



## OMALIINAE



[125 genera; 1458 species; All Regions]

Omaliiinae W. S. MacLeay, 1825.

- Eichelbaum, 1909: 96 (list of genera with some references; generic synonyms; number of genera; number of species in each genus; general distribution of genera).
- Reitter, 1909: 178 (characters; cited as Omalinae; key to German genera).
- Portevin, 1929: 429 (characters; key to French genera).
- Böving and Craighead, 1930: 29 (larval characters).
- Joy, 1932: 92 (key to British tribes).
- Bernet Kempers, 1941: 34, 36 (larval characters).
- Blackwelder, 1943: 51 (key to genera from West Indies).
- Palm, 1948: 52 (characters; keys to Swedish genera and species).
- Tottenham, 1954: 16 (characters; key to British genera).
- Crowson, 1955: 33, 37 (adult and larval characters in key; relationships).
- Hatch, 1957: 47, 48 (characters; key to genera of Pacific Northwest).
- Steel, 1960: 8 (key to species of New Caledonia).
- Lohse, 1961a (elytral reduction and species systematics).
- Arnett, 1963: 239, 257 (key to North American genera; characters; list of North American genera).
- Steel, 1963: 52 (list of species of Malham Tarn; collecting notes; Britain).
- Lohse, 1964: 25 (characters; key to central European genera and species).
- Moore, 1964a: 87 (characters; notes).
- Kasule, 1966: 265, 268 (larval characters; notes).
- Coiffait and Saiz, 1968: 448 (characters; key to Chilean genera).
- Kasule, 1968: 132 (larval characters; larval key to genera).
- Scheerpeltz, 1968a: 5 (catalog of Austrian species).
- Steel and Woodroffe, 1969: 135 (list of species collected from Isle of Rhum; collecting notes).
- Britton, 1970: 546 (characters of adults; Australia; notes).
- Steel, 1970a (larval characters; notes on rearing methods; key to British larvae).
- Moore and Legner, 1974g: 551 (key to genera of America north of Mexico).
- Moore and Legner, 1974h: 473 (catalog of the taxonomy, biology, and ecology of developmental stages of species of America north of Mexico).
- Moore and Legner, 1975: 178 (catalog; North America north of Mexico).
- Klinger and Maschwitz, 1977: 402 (morphology and chemical secretions of defensive glands).
- Topp, 1978: 306, 308 (larval characters; key to genera).
- Burakowski, Mroczkowski, and Stefańska, 1979: 16 (catalog; Poland).
- Moore and Legner, 1979: 160 (characters; tabular key to tribes and genera of North America north of Mexico).
- Muona, 1979: 17 (list of Scandinavian species).
- Tóth, 1981: 94 (list of species of Hortobágy National Park, Hungary).
- Watt and McColl, 1982: 13, 19 (characters; notes on New Zealand taxa).
- Tóth, 1982: 31 (characters; key to genera and species of Hungary).
- E. Matthews, 1982: 8, 27 (notes; key to genera of Australia).
- Outerelo and Gamarra, 1985: 78 (key to genera of Iberian Peninsula).
- Thayer, 1985a: 182 (larval characters).
- Dettner, 1987: 28 (defensive glands).
- Zanetti, 1987: 1–46 (characters; morphology of adults and larvae; biology; behavior; parasites; ecology; zoogeography; paleontology; collecting techniques; key to species of Italy).
- Thayer, 1987: 400 (phylogenetic relationships).
- Lohse and Lucht, 1989: 122 (supplement for characters and key to genera of Lohse, 1964).
- Watanabe, 1990 (characters; key to tribes, genera, and species of Japan; relationships of genera).
- Zerche, 1990: 12 (monophyly of Omaliiinae discussed; phylogenetic position of Coryphiini unclear).

