakobson, 1908: 452 (genera included: *Eudectus*, *Coryphium*, *Coryphiodes*, *Boreaphilus*, *Niphetodes*). **TYPE GENUS:** *Coryphium* (see Newton and Thayer, 1992: 58).

- Zerche, 1990: 22, 26 (characters; cited as new subtribe).
- Newton and Thayer, 1992: 58 (subtribe of Coryphiini).
- Newton, Thayer, Ashe, and Chandler, 2000: 341 (characters; notes).

Altaioniphetodes

[1 species; Palaearctic Region]

Altaioniphetodes Zerche, 1993: 333 (species included: *ryvkini*). **TYPE SPECIES:** *Altaioniphetodes ryvkini* Zerche, by original designation and monotypy.

ryvkini Zerche, 1993: 334 (*Altaioniphetodes*; Type locality: Altai, chr. [Hütte] Korgon, verch. rutsch, [Oberlauf des Baches] Mochnatyj, prit. Kumira [Zufluss des Kumir], 1700 m).

▲ **DISTRIBUTION:** Altai region.

Coryphiocnemus

[1 species; Palaearctic Region]

Coryphiocnemus Zerche, 1990: 81 (species included: *venustus*). **TYPE SPECIES:** *Coryphium venustum* Filatova, fixed by original designation and monotypy.

— Ryabukhin, 1999: 32 (represented in northeastern Russia by unidentified specimen).

venustus Filatova, 1981a: 119 (*Coryphium*; Type locality: Primorskii Krai, Shkotovskii r-n, pos. Anisimovka).

— Filatova, 1982: 104 (*Coryphium*; English translation of Filatova, 1981a; Russia).

— Zerche, 1990: 82 (*Coryphiocnemus*; characters; Russia).

▲ **DISTRIBUTION:** Russia.

Coryphiodes

[9 species; Palaearctic Region]

Coryphiodes Bernhauer, 1898a: 531 (species included: *deubeli*). **TYPE SPECIES:** *Coryphiodes deubeli* Bernhauer, fixed by monotypy.

— Heyden, Reitter, and Weise, 1906: 137 (list of species of Europe and Caucasus).

— Bernhauer and Schubert, 1910: 84 (world catalog; 1 species).

— Petri, 1912: 56 (list of species of Siebenbürgen).

— Winkler, 1925: 337 (catalog for Palaearctic region).

— Blackwelder, 1952: 108 (type species: *deubeli*).

— Székessy, 1963: 24 (characters).

— Tikhomirova, 1973a: 141 (checklist of species of USSR).

— Tóth, 1982: 106 (characters; cited as *Coryphioides*; species of Hungary).

— Zerche, 1990: 66 (characters; key to species; phylogeny; distribution).

— Zerche, 1993: 328, 332 (modification of key; phylogeny).

— Kashcheev, 1999: 146 (cited as *Coryphyodes*; characters).

Polychelus Luze, 1904: 74 (species included: *aeneipennis*). **TYPE SPECIES:** *Polychelus aeneipennis* Luze, fixed by monotypy.

— Bernhauer, 1905b: 595 (synonym of *Coryphium*).

— Bernhauer and Schubert, 1910: 83 (synonym of *Coryphium*).

— Blackwelder, 1952: 317 (type species: *aeneipennis*).

— Campbell, 1978a: 26 (synonym of *Coryphium*).

— Watanabe, 1988: 46 (synonym of *Coryphium*).

— Watanabe, 1990: 355 (synonym of *Coryphium*).

— Zerche, 1990: 66 (synonym of *Coryphiodes*).

aeneipennis Luze, 1904: 75 (*Polychelus*; Type locality: Lac Kulikulan, Turkestan; [**Note:** See lectotype designation by Zerche, 1990]).

— Bernhauer and Schubert, 1910: 83 (*Coryphium*; catalog).

— Zerche, 1990: 76 (*Coryphiodes*; lectotype designation: Lac Kulikulan, Turkestan; characters; Uzbekistan).

▲ **DISTRIBUTION:** Uzbekistan.

anatolicus Fagel, 1971: 122 (*Coryphium*; Type locality: Anatolie occidentale: vilayet de Bursa, Uludagh, 2000–2200 m).

— Zerche, 1990: 72 (*Coryphiodes*; characters; Turkey).

▲ **DISTRIBUTION:** Turkey.

deubeli Bernhauer, 1898a: 532 (*Coryphiodes*; Type locality: Rodnaergebirge auf dem Gipfel des Koronjis).

— Bernhauer and Schubert, 1910: 84 (*Coryphiodes*; catalog).

— Scheerpeltz, 1966d: 311 (*Coryphiodes*; characters).

— Tóth, 1982: 107 (*Coryphiodes*; characters).

— Zerche, 1990: 69 (*Coryphiodes*; characters; Romania).

▲ **DISTRIBUTION:** Romania.

- franzi** Zerche, 1993: 329 (*Coryphiodes*; Type locality: Kashmir, Aru).
 — Coiffait, 1982: 43 (*Boreaphilus*; cited as *nepalicus*; [**Note:** Misidentified according to Zerche, 1993]; India).
 ▲ **DISTRIBUTION:** India.
- jelineki** Zerche, 1990: 74 (*Coryphiodes*; Type locality: N Iran: C Elburz Kuha - ye Tu-Chal, 3600–3900 m).
 ▲ **DISTRIBUTION:** Iran.
- kelleri** Scheerpeltz, 1966d: 307 (*Coryphiodes*; Type locality: Herzegovina: Bjelasnica).
 — Zerche, 1990: 71 (*Coryphiodes*; characters; Yugoslavia).
 ▲ **DISTRIBUTION:** Bosnia Hercegovina.
- oehlkei** Zerche, 1990: 78 (*Coryphiodes*; Type locality: Asia cent.: N Taschkent Gr.[osser] Tschimgan, 2800 m).
 ▲ **DISTRIBUTION:** Uzbekistan.
- schuelkei** Zerche, 1993: 330 (*Coryphiodes*; Type locality: USSR: Asia cent., Tadzhiestan, Pamir-Alai Hissar-Mts./Ansob-Pass, 3200–3600 m).
 ▲ **DISTRIBUTION:** Tajikistan.
- usbekistanensis** Zerche, 1990: 80 (*Coryphiodes*; Type locality: Kamaschi [Kamaschi]).
 ▲ **DISTRIBUTION:** Uzbekistan.

Coryphiomorphus

[2 species; Nearctic and Palaearctic Regions]

- Coryphiomorphus* Zerche, 1988d: 27 (species included: *dieckmanni*, *hyperboreus*). **TYPE SPECIES:** *Coryphiomorphus dieckmanni* Zerche, fixed by original designation.
 — Lohse and Lucht, 1989: 123 (characters).
 — Zerche, 1989: 128 (characters).
 — Zerche, 1990: 87 (characters; key to species of Palaearctic region).
 — Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
 — Newton, Thayer, Ashe, and Chandler, 2000: 341 (1 Nearctic species; notes; characters in key).
- dieckmanni** Zerche, 1988d: 30 (*Coryphiomorphus*; Type locality: Czechoslovakia Tatra ca. 4900 feet above Popper See. Also cited from Poland).
 — Zerche, 1989: 128 (*Coryphiomorphus*; characters; High Tatra).
 — Zerche, 1990: 92 (*Coryphiomorphus*; characters; Czechoslovakia).
 — Boháč, 1993: 42 (*coryphiomorphus*; Slovakia).
 — Burakowski, Mroczkowski, and Stefańska, 2000: 42 (*Coryphiomorphus*; catalog; Poland).
 ▲ **DISTRIBUTION:** Slovakia, Poland.
- hyperboreus** Mäklin, 1880: 84 (*Cylletron*; Type locality: Novaja Semlja vid södra stranden af Matotschkin).
 — Mäklin, 1881: 41 (*Cylletron*; [**Note:** Cited without earlier reference as though a new species]; characters; Novaja Semlja vid södra stranden af Matotschkinsundet).
 — Bernhauer and Schubert, 1910: 84 (*Coryphium*; catalog).
 — Munster, 1925: 5 (*Coryphium*; notes; Novaya Zemlya).
 — Scheerpeltz, 1933: 1072 (*Coryphium*; catalog).
 — Palm, 1948: 128 (*Coryphium*; characters; Sweden; Norway; Finland).
 — Steel, 1964a: 249 (*Coryphium*; Alaska).
 — Campbell, 1978a: 28 (*Coryphium*; characters; Yukon Territory; Alaska).
 — Andersen, 1982: 64 (*Coryphium*; natural history; Norway).
 — Zerche, 1988d: 27 (*Coryphiomorphus*).
 — Zerche, 1990: 89 (*Coryphiomorphus*; characters; Norway; Sweden; Finland; Russia).
 — Zerche, 1993: 353 (*Coryphiomorphus*; Norway; Russia; Canada).
 — Ryabukhin, 1999: 31 (*Coryphiomorphus*; catalog; habitat; distribution; northeastern Russia).
 ▲ **DISTRIBUTION:** Sweden, Norway, Finland, Russia, Canada, USA.

norvegicum Münster, 1911: 279 (*Coryphium*; Type locality: Fluss Jakobselv im nördlichen Norwegen, an der russischen Grenze in Südvaranger; [**Note:** See lectotype designation by Zerche, 1990]).