- Dettner and Reissenweber, 1991 (defensive secretions: chemistry and systematics).
  - Frank, 1991: 344 (larval characters).
  - Frania, 1992 (studies on ecdysis and metamorphosis).
  - Zerche, 1992a: 138 (phylogeny of genera of *Hygrogeus* group).
  - Newton and Thayer, 1992: 13, 57 (summary of current classification; discussion).
  - Welch, 1993 (ovariole structure and development).
  - Dettner, 1993a (summary and discussion of defensive secretions and exocrine glands and their bearing on phylogeny).
  - Sparacio, 1995: 139 (characters; species of Sicily).
  - Newton and Thayer, 1995: 247–286, 288, 292 (key to and phylogenetic analysis of omaliine group of subfamilies; characters; discussion; may not be monophyletic).
  - Lawrence and Newton, 1995: 824 (discussion).
  - Klimaszewski, Newton, and Thayer, 1996: 146 (review of subfamily for New Zealand; notes; list of genera; number of New Zealand species).
  - M. Hansen, 1996: 35, 93 (listed in Omaliine group of subfamilies; list of Danish species).
  - Downie and Arnett, 1996: 429 (characters; key to genera and species of Northeastern North America).
  - Ádám, 1996: 237 (list of species collected in Bükk National Park, Hungary).
  - M. Hansen, 1997: 83, 84, 85, 113, 176, 178 (characters supporting clade; autapomorphic features; key adult and larval characters; notes).
  - Anderson, Nash, and O'Connor, 1997: 15 (annotated checklist; Ireland).
  - Assing, 1998f: 124 (supplement to key to genera in Lohse, 1964).
  - Cuccodoro, 1999: 388 (device for rearing small hygrophilous beetles).
  - Newton, Thayer, Ashe, and Chandler, 2000: 281, 335 (key to Nearctic tribes and genera; characters; notes).
  - Naomi, Kuranishi, Saito, and Maruyama, 2000: 102 (collected from Kuril Islands and Kamchatka).
  - Klimaszewski, 2000: 16, 29 (characters; notes on classification, natural history, distribution, and key to tribes in Canada and Alaska).
- Omalidae W. S. MacLeay, 1825: 49, 50 (genera included: *Lesteva*; [**Note:** Only one genus, *Lesteva*, is cited (p. 50) by name. On page 49 Omalidae is cited in a list that showed it to be equal to Latreille's group "Aplatis", cited as Applatis. In Aplatis Latreille listed the following genera: "Prognathe (*Siagone*, Kirby), Zirophore (Dalm., *Lep-tochire*, Germar); Osorius, Oxytèle, Pieste, Omalie, Lestève, Proteine, Aléochare."]. **TYPE GENUS:** *Omalium* (see Newton and Thayer, 1992: 57).
- Heer, 1839a: 4 (cited as family).
- Oмалиитae:
- Jeannel and Jarrige, 1949: 311 (characters).
- Omalides Mannerheim, 1830: 9 (genera included: *Phloeocharis*, *Taenosoma*, *Omalium*, *Anthobium*, *Acidota*, *Lesteva*, *Proteinus*, *Micropeplus*). **TYPE GENUS:** *Omalium* (see Newton and Thayer, 1992: 57).
- Newton and Thayer, 1992: 57 (synonym of Omaliinae).
- Homalioidae Agassiz, 1847: 184 (emendation). **TYPE GENUS:** *Omalium*, cited as *Homalium* (see Newton and Thayer, 1992: 57).
- Newton and Thayer, 1992: 57 (synonym of Omaliinae).

### Tribe Anthophagini

Anthophagini Thomson, 1859.

- Portevin, 1929: 431 (key to French genera).
- Hatch, 1957: 49 (characters; key to genera of Pacific Northwest).
- Arnett, 1963: 239, 257 (key to North American genera; characters; list of North American genera).
- Moore, 1966: 47, 48 (characters; key to Nearctic genera).
- Campbell, 1978: 1 (*Eudectus*, *Haida*, *Pseudohaida* included).