- Münster, 1925: 5 (*Coryphium*; synonym of *hyperboreum*).
- Scheerpeltz, 1933: 1072 (*Coryphium*; synonym of *hyperboreum*).
- Campbell, 1978a: 28 (*Coryphium*; synonym of *hyperboreum*).
- Zerche, 1990: 89 (*Coryphiomorphus*; lectotype designation: Jakobselv.; synonym of *hyperboreus*).

norvegicum Münster, 1911, see: *hyperboreum* Mäklin, 1880.

Coryphiopsis

[1 species; Palaearctic Region]

Coryphiopsis Zerche, 1990: 93 (species included: *indica*). **TYPE SPECIES:** *Coryphiopsis indica* Zerche, fixed by original designation and monotypy.

indica Zerche, 1990: 94 (*Coryphiopsis*; Type locality: India: Sikkim, Dzungri, 13,000 ft.).

▲ **DISTRIBUTION:** India.

Coryphium

[15 species (and 3 Nearctic species “incertae sedis”); Palaearctic Region]

Coryphium Stephens, 1834: 328, 344 (species included: *angusticolle*; [**Note:** See Commission Opinion 1597]). **TYPE SPECIES:** *Coryphium angusticolle* Stephens, fixed by monotypy.

- Curtis, 1829: 29 (nomen nudum; catalog; Britain).
- Stephens, 1829a: 25 (nomen nudum; catalog; Britain).
- Stephens, 1829: 296 (nomen nudum; catalog; Britain).
- Westwood, 1838a: 18 (characters; type species).
- Stephens, 1839: 422 (characters).
- Schaum, 1852: 31 (list of species; Europe).
- Jacquelin du Val, 1857: 68 (characters).
- Redtenbacher, 1857: 245 (characters).
- Kraatz, 1857d: 968 (characters).
- G. Waterhouse, 1858: 31 (catalog of British species).
- Thomson, 1859: 49 (characters; type species: *bifoveolatum*).
- Schaum, 1859: 32 (catalog; European species).
- LeConte, 1861a: 70 (characters).
- Thomson, 1861: 186 (characters).
- LeConte, 1863: 26 (list of North American species).
- Gemminger and Harold, 1868: 664 (catalog).
- Jacquelin du Val, 1868: 79 (catalog; European species).
- Fauvel, 1871a: 104 [= 1872: 78] (characters).
- Sharp, 1871d: 14 (list of British species).
- Redtenbacher, 1874: 272 (characters).
- Fauvel, 1875a:V [= 1875b: 207] (catalog).
- Mulsant and Rey, 1880: 392 (characters).
- Duvivier, 1883: 197 (catalog).
- Fowler, 1888: 409 (notes).
- Seidlitz, 1891: 349 (key to some European species).
- Seidlitz, 1891a: 372 (key to some European species).
- Heyden, Reitter, and Weise, 1891: 118 (list of species of Europe and Caucasus).
- Ganglbauer, 1895: 701 (characters).
- Heyden, Reitter, and Weise, 1906: 137 (list of species of Europe and Caucasus).
- Reitter, 1909: 182 (characters; key to German species).
- Bernhauer and Schubert, 1910: 83 (world catalog; 5 species).
- Johansen, 1914: 584 (characters).
- Winkler, 1925: 337 (catalog for Palaearctic region).

- Porta, 1926: 33 (characters; species of Italy).
- Roubal, 1930: 319 (catalog; Slovakia).
- Joy, 1932: 97 (key to British species).
- Scheerpeltz, 1933: 1071 (world catalog supplement).
- Kloet and Hincks, 1945: 162 (list of British species).
- Palm, 1948: 127 (characters; species of Sweden).
- Tottenham, 1949: 359, 408 (type species: *angusticolle* Stephens; list of British species).
- Blackwelder, 1952: 109 (type species: *angusticolle*).
- Tottenham, 1954: 36 (characters; British species).
- Horion, 1963: 151 (list of central European species).
- Székessy, 1963: 23 (characters).
- Lohse, 1964: 68 (characters; key to central European species).
- Scheerpeltz, 1968a: 19 (catalog of Austrian species).
- Tikhomirova, 1973a: 141 (checklist of species of USSR).
- Shibata, 1976: 124 (checklist of species of Japan).
- Pope, 1977: 24 (list of British species).
- Campbell, 1978a: 24, 26 (key to species; characters; notes).
- Burakowski, Mroczkowski, and Stefańska, 1979: 78 (catalog; Poland).
- Muona, 1979: 18 (list of Scandinavian species).
- Uhlig, Vogel, and Sieber, 1980: 241 (some species collected in Germany).
- Tóth, 1982: 105 (characters; habitus; species of Hungary).
- Muona and Viramo, 1986: 16 (list of species of northeastern Finland).
- Zanetti, 1987: 427 (characters; habitus; key to species of Italy).
- Zerche, 1988b: 198 (requests conservation of name).
- Watanabe, 1988: 46 (characters; key to species of Japan).
- Thayer, 1989: 44 (supports Zerche's proposal to conserve name and type species).
- Lohse and Lucht, 1989: 123 (characters).
- Zerche, 1989: 127 (key to species to replace that of Lohse, 1964).
- ICZN, 1990: 156 (Opinion 1597, name placed on Official List of Generic Names in Zoology).
- Watanabe, 1990: 355 (characters; key to species of Japan).
- Zerche, 1990: 29, 31 (characters; key to species; only in Palearctic region; Nearctic species excluded; bionomics; phylogeny; distribution).
- M. Hansen, Kristensen, Mahler, Pedersen, 1991: 106 (list of Danish species).
- Campbell and Davies, 1991: 89 (checklist of species; Alaska and Canada).
- Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
- Zerche, 1993: 320, 326 (modification of key to species; phylogeny).
- Siitonen, 1993: 230 (list of Finnish species).
- Welch, 1993 (ovariole structure and development).
- Boháč, 1993: 42 (in list of species of Czech Republic and Slovakia).
- Zanetti, 1995: 10 (list of species of Italy).
- M. Hansen, 1996: 95 (list of Danish species).
- M. Hansen, Mahler, Palm, and Pedersen, 1996: 241 (additions to list of Danish species).
- M. Hansen, Palm, Pedersen, and Runge, 1998: 70 (list of species collected in 1997; Denmark).
- Kashcheev, 1999: 146 (characters).
- Ryabukhin, 1999: 31 (represented in northeastern Russia by single unidentified specimen).
- Newton, Thayer, Ashe, and Chandler, 2000: 341 (3 Nearctic species; notes; characters in key).
- Harpognatus* Wesmael, 1833: 120 (species included: *robynsii*; [**Note:** By action of the Commission on Zoological Nomenclature, in 1990 Opinion 1597, this name is suppressed for purposes of priority but not homonymy]). **TYPE SPECIES:** *Harpognatus robynii* Wesmael, fixed by monotypy.
- Wesmael, 1834: 76 (cited as *Harpognathus* and, by action of ICZN, 1990: 156, in Opinion 1597, it is an incorrect spelling of *Harpognatus*).
- Jacquelin du Val, 1857: 68 (cited as *Harpognathus*; synonym of *Coryphium*).
- Kraatz, 1857d: 968 (cited as *Harpognathus*; synonym of *Coryphium*).
- G. Waterhouse, 1858: 31 (cited as *Harpognathus*; synonym of *Coryphium*).
- Schaum, 1859: 32 (cited as *Harpognathus*; synonym of *Coryphium*).

- Gemminger and Harold, 1868: 664 (cited as *Harpognathus*; synonym of *Coryphium*).
- Ganglbauer, 1895: 701 (cited as *Harpognathus*; synonym of *Coryphium*).
- Bernhauer and Schubert, 1910: 83 (cited as *Harpognathus*; synonym of *Coryphium*).
- Blackwelder, 1952: 181 (cited as *Harpognathus*; type species: *robysnii*).
- Campbell, 1978a: 26 (cited as *Harpognathus*; synonym of *Coryphium*).
- Watanabe, 1988: 46 (cited as *Harpognathus*; synonym of *Coryphium*).
- Zerche, 1988b: 197 (requests suppression for purposes of priority but not homonymy).
- Thayer, 1989: 44 (supports Zerche's proposal to suppress name).
- ICZN, 1990: 156 (Opinion 1597, name is suppressed for purposes of priority but not homonymy).
- Watanabe, 1990: 355 (synonym of *Coryphium*).
- Zerche, 1990: 29 (synonym of *Coryphium*).
- Zerche, 1990: 29 (cited as *Harpognathus*; synonym of *Coryphium*).

Macropalpus Cussac, 1852: 613 (species included: *pallipes*; **preoccupied** by Ratzeburg, 1844). **TYPE SPECIES:** *Macropalpus pallipes* Cussac, fixed by monotypy.

- Jacquelin du Val, 1857: 68 (synonym of *Coryphium*).
- Kraatz, 1857d: 968 (synonym of *Coryphium*).
- G. Waterhouse, 1858: 31 (synonym of *Coryphium*).
- Schaum, 1859: 32 (synonym of *Coryphium*).
- Gemminger and Harold, 1868: 664 (synonym of *Coryphium*).
- Ganglbauer, 1895: 701 (synonym of *Coryphium*).
- Bernhauer and Schubert, 1910: 83 (synonym of *Coryphium*).
- Blackwelder, 1952: 229 (type species: *pallipes*).
- Campbell, 1978a: 26 (synonym of *Coryphium*).
- Watanabe, 1988: 46 (synonym of *Coryphium*).
- Watanabe, 1990: 355 (synonym of *Coryphium*).
- Zerche, 1990: 29 (synonym of *Coryphium*).

anatolicum Fagel, 1972, see: *Coryphoides*.

angusticolle Stephens, 1834: 344 (*Coryphium*; [**Note:** Conserved and placed on Official List by Commission according to ICZN, 1990: 156]; Type locality: London; [**Note:** See lectotype designation by Zerche, 1988b]). Also cited from Suffolk; Ipswich; near Levington).