- Moore and Legner, 1979: 172 (characters; tabular key to genera of North America north of Mexico).
  - Muona, 1979: 18 (list of Scandinavian species).
  - Thayer, 1985a: 182 (characters; may not be monophyletic).
  - Watanabe, 1990: 116, 377 (characters; key to genera of Japan; relationships of genera).
  - Zerche, 1990: 261 (*Eudectus* excluded; *Haida*, *Pseudohaida* probably excluded; Anthophagini probably polyphyletic).
  - Newton and Thayer, 1992: 57 (tribe of Omaliinae).
  - Zerche, 1992a: 137 (phylogenetic relationships of genera of Hygrogeus group; characters; discussion; distribution).
  - Newton and Thayer, 1995: 247–286, 294 (phylogenetic relationships; characters; discussion; may be paraphyletic).
  - M. Hansen, 1996: 95 (list of Danish species).
  - Newton, Thayer, Ashe, and Chandler, 2000: 283 (key to Nearctic genera).
  - Newton, Thayer, Ashe, and Chandler, 2000: 338 (characters; notes).
- Anthophagini Thomson, 1859.
- Outerelo and Gamarra, 1985: 85 (key to genera of Iberian Peninsula).
- Anthophagides Thomson, 1859: 48 (genera included: *Anthophagus*, *Geodromicus*, *Lesteva*, *Boreaphilus*, *Coryphium*). **TYPE GENUS:** *Anthophagus* (see Newton and Thayer, 1992: 57).
- Brathinidae LeConte, 1861a: 48, 52 (genera included: *Brathinus*). **TYPE GENUS:** *Brathinus* (see Newton and Thayer, 1992: 57).
- Hammond, 1971b: 63 (discussion of familial placement; belongs in the Omaliinae).
  - Shibata, 1976: 96 (placed in Omaliinae).
  - Newton and Thayer, 1992: 57 (synonym of Anthophagini).
- Lestévates Mulsant and Rey, 1880: 8 (genera included: *Anthophagus*, *Geodromicus*, *Lesteva*, *Phagnathus*). **TYPE GENUS:** *Lesteva* (see Newton and Thayer, 1992: 57).
- Newton and Thayer, 1992: 57 (synonym of Anthophagini).
- Lestevina Jakobson, 1908: 445, 450 (replacement name for Homaliina; genera included: *Anthobium*, *Acrulia*, *Omaliium*, cited as *Homaliium*, *Pycnoglypta*, *Acrolocha*, *Phyllo-drepa*, *Phloeonomus*, *Carcinocephalus*, *Micralymma*, *Derops*, *Xylodromus*, *Phlorinum*, *Acidota*, *Porrhodites*, *Cylletron*, *Lathrimaeum*, *Olophrum*, *Orochares*, *Arpedium*, *Deliphrum*, *Mannerheimia*, *Trigonodemus*, *Phyllodrepoidea*, *Amphichroum*, *Lesteva*, *Geodromicus*, *Hygrogeus*, *Anthophagus*, *Hadrognathus*, *Eudectus*, *Coryphium*, *Coryphiodes*, *Boreaphilus*, *Niphetodes*, *Tetradelus*). **TYPE GENUS:** *Lesteva* (see Newton and Thayer, 1992: 57).
- Newton and Thayer, 1992: 57 (synonym of Anthophagini).
- Lestevini Jakobson, 1908.
- Jakobson, 1908: 445, 449 (characters; list of species of Russia and western Europe).
  - Tikhomirova, 1968: 141 (fossil species).

### Acidota

[12 species; Nearctic and Palaeartic Regions]

- Acidota* Stephens, 1829a: 25 (species included: *crenata*, *rufa*). **TYPE SPECIES:** *Staphylinus crenatus* Fabricius, fixed by subsequent designation by Westwood, 1838a: 18.
- Stephens, 1829: 298 (catalog; Britain).
  - Mannerheim, 1830: 10, 55 (key; characters).
  - Mannerheim, 1831: 424, 469 (key; characters).
  - Dejean, 1833: 69 (list of species).
  - Stephens, 1834: 357 (characters; habitat).
  - Lacordaire, 1835: 476 (characters).
  - Westwood, 1838a: 18 (characters; type species).
  - Erichson, 1839a: 620 (characters).
  - Heer, 1839: 189 (characters).