- Curtis, 1829: 29 (*Coryphium*; nomen nudum; catalog; Britain).
- Westwood, 1838a: 18 (*Coryphium*; type species).
- Stephens, 1839: 427 (*Coryphium*; characters; England).
- Fairmaire and Laboulbène, 1856: 632 (*Boreaphilus*; characters; France).
- Redtenbacher, 1857: 245, 992 (*Coryphium*; characters; France; England).
- Kraatz, 1857d: 971 (*Coryphium*; characters; Germany).
- Fauvel, 1871a: 106 [= 1872: 80] (*Coryphium*; characters; France; Scandinavia; Russia; Britain; Germany; Switzerland).
- Fauvel, 1873b: 117 [= 1873c: 10] (*Coryphium*; Austria).
- Schwarz, 1873: 185 (*Coryphium*; characters).
- Redtenbacher, 1874: 272 (*Coryphium*; characters; Germany).
- Seidlitz, 1875: 242 (*Coryphium*; characters; Baltic region).
- J. Sahlberg, 1876: 210 (*Coryphium*; Finland).
- Mulsant and Rey, 1880: 395 (*Coryphium*; characters; France).
- Fowler, 1888: 409 (*Coryphium*; characters; Britain).
- Ganglbauer, 1895: 702 (*Coryphium*; characters; north and middle Europe).
- Sainte-Claire Deville, 1907: 52 (*Coryphium*; characters; France).
- Reitter, 1909: 182 (*Coryphium*; characters; Germany).
- Bernhauer and Schubert, 1910: 83 (*Coryphium*; catalog).
- Johansen, 1914: 584 (*Coryphium*; characters; Denmark).
- Gridelli, 1924b: 131 (*Coryphium*; characters; Italy).
- Portevin, 1929: 431 (*Coryphium*; characters; France).
- Scheerpeltz, 1933: 1071 (*Coryphium*; catalog).

- Jarrige, 1947: 46, 71 (*Coryphium*; characters).
 - Palm, 1948: 128 (*Coryphium*; characters; Sweden; Denmark; Norway; Finland).
 - Horion, 1963: 151 (*Coryphium*; Italy; Russia; Finland; Sweden; Denmark; Britain; Holland; Belgium; France; Switzerland; Hungary; Czechoslovakia; Poland; Germany; Austria).
 - Lohse, 1964: 69 (*Coryphium*; characters; central Europe).
 - Smetana, 1964d: 55 (*Coryphium*; Czechoslovakia).
 - Szujewski, 1969a: 248 (*Coryphium*; notes; Poland).
 - Legner and Moore, 1977: 175 (*Coryphium*; found under bark).
 - Pope, 1977: 24 (*Coryphium*; Britain).
 - Hammond, 1980: 139 (*Coryphium*; Ireland).
 - Tóth, 1982: 106 (*Eudectus*; characters).
 - Segers, 1986: 23 (*Coryphium*; checklist of species; Belgium).
 - Zanetti, 1987: 432 (*Coryphium*; characters; Italy).
 - Lucht, 1987: 91 (*Coryphium*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux; Denmark; Sweden).
 - Zerche, 1988b: 198 (*Coryphium*; lectotype designation [**Note:** Locality not cited but see Zerche, 1990]; requests conservation of name).
 - Schülke and Uhlig, 1988: 3 (*Coryphium*; Germany).
 - Thayer, 1989: 44 (*Coryphium*; supports Zerche's proposal to conserve name).
 - Zerche, 1989: 127 (*Coryphium*; characters).
 - ICZN, 1990: 156 (Opinion 1597, name placed on Official List of Specific Names in Zoology).
 - Zerche, 1990: 34 (*Coryphium*; type locality: London; characters; bionomic notes; Norway; Sweden; Denmark; Great Britain; France; Spain; Portugal; Belgium; Luxembourg; Switzerland; Germany; Poland; Czechoslovakia; Austria; Italy; Yugoslavia; Romania; Russia).
 - Zerche, 1993: 352 (*Coryphium*; Germany; Czech Republic).
 - Welch, 1993: 227 (*Coryphium*; cited as *arigusticolle*; ovariole number and ovary structure).
 - Boháč, 1993: 42 (*Coryphium*; Slovakia; Czech Republic).
 - Muona and Viramo, 1995: 9 (*Coryphium*; collected from dung of *Ursus arctos*; Finland).
 - Sparacio, 1995: 143 (*Coryphium*; characters; notes; Sicily).
 - Zanetti, 1995: 10 (*Coryphium*; Italy).
 - Fowles, Alexander, and Key, 1999: 129 (*Coryphium*; saproxylic species; status as endangered or threatened species; Britain).
 - Lott, 1999: 72 (*Coryphium*; saproxylic species; habitat; endangered status; Britain).
 - ▲ **DISTRIBUTION:** Europe, Russia.
- robysii* Wesmael, 1833: 121 (*Harpognatus*; [**Note:** This name was suppressed for purposes of priority but not homonymy by the ICZN, 1990, in Opinion 1597]; Type locality: Bruxelles; [**Note:** See lectotype designation by Zerche, 1988b]).
- Wesmael, 1834: 119 (*Harpognatus*, cited as *Harpognathus*; Belgium).
 - G. Waterhouse, 1858: 31 (*Coryphium*; synonym of *angusticolle*).
 - Kraatz, 1857d: 971 (*Coryphium*; synonym of *angusticolle*).
 - Mulsant and Rey, 1880: 395 (*Coryphium*; synonym of *angusticolle*).
 - Ganglbauer, 1895: 702 (*Coryphium*; synonym of *angusticolle*).
 - Bernhauer and Schubert, 1910: 84 (*Coryphium*; synonym of *angusticolle*).
 - Zerche, 1988b: 197 (*Coryphium*; lectotype designation; requests suppression for purposes of priority but not homonymy).
 - ICZN, 1990: 156 (Opinion 1597, name is suppressed for purposes of priority but not homonymy).
 - Zerche, 1990: 34 (*Coryphium*; synonym of *angusticolle*).
- brevicolle* Haliday, 1841: 187 (*Boreaphilus*; Type locality: Ireland: Holywood).
- G. Waterhouse, 1858: 31 (*Coryphium*; synonym of *angusticolle*).
 - Kraatz, 1857d: 971 (*Coryphium*; synonym of *angusticolle*).
 - Mulsant and Rey, 1880: 395 (*Coryphium*; synonym of *angusticolle*).
 - Ganglbauer, 1895: 702 (*Coryphium*; synonym of *angusticolle*).
 - Bernhauer and Schubert, 1910: 84 (*Coryphium*; synonym of *angusticolle*).
 - Zerche, 1990: 35 (*Coryphium*; synonym of *angusticolle*).

- pallipes* Cussac, 1852: 613 (*Macropalpus*; Type locality: environs de Lille).
 — G. Waterhouse, 1858: 31 (*Coryphium*; synonym of *angusticolle*).
 — Kraatz, 1857d: 971 (*Coryphium*; synonym of *angusticolle*).
 — Mulsant and Rey, 1880: 395 (*Coryphium*; synonym of *angusticolle*).
 — Ganglbauer, 1895: 702 (*Coryphium*; synonym of *angusticolle*).
 — Bernhauer and Schubert, 1910: 84 (*Coryphium*; synonym of *angusticolle*).
 — Scheerpeltz, 1933: 1071 (*Coryphium*; synonym of *angusticolle*).
 — Zerche, 1990: 35 (*Coryphium*; synonym of *angusticolle*).
- melanocephalum* Motschulsky, 1860: 542 (*Coryphium*; Type locality: environs de St. Petersburg; [**Note:** See lectotype designation by Zerche, 1990]).
 — Fauvel, 1869: 493 (*Coryphium*; synonym of *angusticolle*).
 — Fauvel, 1871a: 106 [= 1872: 80] (*Omalium*, cited as *Homalium*; synonym of *angusticolle*).
 — Bernhauer and Schubert, 1910: 84 (*Coryphium*; synonym of *angusticolle*).
 — Zerche, 1990: 35 (*Coryphium*; lectotype designation; synonym of *angusticolle*).
- bifoveolatum* Thomson, 1861: 186 (*Coryphium*; Type locality: Småland).
 — Thomson, 1859: 49 (type species of *Coryphium*).
 — Gemminger and Harold, 1868: 664 (*Coryphium*; synonym of *angusticolle*).
 — Fauvel, 1869: 493 (*Coryphium*; synonym of *angusticolle*).
 — Fauvel, 1871a: 106 [= 1872: 80] (*Omalium*, cited as *Homalium*; synonym of *angusticolle*).
 — Schwarz, 1873: 185 (*Coryphium*; characters).
 — J. Sahlberg, 1876: 210 (*Coryphium*; synonym of *angusticolle*).
 — Mulsant and Rey, 1880: 395 (*Coryphium*; synonym of *angusticolle*).
 — Ganglbauer, 1895: 702 (*Coryphium*; synonym of *angusticolle*).
 — Bernhauer and Schubert, 1910: 83 (*Coryphium*; synonym of *angusticolle*).
 — Scheerpeltz, 1933: 1071 (*Coryphium*; synonym of *angusticolle*).
 — Zerche, 1990: 35 (*Coryphium*; synonym of *angusticolle*).
- letzneri* Schwarz, 1873: 183 (*Coryphium*; Type locality: Silesia, in monte Altvater).
 — Ganglbauer, 1895: 702 (*Coryphium*; characters).
 — Reitter, 1909: 182 (*Coryphium*; characters; Germany).
 — Bernhauer and Schubert, 1910: 84 (*Coryphium*; synonym of *angusticolle*).
 — Gridelli, 1924b: 131 (*Coryphium*; synonym of *angusticolle*).
 — Scheerpeltz, 1933: 1072 (*Coryphium*; catalog).
 — Horion, 1935: 168 (*Coryphium*; doubtful species).
 — Lohse, 1964: 69 (*Coryphium*; characters; central Europe).
 — Zanetti, 1987: 432 (*Coryphium*; synonym of *angusticolle*).
 — Lucht, 1987: 91 (*Coryphium*; checklist; Germany; Poland; Czechoslovakia; Austria).
 — Zerche, 1989: 127 (*Coryphium*; synonym of *angusticolle*).
 — Zerche, 1990: 35 (*Coryphium*; synonym of *angusticolle*).
 — Boháč, 1993: 42 (*Coryphium*; synonym of *angusticolle*).
- italicum* Gridelli, 1924b: 132 (*Coryphium*; subspecies of *angusticolle*; Type locality: Mte. Sacro, Vallo Lucano; [**Note:** See lectotype designation by Zerche, 1990]. Also cited from Mte. Antola, Apennino Ligure; Mte. Marsicano, Abruzzo; Mte. Scuro, Vallo Lucano, Campania).
 — Scheerpeltz, 1933: 1072 (*Coryphium*; subspecies of *letzneri*).
 — Jarrige, 1947: 46, 71 (*Coryphium*; subspecies of *angusticolle*; characters in key).
 — Zanetti, 1986: 95 (*Coryphium*; synonym of *angusticolle*).
 — Zanetti, 1987: 432 (*Coryphium*; synonym of *angusticolle*).
 — Zerche, 1990: 35 (*Coryphium*; lectotype designation: Mte. Sacro, Vallo Lucano; synonym of *angusticolle*).
- levasseuri* Jarrige, 1947: 45, 70 (*Coryphium*; Type locality: Massif du Cantal, pentes nord des Fonts d'Alagnon, au pied du Bec de l'Aigle, alt. 1200 m).
 — Zerche, 1990: 35 (*Coryphium*; synonym of *angusticolle*).
- arizonense** Bernhauer, 1912i: 680 (*Ephelinus*; Type locality: Arizona: Flagstaff; [**Note:** See lectotype designation by Campbell, 1978a]).

- Scheerpeltz, 1933: 1071 (*Ephelinus*; catalog).
- Hatch, 1957: 75 (*Ephelinus*; characters; British Columbia).
- Campbell, 1978a: 34 (*Coryphium*; lectotype designation; characters; British Columbia; Arizona; Oregon; and doubtfully California).
- Zerche, 1990: 31 (Nearctic species not in *Coryphium*; placement uncertain).

▲ **DISTRIBUTION:** Canada, USA.

atratum Breit, 1911: 171 (*Coryphium*; Type locality: Mte. Maggiore bei Abazzia; [**Note:** See lectotype designation by Zerche, 1990]).

- Gridelli, 1924b: 133 (*Coryphium*; characters; Italy).
- Scheerpeltz, 1933: 1071 (*Coryphium*; catalog).
- Zerche, 1990: 45 (*Coryphium*; lectotype designation; characters; bionomic notes; Croatia; Bosnia Hercegovina).
- Zanetti, 1995: 10 (*Coryphium*; Italy).

▲ **DISTRIBUTION:** Italy, Croatia, Bosnia Hercegovina.

balcanicum Zerche, 1990: 48 (*Coryphium*; Type locality: Bulgarien: Stara Planina, Botev-Südhang, 2000 m).

- Zanetti, 1984: 79 (*Coryphium*; cited as *atratum* [**Note:** Misidentification of *balcanicum* according to Zerche, 1990]; Bulgaria).
- Zanetti, 1987: 434 (*Coryphium*; cited as *atratum* [**Note:** Misidentification of *balcanicum* according to Zerche, 1990; Zerche did not comment on the Italian record nor does he report the species from Italy]; characters; Italy; Bulgaria; Croatia).

▲ **DISTRIBUTION:** Bulgaria, Croatia.

bifoveolatum Thomson, 1861, see: *angusticolle* Stephens, 1834.

birostratum Handschin, 1920, see: *gredleri* Kraatz, 1870.

brachypterum Zerche, 1990: 60 (*Coryphium*; Type locality: Lac Vens Alpes-Maritimes).

▲ **DISTRIBUTION:** France.

brevicolle Haliday, 1841, see: *angusticolle* Stephens, 1834.

brunneum Hatch, 1957: 75 (*Ephelinus*; Type locality: Ida.: Bonner Co.: Sagle. Also cited from Canada).

- Campbell, 1978a: 37 (*Coryphium*; characters; British Columbia; Idaho).
- Zerche, 1990: 31 (Nearctic species not in *Coryphium*; placement uncertain).

▲ **DISTRIBUTION:** Canada, USA.

chobauti Sainte-Claire Deville, 1909: 347 (*Coryphium*; Type locality: versant Nord du mont Ventoux, Vaucluse, 1500 m; [**Note:** See lectotype designation by Zerche, 1990]).

- Scheerpeltz, 1933: 1072 (*Coryphium*; subspecies of *letzneri*).
- Jarrige, 1947: 45, 70 (*Coryphium*; characters in key).
- Zerche, 1990: 59 (*Coryphium*; lectotype designation; characters; bionomic notes; France).

▲ **DISTRIBUTION:** France.

dilutipes Ganglbauer, 1904a: 197 (*Coryphium*; variety of *gredleri*; Type locality: Gipfel des Monte Pari; [**Note:** See lectotype designation by Zerche, 1990]).

- Gridelli, 1924b: 130 (*Coryphium*; cited as valid species; characters; Italy).
- Scheerpeltz, 1933: 1071 (*Coryphium*; catalog).
- Horion, 1963: 154 (*Coryphium*; Italy; Austria).
- Lohse, 1964: 68 (*Coryphium*; characters; central Europe).
- Zanetti, 1987: 431 (*Coryphium*; characters; Italy).
- Lucht, 1987: 91 (*Coryphium*; checklist; Austria).
- Zerche, 1989: 128 (*Coryphium*; characters).
- Zerche, 1990: 56 (*Coryphium*; lectotype designation; characters; bionomic notes; France; Switzerland; Italy; Austria).
- Zerche, 1993: 353 (*Coryphium*; Switzerland).
- Zanetti, 1995: 10 (*Coryphium*; Italy).

▲ **DISTRIBUTION:** France, Switzerland, Austria, Italy.

fuscum Watanabe, 1988, see: *Archaeoboreaphilus*.

gredleri Kraatz, 1870: 416 (*Coryphium*; Type locality: Kreuzjoch; [**Note:** See lectotype designation by Zerche, 1990]).

- Schwarz, 1873: 185 (*Coryphium*; characters).
- Redtenbacher, 1874: 272 (*Coryphium*; characters; Tirol).
- Ganglbauer, 1895: 702 (*Coryphium*; characters; Tyrol).
- Reitter, 1909: 182 (*Coryphium*; characters; Germany).
- Bernhauer and Schubert, 1910: 84 (*Coryphium*; catalog).
- Gridelli, 1924b: 129 (*Coryphium*; characters; Italy).
- Scheerpeltz, 1933: 1071 (*Coryphium*; catalog).
- Jarrige, 1947: 45, 70 (*Coryphium*; characters in key).
- Horion, 1963: 153 (*Coryphium*; Austria; Italy; Switzerland; Germany ?).
- Lohse, 1964: 68 (*Coryphium*; characters; central Europe).
- Zanetti, 1987: 431 (*Coryphium*; characters; Italy).
- Lucht, 1987: 91 (*Coryphium*; checklist; Austria).
- Zerche, 1989: 128 (*Coryphium*; characters).
- Zerche, 1990: 52 (*Coryphium*; lectotype designation; characters; bionomic notes; France; Switzerland; Italy; Austria).
- Zerche, 1993: 352 (*Coryphium*; Switzerland; Austria).
- Zanetti, 1995: 10 (*Coryphium*; Italy).

▲ **DISTRIBUTION:** France, Switzerland, Austria, Italy.

birostratum Handschin, 1920: 5 (*Boreaphilus*; Type locality: Trübtensee, 2500 m).

- Scheerpeltz, 1933: 1072 (*Coryphium*; synonym of *gredleri*).
- Zerche, 1990: 52 (*Coryphium*; synonym of *gredleri*).

guttatum LeConte, 1863, see: *Ephelinus*.

italicum Gridelli, 1924, see: *angusticolle* Stephens, 1834.

iwakisanense Watanabe, 1988, see: *Archaeoboreaphilus*.

japonicum Yoshida and Nomura, 1952, see: *Philydrodes*.

letzneri Schwarz, 1873, see: *angusticolle* Stephens, 1834.

lavesseuri Jarrige, 1947, see: *angusticolle* Stephens, 1834.

loebli Zerche, 1993: 323 (*Coryphium*; Type locality: Gorkha Dist., Chuling Khola, Djongshi Kharka, 3050–3400 m).