- Stephens, 1839: 422 (characters).
- Erichson, 1840: 860 (characters).
- Laporte, 1840: 192 (characters).
- Redtenbacher, 1849: 748 (characters).
- Schaum, 1852: 30 (list of species; Europe).
- Lacordaire, 1854: 139 (characters; notes; list of species).
- Fairmaire and Laboulbène, 1856: 633 (characters).
- Gistel, 1856: 389 (list of species).
- Jacquelin du Val, 1857: 72 (characters).
- Redtenbacher, 1857: 247 (characters).
- Kraatz, 1857d: 935 (characters).
- Thomson, 1858: 38 (characters).
- G. Waterhouse, 1858: 31 (catalog of British species).
- Thomson, 1859: 51 (characters; type species: *crenata*).
- Schaum, 1859: 31 (catalog; European species).
- LeConte, 1861a: 70 (characters).
- Thomson, 1861: 203 (characters).
- LeConte, 1863: 26 (list of North American species).
- Wencker and Silbermann, 1866: 36 (list of species; collecting notes; France).
- Gemminger and Harold, 1868: 659 (catalog).
- Jacquelin du Val, 1868: 80 (catalog; European species).
- Fauvel, 1871a: 114 [= 1872: 88] (characters).
- Sharp, 1871d: 14 (list of British species).
- Redtenbacher, 1874: 267 (characters; key to Austrian species).
- Fauvel, 1875a: VI [= 1875b: 208] (catalog).
- Provancher, 1877: 259 (characters).
- Fauvel, 1878d: 227 [= 1878e: 63] (key to North American species).
- Mulsant and Rey, 1880: 101 (characters; key to French species).
- Heyden, 1880: 82 (list of species of Siberian region).
- Fowler, 1888: 403 (notes).
- Seidlitz, 1891: 338 (key to some European species).
- Seidlitz, 1891a: 360 (key to some European species).
- Heyden, Reitter, and Weise, 1891: 119 (list of species of Europe and Caucasus).
- Ganglbauer, 1895: 716 (adult and larval characters).
- Heyden, 1896: 37 (list of species of Siberian region).
- Luze, 1905b: 69 (characters; revision of and key to Palaearctic species).
- Heyden, Reitter, and Weise, 1906: 134 (list of species of Europe and Caucasus).
- Sainte-Claire Deville, 1907: 45 (characters; key to and annotated list of species of Seine Basin, France).
- Reitter, 1909: 185 (characters; key to German species).
- Bernhauer and Schubert, 1910: 69 (world catalog; 8 species).
- Blatchley, 1910: 477 (characters).
- Petri, 1912: 54 (list of species of Siebenbürgen).
- Johansen, 1914: 598 (characters).
- Leng, 1920: 95 (catalog of North American species).
- Winkler, 1925: 334 (catalog for Palaearctic region).
- Porta, 1926: 27 (characters; key to species of Italy).
- Portevin, 1929: 439 (characters; key to French species).
- Roubal, 1930: 315 (catalog; Slovakia).
- Joy, 1932: 103 (key to British species).
- Scheerpeltz, 1933: 1061 (world catalog supplement).
- Kloet and Hincks, 1945: 161 (list of British species).
- Scheerpeltz, 1947: 266 (key to Palaearctic species).
- Palm, 1948: 113 (characters; key to species of Sweden).
- Tottenham, 1949: 357, 407 (type species: *crenata* Fabricius; list of British species; notes).
- Blackwelder, 1952: 35 (type species).

- Tottenham, 1954: 31 (characters; key to British species).
- Hatch, 1957: 50, 68 (characters; species of Pacific Northwest).
- Kocher, 1958: 95 ([queried] list of species; Morocco).
- Horion, 1963: 121 (list of central European species).
- Székessy, 1963: 20 (characters).
- Lohse, 1964: 57 (characters; key to central European species).
- Moore, 1966: 48, 51 (characters; notes).
- Scheerpeltz, 1968a: 15 (catalog of Austrian species).
- Steel, 1970a: 20 (larval characters; biological notes).
- Tikhomirova, 1973a: 140 (checklist of species of USSR).
- Moore and Legner, 1975: 178 (catalog; North America north of Mexico).
- Shibata, 1976: 111 (checklist of species of Japan).
- Pope, 1977: 22 (list of British species).
- Topp, 1978: 308 (larval characters).
- Burakowski, Mroczkowski, and Stefańska, 1979: 63 (catalog; Poland).
- Moore and Legner, 1979: 175 (characters; notes).
- Muona, 1979: 18 (list of Scandinavian species).
- Uhlig, 1979: 243 (some species collected in Germany).
- Uhlig and Vogler, 1981: 88 (list of some species collected in Germany; habitat and collecting notes).
- Campbell, 1982b: 1005 (revision of and key to North American species; characters; habitus).
- Tóth, 1982: 88 (characters; habitus; key to species of Hungary).
- Muona and Viramo, 1986: 15 (list of species of northeastern Finland).
- Segers, 1986: 22 (checklist of species; Belgium).
- Zanetti, 1987: 319 (characters; habitus; key to species of Italy).
- Watanabe, 1990: 141, 377 (characters; key to species of Japan; relationships of genera).
- 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).
- Siitonen, 1993: 230 (list of Finnish species).
- Smetana, 1993a: 71 (key to Taiwanese species).
- Welch, 1993 (ovariole structure and development).
- Boháč, 1993: 41 (list of species of Czech Republic and Slovakia).
- M. Hansen, Liljehult, Mahler, and Pedersen, 1995: 27 (additional records to Danish list of species).
- Zanetti, 1995: 8 (list of species of Italy).
- M. Hansen, 1996: 95 (list of Danish species).
- M. Hansen, Mahler, Palm, and Pedersen, 1996: 240 (additions to list of Danish species).
- Downie and Arnett, 1996: 434 (characters; key to species of Northeastern North America).
- Newton, Thayer, Ashe, and Chandler, 2000: 338 (3 Nearctic species; notes; characters in key).