▲ **DISTRIBUTION:** Nepal.

melanocephalum Motschulsky, 1860, see: *angusticolle* Stephens, 1834.

miyamorii Watanabe, 1988, see: *Archaeoboreaphilus*.

nepalicum Coiffait, 1977: 261 (*Boreaphilus*; Type locality: Environs de Alm Darghari, près Maharigaon, 4000 m région de Jumla, Népal occidental).

- Zerche, 1990: 64 (*Coryphium*; characters; Nepal).

▲ **DISTRIBUTION:** Nepal.

nigrum Campbell, 1978a: 30 (*Coryphium*; Type locality: New Hampshire: Mt. Washington. Also cited from Massachusetts and New York).

- Zerche, 1990: 31, 299 (Nearctic species not in *Coryphium*; placement uncertain; may be related to clade with *Coryphiocnemus*, *Planeboreaphilus*, and *Coryphiomorphus*).

▲ **DISTRIBUTION:** USA.

norvegicum Münster, 1911, see: *Coryphiomorphus*.

notatum LeConte, 1863, see: *Ephelinus*.

outereloi Zerche, 1990: 43 (*Coryphium*; Type locality: Mte. los Reales, Malaga).

▲ **DISTRIBUTION:** Spain.

pallidum LeConte, 1863, see: *Ephelinus*.

pallipes Cussac, 1852, see: *angusticolle* Stephens, 1834.

parvulum Poppius, 1904, see: *Platyphium*.

robynsii Wesmael, 1834, see: *angusticolle* Stephens, 1834.

sikkimense Zerche, 1990: 62 (*Coryphium*; Type locality: India: Sikkim, Lachen, 8950 ft.).

▲ **DISTRIBUTION:** India.

smetanaorum Zerche, 1993: 325 (*Coryphium*; Type locality: Nepal: Bhakta B./Syabnu, 2200–3350 m).

▲ **DISTRIBUTION:** Nepal.

tateoi Watanabe, 1988, see: *Archaeoboreaphilus*.

tchyldebayevi Kashcheev, 1999: 143 (*Coryphium*; Type locality: Zailiiskii Alatau, pereval Kysylauc).

▲ **DISTRIBUTION:** Kazakhstan.

turcicum Zerche, 1993: 322 (*Coryphium*; Type locality: Turquie: Artvin).

▲ **DISTRIBUTION:** Turkey.

uludaghense Fagel, 1971: 121 (*Coryphium*; Type locality: Anatolie occidentale: vilayet de Bursa, Uludagh, 1800–1900 m).

— Zerche, 1990: 50 (*Coryphium*; characters; Turkey).

▲ **DISTRIBUTION:** Turkey.

venustus Filatova, 1981, see: *Coryphiocnemus*.

yasutoshii Watanabe, 1988, see: *Archaeoboreaphilus*.

Ephelinus

[3 species; Nearctic Region]

Ephelinus Cockerell, 1906: 241 (replacement name for *Ephelis* Fauvel). **TYPE SPECIES:** *Coryphium pallidum* LeConte, by subsequent designation by R. Lucas, 1920: 267.

— Bernhauer and Schubert, 1910: 83 (world catalog; 3 species).

— Leng, 1920: 95 (catalog of North American species).

— Scheerpeltz, 1933: 1070 (world catalog supplement).

— Blackwelder, 1952: 149 (type species).

— Hatch, 1957: 52, 75 (characters; key to species of Pacific Northwest).

— Moore and Legner, 1975: 188 (catalog; North America north of Mexico).

— Campbell, 1978a: 24, 64 (key to species; characters; notes).

— Moore and Legner, 1979: 163 (characters; notes).

— Frank, 1986a: 365 (checklist of species of Florida).

— Zerche, 1990: 261 (characters discussed; Coryphiini).

— Downie and Arnett, 1996: 435 (characters; key to species of Northeastern North America).

— Lundgren, 1998: 38 (list of species from Florida; records for other States listed for each species).

— Newton, Thayer, Ashe, and Chandler, 2000: 342 (Nearctic species; notes; characters in key).

Ephelis Fauvel, 1878d: 219 [= 1878e: 55] (**preoccupied** by Lederer, 1863; species included: *pallida*, *guttata*, *notata*). **TYPE SPECIES:** *Coryphium pallidum* LeConte, fixed by objective synonymy with *Ephelinus* for which R. Lucas fixed the type species.

— Duvivier, 1883: 197 (catalog).

— Bernhauer and Schubert, 1910: 83 (synonym of *Ephelinus*).

— Blatchley, 1910: 481 (characters).

— Scheerpeltz, 1933: 1070 (synonym of *Ephelinus*).

— Blackwelder, 1952: 149 (type species).

— Campbell, 1978a: 64 (synonym of *Ephelinus*).

arizonensis Bernhauer, 1912, see: *Coryphium*.

brunneum Hatch, 1957, see: *Coryphium*.

guttatus LeConte, 1863a: 58 (*Coryphium*; Type locality: Southern States).

— Fauvel, 1878d: 220 [= 1878e: 56] (*Ephelis*; characters; Texas).

— Bernhauer and Schubert, 1910: 83 (*Ephelinus*; catalog).

— Campbell, 1978a: 66 (*Ephelinus*; characters; District of Columbia; North Carolina; South Carolina; Tennessee; Texas; Virginia).

— Downie and Arnett, 1996: 435 (*Ephelinus*; characters; USA).

▲ **DISTRIBUTION:** USA.

notatus LeConte, 1863a: 58 (*Coryphium*; Type locality: Pennsylvania).

— Fauvel, 1878d: 221 [= 1878e: 57] (*Ephelis*; characters; Michigan; Pennsylvania; Illinois; South Carolina).

— Bernhauer and Schubert, 1910: 83 (*Ephelinus*; catalog).

— Blatchley, 1910: 482 (*Ephelis*; characters; Indiana).

— Campbell, 1978a: 68 (*Ephelinus*; characters; Alabama; District of Columbia; Florida; Illinois; Maryland; Massachusetts; Michigan; Mississippi; Missouri; Ohio; Pennsylvania; Texas; Virginia).

— Downie and Arnett, 1996: 435 (*Ephelinus*; characters; USA).

▲ **DISTRIBUTION:** USA.

pallidus LeConte, 1863a: 57 (*Coryphium*; Type locality: Kansas).

— Fauvel, 1878d: 220 [= 1878e: 56] (*Ephelis*; characters; Kansas).

— Bernhauer and Schubert, 1910: 83 (*Ephelinus*; catalog).

— Campbell, 1978a: 71 (*Ephelinus*; characters; Illinois; Kansas).

— Downie and Arnett, 1996: 435 (*Ephelinus*; characters; USA).

▲ **DISTRIBUTION:** USA.

Eudectus

[7 species; Palearctic and Nearctic Regions]

Eudectus Redtenbacher, 1857: 245 (species included: *giraudi*). **TYPE SPECIES:** *Eudectus giraudi* Redtenbacher, fixed by monotypy.

— Kraatz, 1857: 40 (near *Boreaphilus*).

— Kraatz, 1857d: 972 (*Eudectus*; characters; Germany).

— Schaum, 1859: 32 (catalog; European species).

— Thomson, 1861: 184 (characters).

— Gemminger and Harold, 1868: 664 (catalog).

— Jacquelin du Val, 1868: 79 (catalog; European species).

— Fauvel, 1871a: 104 [= 1872: 78] (characters).

— Redtenbacher, 1874: 272 (characters).

— Fauvel, 1875a:V [= 1875b: 207] (catalog).

— Mulsant and Rey, 1880: 398 (characters).

— Duvivier, 1883: 198 (catalog).

— Leconte, 1884: 4 (characters).

— Fowler, 1888: 408 (notes).

— Heyden, Reitter, and Weise, 1891: 118 (list of species of Europe and Caucasus).

— Ganglbauer, 1895: 703 (characters).

— Heyden, Reitter, and Weise, 1906: 137 (list of species of Europe and Caucasus).

— Reitter, 1909: 181 (characters; key to German species).

— Bernhauer and Schubert, 1910: 82 (world catalog; 5 species).

— Petri, 1912: 55 (list of species of Siebenbürgen).

— Leng, 1920: 95 (catalog of North American species).

— Winkler, 1925: 336 (catalog for Palearctic region).

— Roubal, 1930: 319 (catalog; Slovakia).

— Joy, 1932: 104 (key to British species).

— Scheerpeltz, 1933: 1070 (world catalog supplement).

— Kloet and Hincks, 1945: 161 (list of British species).

— Palm, 1948: 126 (characters; species of Sweden).

— Tottenham, 1949: 358, 408 (type species: *giraudi* Redtenbacher; list of British species).

— Blackwelder, 1952: 155 (type species: *giraudi*).

— Tottenham, 1954: 36 (characters; key to British species).

— Horion, 1963: 150 (list of central European species).

- Székessy, 1963: 23 (characters).
- Lohse, 1964: 68 (characters; key to central European species).
- Scheerpeltz, 1968a: 19 (catalog of Austrian species).
- Steel, 1970a: 22 (larval characters; biological notes).
- Tikhomirova, 1973a: 141 (checklist of species of USSR).
- Moore and Legner, 1975: 189 (catalog; North America north of Mexico).
- Shibata, 1976: 124 (checklist of species of Japan).
- Pope, 1977: 24 (list of British species).
- Topp, 1978: 308 (larval characters).
- Campbell, 1978: 1, 2 (placed in Anthophagini).
- Burakowski, Mroczkowski, and Stefańska, 1979: 77 (catalog; Poland).
- Moore and Legner, 1979: 164 (characters; notes).
- Muona, 1979: 18 (list of Scandinavian species).
- Tóth, 1982: 104 (characters; habitus; key to species of Hungary).
- Muona and Viramo, 1986: 16 (list of species of northeastern Finland).
- Zanetti, 1987: 424 (characters; habitus; species of Italy).
- Lohse and Lucht, 1989: 122 (characters).
- Zerche, 1989: 127 (placed in Coryphiini; characters; notes).
- Watanabe, 1990: 351 (characters; species of Japan).
- Zerche, 1990: 142 (placed in Coryphiini; characters; key to species of Palaearctic region; distribution; phylogenetic position).
- Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
- Boháč, 1993: 42 (list of species of Czech Republic and Slovakia).
- Zerche, 1993: 340, 342 (modification of key; phylogeny).
- Zanetti, 1995: 10 (list of species of Italy).
- Lundgren, 1998: 38 (list of species from Florida; records for other States listed for each species).
- Kashcheev, 1999: 144 (characters).
- Newton, Thayer, Ashe, and Chandler, 2000: 342 (1 Nearctic species; notes; characters in key).

Eudectoides Campbell, 1978: 2, 11 (species included: *crassicornis*). **TYPE SPECIES:** *Eudectus crassicornis* LeConte, fixed by original designation.

- Frank, 1986a: 365 (checklist of species of Florida).
- Zerche, 1990: 17, 144 (synonym of *Eudectus*).
- Lundgren, 1998: 38 (list of species from Florida; records for other States listed for each species).

altaiensis Zerche, 1990: 155 (*Eudectus*; Type locality: Altai).

▲ **DISTRIBUTION:** Altai region.

crassicornis LeConte, 1884: 4 (*Eudectus*; Type locality: Opelousas, La.).

- Bernhauer and Schubert, 1910: 82 (*Eudectus*; catalog).
- Campbell, 1978: 12 (*Eudectoides*; characters; Florida; Louisiana).
- Zerche, 1990: 299 (*Eudectus*; note).
- Zerche, 1993: 342 (*Eudectus*; characters; phylogenetic position; USA).
- Lundgren, 1998: 38 (*Eudectus*; Florida).

▲ **DISTRIBUTION:** USA.

gerhardti Pietsch, 1894, see: *giraudi* Redtenbacher, 1857.

giraudi Redtenbacher, 1857: 246 (*Eudectus*; Type locality: bei München).

- Kraatz, 1857d: 973 (*Eudectus*; characters; Germany).
- Thomson, 1861: 185 (*Eudectus*; characters; Scandinavia).
- Fauvel, 1871a: 105 [= 1872: 79] (*Eudectus*; characters; Scandinavia; Germany; Switzerland; Britain).
- Redtenbacher, 1874: 273 (*Eudectus*; characters).
- Seidlitz, 1875: 242 (*Coryphium*; characters; Baltic region).
- Mulsant and Rey, 1880: 400 (*Eudectus*; characters; France).
- Weise, 1884a: 271 (*Eudectus*; characters; Europe).

- Seidlitz, 1891a: 372 (*Eudectus*; characters; Europe).
- Ganglbauer, 1895: 703 (*Eudectus*; characters; Germany; Switzerland; Scotland; Sweden).
- Reitter, 1909: 181 (*Eudectus*; characters; Germany).
- Bernhauer and Schubert, 1910: 83 (*Eudectus*; catalog).
- Scheerpeltz, 1933: 1070 (*Eudectus*; catalog).
- Palm, 1948: 127 (*Eudectus*; characters; Sweden; Norway; Finland).
- Horion, 1963: 150 (*Eudectus*; Altai region; Finland; Sweden; Norway; Britain; Germany; Czech Republic; Slovakia; Poland; Hungary; Romania; France; Switzerland; Italy; Austria).
- Lohse, 1964: 68 (*Eudectus*; characters; central Europe).
- Tóth, 1982: 104 (*Eudectus*; characters).
- Zanetti, 1987: 426 (*Eudectus*; characters; Italy).
- Lucht, 1987: 90 (*Eudectus*; checklist; Germany; Poland; Czechoslovakia; Austria; France).
- Zerche, 1990: 147 (*Eudectus*; characters; phylogenetic position; Norway; Sweden; Finland; Russia; Germany; Poland; Czechoslovakia; Romania; Switzerland; Italy; Austria).
- Zerche, 1993: 353 (*Eudectus*; Poland; Austria).
- Boháč, 1993: 42 (*Eudectus*; Slovakia; Czech Republic).
- Zanetti, 1995: 10 (*Eudectus*; Italy).
- ▲ **DISTRIBUTION:** Europe, Russia.

gerhardti Pietsch, 1894: 17 (*Eudectus*; Type locality: Reinerz in Schlesien).

- Ganglbauer, 1895: 703 (*Eudectus*; characters; Schlesien).
- Reitter, 1909: 181 (*Eudectus*; characters; Germany).
- Bernhauer and Schubert, 1910: 82 (*Eudectus*; catalog).
- Scheerpeltz, 1933: 1070 (*Eudectus*; catalog).
- Lohse, 1964: 68 (*Eudectus*; characters; central Europe).
- Lucht, 1987: 91 (*Eudectus*; checklist; Poland; Czechoslovakia).
- Zerche, 1989: 127 (*Eudectus*; synonym of *giraudi*).
- Zerche, 1990: 148 (*Eudectus*; synonym of *giraudi*).
- Boháč, 1993: 42 (*Eudectus*; cited as valid species; Slovakia ?).

kulczynskii Rybiński, 1902: 4 (*Eudectus*; Type locality: Tatra Gebirge).

- Bernhauer and Schubert, 1910: 83 (*Eudectus*; catalog).
- Scheerpeltz, 1933: 1070 (*Eudectus*; synonym of *giraudi*).
- Tóth, 1982: 105 (*Eudectus*; cited as valid species; characters).
- Zerche, 1990: 148 (*Eudectus*; synonym of *giraudi*).
- Boháč, 1993: 42 (*Eudectus*; cited as valid species; Slovakia).

japonicus Zerche, 1990: 157 (*Eudectus*; Type locality: Japan: Hokkaido: Kotani).

▲ **DISTRIBUTION:** Japan.

kulczynskii Rybiński, 1902, see: *giraudi* Redtenbacher, 1857.

novayaezemlyae Munster, 1925, see: *whitei* Sharp, 1871.

reductus Zerche, 1993: 341 (*Eudectus*; Type locality: o. Vrangeljja [ostrov Vrangeljja: Wrangel-Insel]).

- Zerche, 1993: 344 (*Eudectus*; phylogenetic position).
- Ryabukhin, 1999: 30 (*Eudectus*; catalog; habitat; distribution; northeastern Russia).

▲ **DISTRIBUTION:** Wrangel Island.

rufulus Weise, 1877: 96 (*Eudectus*; variety of *giraudi*; Type locality: Hagi).

- Weise, 1884a: 271 (*Eudectus*; cited as species; characters; Japan).
- Sharp, 1889: 473 (*Eudectus*; cited as species; Japan).
- Bernhauer and Schubert, 1910: 83 (*Eudectus*; catalog).
- Nakane, 1963a: 83 (*Eudectus*; characters; habitus photograph; Japan).
- Watanabe, 1990: 353 (*Eudectus*; characters; Japan).
- Zerche, 1990: 146 (*Eudectus*; characters; phylogenetic position; Japan).
- Zerche, 1993: 343 (*Eudectus*; phylogenetic position).

▲ **DISTRIBUTION:** Japan.

whitei Sharp, 1871b: 73 (*Eudectus*; Type locality: Britain: Ben-a-Bhuird).

- Fowler, 1888: 409 (*Eudectus*; characters; Britain).
 - Ganglbauer, 1895: 703 (*Eudectus*; variety of *giraudi*).
 - Bernhauer and Schubert, 1910: 83 (*Eudectus*; variety of *giraudi*).
 - Scheerpeltz, 1933: 1070 (*Eudectus*; catalog).
 - Steel, 1970a: 22 (*Eudectus*; larval characters; biological notes).
 - Pope, 1977: 24 (*Eudectus*; Britain).
 - Zerche, 1990: 153 (*Eudectus*; characters; phylogenetic position; Britain; Russia).
 - Zerche, 1993: 344 (*Eudectus*; phylogenetic position).
 - Ryabukhin, 1999: 30 (*Eudectus*; catalog; habitat; distribution; northeastern Russia).
- ▲ **DISTRIBUTION:** Europe.

novayaezemlyae Munster, 1925: 6 (*Eudectus*; Type locality: Novaja Semlja, Ökland; [**Note:** See lectotype designation by Zerche, 1990]. Also cited from Mashigin Fj.; Gribovii Fj.).

- Scheerpeltz, 1933: 1070 (*Eudectus*; catalog).
- A. Strand, 1951: 104 (*Eudectus*; cited as *novayae zemlyae*; synonym of *whitei*).
- Pope, 1977: 24 (*Eudectus*; synonym of *whitei*).
- Zerche, 1990: 153 (*Eudectus*; lectotype designation: Novaj. Semlja; synonym of *whitei*).

Haida

[4 species; Nearctic Region]

Haida Keen, 1897: 285 (species included: *keeni*). **TYPE SPECIES:** *Haida keeni* Keen, fixed by monotypy.