*Helobium* Gistel, 1834: 9 (species included: *crenatum*). **TYPE SPECIES:** *Staphylinus crenatus* Fabricius, fixed by monotypy.

- Blackwelder, 1952: 182 (type species: *crenatum*; synonym of *Acidota*).

*alpina* Heer, 1839, see: *Olophrum*.

*baicalensis* Motschulsky, 1860, see: *Pycnoglypta*.

*castanea* Gravenhorst, 1806, see: *crenata* Fabricius, 1793.

**caucasica** Reitter, 1909: 185 (*Acidota*; Type locality: Kaukasus, Swanetien).

- Scheerpeltz, 1933: 1061 (*Acidota*; catalog).
- Scheerpeltz, 1947: 267 (*Acidota*; characters).

▲ **DISTRIBUTION:** Georgia.

**clandestina** Luze, 1905b: 75 (*Acidota*; Type locality: Kroatien, Sljeme Gebirge).

- Bernhauer and Schubert, 1910: 69 (*Acidota*; cited as *claudestina*; catalog).
- Scheerpeltz, 1947: 267 (*Acidota*; characters).

▲ **DISTRIBUTION:** Croatia.

- crenata** Fabricius, 1793: 525 (*Staphylinus*; Type locality: Germania).  
 — Panzer, 1795: 354 (*Staphylinus*; characters; Germany).  
 — Paykull, 1800: 403 (*Staphylinus*; characters; Sweden).  
 — Fabricius, 1801: 596 (*Staphylinus*; characters; Germany).  
 — Turton, 1802: 512 (*Staphylinus*; characters; Germany).  
 — Gyllenhal, 1810: 230 (*Omalium*; characters; Sweden).  
 — Olivier, 1811: 476 (*Omalium*; characters; Sweden; Germany).  
 — Zetterstedt, 1828: 55 (*Omalium*; characters; Lapland).  
 — Curtis, 1829: 29 (*Omalium*; catalog; Britain).  
 — Mannerheim, 1830: 55 (*Acidota*; Finland; Sweden; Russia).  
 — Mannerheim, 1831: 469 (*Acidota*; Finland; Sweden; Russia).  
 — Stephens, 1834: 358 (*Acidota*; characters; England; Scotland).  
 — Lacordaire, 1835: 476 (*Acidota*; characters; France).  
 — Westwood, 1838a: 18 (*Acidota*; type species).  
 — Zetterstedt, 1838: 53 (*Omalium*; characters; habitat; Lapland).  
 — Erichson, 1839a: 620 (*Acidota*; characters; Germany).  
 — Heer, 1839: 189 (*Acidota*; characters; Switzerland).  
 — Stephens, 1839: 430 (*Omalium*; characters; England).  
 — Erichson, 1840: 861 (*Acidota*; characters; Europe).  
 — Laporte, 1840: 191 (*Omalium*; characters; France).  
 — Redtenbacher, 1849: 748 (*Acidota*; characters; Austria).  
 — Hardy, 1851: 57 (*Acidota*; notes; England).  
 — Fairmaire and Laboulbène, 1856: 634 (*Acidota*; characters; France).  
 — Redtenbacher, 1857: 247 (*Acidota*; characters; Austria).  
 — Kraatz, 1857d: 936 (*Acidota*; characters; Germany).  
 — Thomson, 1859: 51 (type species of *Acidota*).  
 — Thomson, 1861: 204 (*Acidota*; characters; Scandinavia).  
 — Fauvel, 1865a: 318 [= 1865b: 68] (*Acidota*; habitat; France).  
 — Fauvel, 1871a: 115 [= 1872: 89] (*Acidota*; characters; France; Europe; Italy; North America).  
 — Redtenbacher, 1874: 267 (*Acidota*; characters; Austria).  
 — Seidlitz, 1875: 233 (*Acidota*; characters; Baltic region).  
 — J. Sahlberg, 1876: 217 (*Acidota*; Finland).  
 — Fauvel, 1878d: 228 [= 1878e: 64] (*Acidota*; characters; Lake Superior; Michigan).  
 — Mulsant and Rey, 1880: 104 (*Acidota*; characters; France).  
 — Fowler, 1888: 403 (*Acidota*; characters; Britain).  
 — Ganglbauer, 1895: 717 (*Acidota*; characters; north and middle Europe; Caucasus; Siberia; North America).  
 — Luze, 1905b: 73 (*Acidota*; characters; northern and central Europe; Siberia; North America).  
 — Poppus, 1909: 6 (*Acidota*; Lena Valley, Siberia).  
 — Reitter, 1909: 185 (*Acidota*; characters; Germany).  
 — Bernhauer and Schubert, 1910: 69 (*Acidota*; catalog).  
 — Johansen, 1914: 598 (*Acidota*; characters; Denmark).  
 — Bernhauer, 1926g: 2 (*Acidota*; Kamchatka region).  
 — Portevin, 1929: 439 (*Acidota*; characters; France).  
 — Scheerpeltz, 1933: 1061 (*Acidota*; catalog).  
 — Scheerpeltz, 1947: 266 (*Acidota*; characters).  
 — Palm, 1948: 115 (*Acidota*; characters; Sweden; Denmark; Norway; Finland).  
 — Hatch, 1957: 68 (*Acidota*; characters; British Columbia; Washington).  
 — Larsson and Gígja, 1959: 68 (*Acidota*; biological notes; Iceland).  
 — Horion, 1963: 121 (*Acidota*; Caucasus; Siberia; Scotland; Finland; Sweden; Russia; Pyrenees; Italy; Austria; Romania; Hungary; Czechoslovakia; Poland; Germany; Austria).  
 — Lohse, 1964: 58 (*Acidota*; characters; central Europe).  
 — Smetana, 1964d: 55 (*Acidota*; Czechoslovakia).  
 — Smetana, 1968: 228 (*Acidota*; notes; Mongolia).  
 — Kasule, 1968a: 70 (*Acidota*; life history).  
 — Steel, 1970a: 20 (*Acidota*; biological notes).