- Bernhauer and Schubert, 1910: 50 (world catalog; 1 species).
- Leng, 1920: 94 (catalog of North American species).
- Blackwelder, 1952: 179 (type species: *keeni*).
- Hatch, 1957: 51, 73 (characters; species of Pacific Northwest).
- Moore and Legner, 1975: 192 (catalog; North America north of Mexico).
- Campbell, 1978: 3 (key to species; characters; should be placed in Anthophagini).
- Moore and Legner, 1979: 165 (characters; notes).
- Zerche, 1990: 250, 261 (removal from Coryphiini by Campbell, 1978, unjustified).
- Newton and Thayer, 1995: 294 (should be in Coryphiini; list of New World genera).
- Newton, Thayer, Ashe, and Chandler, 2000: 342 (4 Nearctic species; notes; characters in key).

bisulcata Campbell, 1978: 7 (*Haida*; Type locality: Cal.: El Dorado Co: Desol. Valley, Primitive Area below Eagle Lake, 6700 ft.).

▲ **DISTRIBUTION:** USA.

callosum Mäklin, 1852: 323 (*Omalium*; Type locality: insula Sitkha).

- Fauvel, 1878d: 208 [= 1878e: 44] (*Omalium*, cited as *Homalium*; characters; Alaska).
- Bernhauer and Schubert, 1910: 52 (*Omalium*; subgenus *Omalium*; catalog).
- Newton, Thayer, Ashe, and Chandler, 2000: 342 (*Haida*).

▲ **DISTRIBUTION:** USA.

insulcata Campbell, 1978: 8 (*Haida*; Type locality: Oregon: Wasco Co.: 11.1 mi. SE jct. US 26, Ore. 216, 2500 ft.).

▲ **DISTRIBUTION:** USA.

keeni Keen, 1897: 285 (*Haida*; Type locality: Massett, Queen Charlotte Island).

- Bernhauer and Schubert, 1910: 50 (*Haida*; catalog).
- Brown, 1944: 5 (*Haida*; characters; notes; British Columbia).
- Hatch, 1957: 73 (*Haida*; characters; British Columbia; Washington; Oregon).
- Campbell, 1978: 4 (*Haida*; characters; British Columbia; Alaska; Oregon; Washington).
- Campbell and Davies, 1991: 91 (*Haida*; checklist of species; Alaska and Canada).

▲ **DISTRIBUTION:** Canada, USA.

Holoboreaphilus

[1 species; Nearctic and Palaearctic Regions]

Holoboreaphilus Campbell, 1978a: 54 (species included: *nordenskioldi*). **TYPE SPECIES:** *Boreaphilus nordenskioldi* Mäklin, fixed by original designation.

- Zerche, 1990: 96 (characters; subfossil records; distribution; characters analysis; phylogenetic relationships).
- Downie and Arnett, 1996: 436 (characters; species of Northeastern North America).
- Newton, Thayer, Ashe, and Chandler, 2000: 342 (1 Nearctic species; notes; characters in key).

nearcticus Blair, 1933, see: *nordenskioldi* Mäklin, 1878.**nordenskioldi** Mäklin, 1878: 25 [= 1878a: 301] (*Boreaphilus*; Type locality: Insel Sopotschnoj, Sibir. Jeniseie, 70°5' N; [**Note:** See lectotype designation by Zerche, 1990]. Originally cited from Mesenkin, 71°20' n. lat; Briachowskij; Dudino, 69°15' n. lat; Sopotschnoj, 70°5' n. lat.).

- J. Sahlberg, 1880: 106 (*Boreaphilus*; characters; Siberia).
 - Mäklin, 1881: 42 (*Boreaphilus*; characters; Mesenkin, lat. bor. 71°20'; Dudino, lat. bor. 69°15').
 - Poppius, 1909: 6 (*Boreaphilus*; Lena Valley, Siberia).
 - Bernhauer and Schubert, 1910: 84 (*Boreaphilus*; catalog).
 - Munster, 1925: 7 (*Boreaphilus*; Novaya Zemlya).
 - Scheerpeltz, 1933: 1072 (*Boreaphilus*; catalog).
 - Steel, 1964a: 250 (*Boreaphilus*; Canada; Alaska).
 - Campbell, 1978a: 55 (*Holoboreaphilus*; characters; Northwest Territories; Quebec; Yukon Territory; Alaska).
 - Zerche, 1990: 97 (*Holoboreaphilus*; lectotype designation: Ins. Sopotschn. Sibir. Jeniseie; correction of spelling of name; characters; Russia).
 - Elias, 1991: 556 (*Holoboreaphilus*; Quaternary fossil collection; Montana).
 - Campbell and Davies, 1991: 89 (*Holoboreaphilus*; checklist of species; Alaska and Canada).
 - Zerche, 1993: 353 (*Holoboreaphilus*; Alaska).
 - Downie and Arnett, 1996: 436 (*Holoboreaphilus*; characters; Canada; USA).
 - Ryabukhin, 1999: 33 (*Holoboreaphilus*; catalog; habitat; distribution; northeastern Russia).
- ▲ **DISTRIBUTION:** Russia, Canada, USA.

nearcticus Blair, 1933: 95 (*Boreaphilus*; Type locality: Akpatok, Island, Ungava Bay).

- Steel, 1964a: 250 (*Boreaphilus*; synonym of *nordenskioldi*).
- Campbell, 1978a: 55 (*Holoboreaphilus*; synonym of *nordenskioldi*).
- Zerche, 1990: 97 (*Holoboreaphilus*; synonym of *nordenskioldi*).

Murathus

[1 species; Palaearctic Region]

Murathus Kashcheev, 1999: 144 (species included: *montanus*). **TYPE SPECIES:** *Murathus montanus* Kashcheev, fixed by original designation and monotypy.**montanus** Kashcheev, 1999: 146 (*Murathus*; Type locality: Tian'shan', Khr. Kungei Alatau, ushchel'e Kul'bastau, 2500-3200 m).▲ **DISTRIBUTION:** Kazakhstan.**Niphetodes**

[5 species; Palaearctic Region]

Niphetodes Miller, 1868: 16 (species included: *redtenbacheri*). **TYPE SPECIES:** *Niphetodes redtenbacheri* Miller, fixed by monotypy.

- Redtenbacher, 1874: 550 (characters).
- Fauvel, 1875a:V [= 1875b: 207] (catalog).
- Duvivier, 1883: 198 (catalog).
- Heyden, Reitter, and Weise, 1891: 118 (subgenus of *Boreaphilus*; list of species of Europe and Caucasus).
- Ganglbauer, 1895: 700 (subgenus of *Boreaphilus*).

- Ganglbauer, 1896: 174 (characters; notes; key to species).
- Heyden, Reitter, and Weise, 1906: 137 (list of species of Europe and Caucasus).
- Bernhauer and Schubert, 1910: 85 (world catalog; 7 species).
- Petri, 1912: 56 (list of species of Siebenbürgen).
- Winkler, 1925: 337 (catalog for Palaearctic region).
- Roubal, 1930: 320 (catalog; Slovakia).
- Scheerpeltz, 1933: 1073 (world catalog supplement).
- Blackwelder, 1952: 262 (type species: *redtenbacheri*).
- Horion, 1963: 156 (list of central European species).
- Székessy, 1963: 24 (characters).
- Lohse, 1964: 70 (characters).
- Tikhomirova, 1973a: 141 (checklist of species of USSR).
- Burakowski, Mroczkowski, and Stefańska, 1979: 79 (catalog; Poland).
- Tóth, 1982: 108 (characters; habitus; key to species of Hungary).
- Lohse and Lucht, 1989: 123 (characters).
- Zerche, 1989: 129 (complex of 3 genera; not in central Europe).
- Zerche, 1990: 101 (characters; key to species; characters analysis; phylogenetic relationships; distribution).
- Zerche, 1993: 335 (phylogenetic relationships).
- Kashcheev, 1999: 146 (characters).

apfelbecki Ganglbauer, 1892, see: *Pareudectus*.

cyrneus Orousset and Lecoq, 1988, see: *Niphedodops*.

deubeli Ganglbauer, 1896, see: *Hypsonothrus*.

eppelsheimi Ganglbauer, 1896, see: *Pareudectus*.

huppenthali Lokay, 1912, see: *Hypsonothrus*.

kreissli Zerche, 1990: 104 (*Niphedodes*; Type locality: Buleasee [Bîlea Lac]).

▲ **DISTRIBUTION:** Romania.

leonhardi Bernhauer, 1905, see: *Pareudectus*.

redtenbacheri Miller, 1868: 17 (*Niphedodes*; Type locality: Czerna hora; [**Note:** See lectotype designation by Zerche, 1990]).

- Redtenbacher, 1874: 550 (*Niphedodes*; characters).
- Ganglbauer, 1895: 700 (*Boreaphilus*; subgenus of *Niphedodes*; characters; east Carpathians).
- Ganglbauer, 1896: 177 (*Niphedodes*; characters; notes).
- Bernhauer and Schubert, 1910: 85 (*Niphedodes*; catalog).
- Scheerpeltz, 1933: 1073 (*Niphedodes*; catalog).
- Horion, 1963: 156 (*Niphedodes*; Carpathians).
- Tóth, 1982: 110 (*Niphedodes*; characters).
- Zerche, 1990: 110 (*Niphedodes*; lectotype designation; characters; Ukrainian Carpathians).

▲ **DISTRIBUTION:** Ukrainian Carpathians.

sahlbergi Apfelbeck, 1906, see: *Pareudectus*.

schoenmanni Zerche, 1990: 113 (*Niphedodes*; Type locality: Rodnaergebirge).

▲ **DISTRIBUTION:** Romania.

semicarinatus Zerche, 1990: 106 (*Niphedodes*; Type locality: Rodnaer - Gebirge).

▲ **DISTRIBUTION:** Romania.

spaethi Ganglbauer, 1900: 259 (*Niphedodes*; Type locality: Negoii [**Note:** See lectotype designation by Zerche, 1990]. Also cited from Siebenbürgen. Rodnaergebirge, Černahora).

- Bernhauer and Schubert, 1910: 85 (*Niphedodes*; catalog).
- Horion, 1963: 156 (*Niphedodes*; Romania; Slovakia).
- Tóth, 1982: 110 (*Niphedodes*; characters).
- Zerche, 1990: 108 (*Niphedodes*; lectotype designation: Negoii; characters; Romania).

▲ **DISTRIBUTION:** Romania.

winkleri Bernhauer, 1929, see: *Pareudectus*.

Occiophelinus

[1 species; Nearctic Region]

Occiophelinus Hatch, 1957: 52, 75 (species included: *vandykei*). **TYPE SPECIES:** *Occiophelinus vandykei* Hatch, fixed by original designation and monotypy.

- Moore and Legner, 1975: 198 (catalog; North America north of Mexico).
- Campbell, 1978a: 26 (synonym of *Coryphium*).
- Moore and Legner, 1979: 166 (characters; notes).
- Watanabe, 1988: 46 (synonym of *Coryphium*).
- Watanabe, 1990: 355 (synonym of *Coryphium*).
- Zerche, 1990: 31 (valid genus; removed from synonym with *Coryphium*).
- Newton, Thayer, Ashe, and Chandler, 2000: 342 (1 Nearctic species; notes; characters in key).

vandykei Hatch, 1957: 75 (*Occiophelinus*; Type locality: Washington: Mt. Rainier, Paradise Park, alt. 6000 ft.).

- Campbell, 1978a: 31 (*Coryphium*; characters; Oregon; Washington).

▲ **DISTRIBUTION:** USA.

Ophthalmoniphетodes

[15 species; Palaearctic Region]

Ophthalmoniphетodes Zerche, 1990: 115 (species included: *heidemariae*, *doeblerae*, *uhligi*, *behnei*, *ilievi*, *macrocephalus*, *musalensis*, *rhilensis*, *longicornis*, *gracilis*). **TYPE SPECIES:** *Ophthalmoniphетodes longicornis* Zerche, fixed by original designation.

- Zerche, 1993: 336, 339 (modification of key; phylogeny).

behnei Zerche, 1990: 123 (*Ophthalmoniphетodes*; Type locality: Sofia, Vitoscha-Gebirge, Malak Resen, 2000 m).

- Zerche, 1993: 353 (*Ophthalmoniphетodes*; Bulgaria).

▲ **DISTRIBUTION:** Bulgaria.

doeblerae Zerche, 1990: 121 (*Ophthalmoniphетodes*; Type locality: SW-Bulg.: Rila-Gebirge, Hütte Maljovica, 2100 m).

▲ **DISTRIBUTION:** Bulgaria.

falakroensis Assing and Wunderle, 1999a: 477 (*Ophthalmoniphетodes*; Type locality: GR. [NE], Makedhonia, Dráma, Falakró, 1800 m).

▲ **DISTRIBUTION:** Greece.

gracilis Zerche, 1990: 131 (*Ophthalmoniphетodes*; Type locality: Bulgarien: Pirin-Geb., Hütte Wichren, 2050 m).

▲ **DISTRIBUTION:** Bulgaria.

heidemariae Zerche, 1990: 119 (*Ophthalmoniphетodes*; Type locality: Bulgaria: Pirin-Gebirge, Hütte Wichren, 2050 m).

▲ **DISTRIBUTION:** Bulgaria.

ilievi Zerche, 1990: 124 (*Ophthalmoniphетodes*; Type locality: Sofia, Vitoscha-Geb. bei Aleko, 2000 m).

▲ **DISTRIBUTION:** Bulgaria.

longicornis Zerche, 1990: 130 (*Ophthalmoniphетodes*; Type locality: Bulgarien: Pirin-Gebirge, Hütte Wichren, 2050 m).

▲ **DISTRIBUTION:** Bulgaria.

macrocephalus Zerche, 1990: 126 (*Ophthalmoniphетodes*; Type locality: Bulgarien: Pirin-Gebirge, Hütte Wichren, 2050 m).

▲ **DISTRIBUTION:** Bulgaria.

maljovicensis Zerche, 1993: 338 (*Ophthalmoniphетodes*; Type locality: Bulg., Rila-Geb., Umg. Hütte Maljovica, 2100 m).

▲ **DISTRIBUTION:** Bulgaria.

musalensis Zerche, 1990: 127 (*Ophthalmoniphетodes*; Type locality: SW-Bulgarien, Rila-Gebirge, Hütte Musala, 2300 m).

▲ **DISTRIBUTION:** Bulgaria.

- pangoensis** Assing and Wunderle, 1999a: 478 (*Ophthalmoniphетodes*; Type locality: GR. [NE], Makedhonia, NW Kavála, Pangéo, 1900 m).
▲ **DISTRIBUTION:** Greece.
- piger** Zerche, 1993: 337 (*Ophthalmoniphетodes*; Type locality: SW-Bulg., Rila-Geb., Hütte Musala, 2300 m).
▲ **DISTRIBUTION:** Bulgaria.
- rhilensis** Zerche, 1990: 128 (*Ophthalmoniphетodes*; Type locality: SW-Bulgarien, Rila-Gebirge, Umgebung Granschar, 2185 m).
▲ **DISTRIBUTION:** Bulgaria.
- uhligi** Zerche, 1990: 122 (*Ophthalmoniphетodes*; Type locality: Bulgarien: Sitnjakowo [Schloss bei Borovez], 1730 m, Tschetér Tepé [Tschadjar Tepe]).
▲ **DISTRIBUTION:** Bulgaria.
- zerchei** Assing and Wunderle, 1999a: 475 (*Ophthalmoniphетodes*; Type locality: GR. [NE], Makedhonia, Dráma, Falakró, 1800 m).
▲ **DISTRIBUTION:** Greece.

Pareudectus

[3 species; Palaearctic Region]

Pareudectus Zerche, 1990: 132 (species included: *leonhardi*, *apfelbecki*, *eppelsheimi*). **TYPE SPECIES:** *Niphетodes apfelbecki* Ganglbauer, fixed by original designation.

- apfelbecki** Ganglbauer, 1892: 17 (*Niphетodes*; Type locality: Sarajevo; ca. 1500 m; [**Note:** See lectotype designation by Zerche, 1990]).
— Ganglbauer, 1895: 701 (*Boreaphilus*; subgenus *Niphетodes*; characters; Bosnia).
— Ganglbauer, 1896: 177, 178 (*Niphетodes*; characters; notes).
— Bernhauer and Schubert, 1910: 85 (*Niphетodes*; catalog).
— Zerche, 1990: 136 (*Pareudectus*; lectotype designation; characters; Yugoslavia).
— Zerche, 1993: 353 (*Pareudectus*; Bosnia-Herzegovina).
▲ **DISTRIBUTION:** Bosnia Herzegovina.
- eppelsheimi** Ganglbauer, 1896: 177, 178 (*Niphетodes*; Type locality: Rodnaer Alpen, Gipfel des Koronjjs; [**Note:** See lectotype designation by Zerche, 1990]).
— Bernhauer and Schubert, 1910: 85 (*Niphетodes*; catalog).
— Horion, 1963: 156 (*Niphетodes*; Slovakia).
— Tóth, 1982: 109 (*Niphетodes*; characters).
— Zerche, 1990: 139 (*Pareudectus*; lectotype designation; characters; USSR; Romania).
▲ **DISTRIBUTION:** Romania, Ukraine.
- leonhardi** Bernhauer, 1905b: 588 (*Niphетodes*; Type locality: Bjelašnica-Planina an der Grenze Bosniens und der Herzegowina; [**Note:** See lectotype designation by Zerche, 1990]).
— Bernhauer and Schubert, 1910: 85 (*Niphетodes*; catalog).
— Scheerpeltz, 1933: 1073 (*Niphетodes*; catalog).
— Zerche, 1990: 134 (*Pareudectus*; lectotype designation; characters; Yugoslavia).
▲ **DISTRIBUTION:** Bosnia Herzegovina.
- sahlbergi** Apfelbeck, 1906: 247 (*Niphетodes*; Type locality: Bosna: palnini Ljubični na juгоistoku Bosne na turskoj megji na Treskovici kod Sarajeva [**Note:** See lectotype designation by Zerche, 1990]).
— Apfelbeck, 1907: 641 (*Niphетodes*; Bosnia).
— Bernhauer and Schubert, 1910: 85 (*Niphетodes*; catalog).
— Zerche, 1990: 134 (*Pareudectus*; lectotype designation: Trescavica pl; synonym of *leonhardi*).
- winkleri** Bernhauer, 1929g: 180 (*Niphетodes*; Type locality: Orjengebirge in der nördlichen Herzegowina).
— Scheerpeltz, 1933: 1073 (*Niphетodes*; catalog).
— Zerche, 1990: 134 (*Pareudectus*; synonym of *leonhardi*).
- sahlbergi* Apfelbeck, 1906, see: *leonhardi* Bernhauer, 1905.
- winkleri* Bernhauer, 1929, see: *leonhardi* Bernhauer, 1905.