- Ashworth, 1972: 214 (*Acidota*; late-glacial subfossil; Britain).
  - Shibata, 1974: 39 (*Acidota*; Japan).
  - Pope, 1977: 22 (*Acidota*; Britain).
  - Hammond, 1980: 136 (*Acidota*; Ireland).
  - Schwert and Morgan, 1980: 101 (*Acidota*; late glacial fossil; New York).
  - Campbell, 1982b: 1009 (*Acidota*; characters; Alberta; British Columbia; Manitoba; Newfoundland; Labrador; Saskatchewan; Ontario; Prince Edward Island; Quebec; Alaska; Colorado; Illinois; Indiana; Maine; Massachusetts; Michigan; New Hampshire; New Jersey; New York; North Carolina; Washington).
  - Tóth, 1982: 88 (*Acidota*; characters).
  - Miller and Morgan, 1982: 264 (*Acidota*; Postglacial fossils; New York).
  - Yuh, Paik, Kwon, and Lee, 1985: 225 (*Acidota*; Korea).
  - Morgan and Morgan, 1985: 1819 (*Acidota*; middle Holocene fossil; Michigan).
  - Zanetti, 1987: 320 (*Acidota*; characters; Italy).
  - Ádám, 1987: 138 (*Acidota*; collecting notes; Hungary).
  - Lucht, 1987: 89 (*Acidota*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux; Denmark; Sweden).
  - Schülke and Uhlig, 1988: 3 (*Acidota*; Germany).
  - Wittwer, 1993: 248 (*Acidota*; Switzerland).
  - Boháč, 1993: 41 (*Acidota*; Slovakia; Czech Republic).
  - Zanetti, 1995: 8 (*Acidota*; Italy).
  - Downie and Arnett, 1996: 434 (*Acidota*; characters; Canada; USA).
  - Lemdahl and Gustavsson, 1997: 181 (*Acidota*; collected in lateglacial and middle Holocene deposits; Sweden).
  - Ryabukhin, 1999: 27 (*Acidota*; catalog; habitat; distribution; northeastern Russia).
  - Cibujskis, 1999: 36 (*Acidota*; list; Latvia).
  - ▲ **DISTRIBUTION:** Iceland, Europe, Russia, Mongolia, Korea, Japan, Canada, USA.
- rufa* Gravenhorst, 1802: 115 (*Omalium*; Type locality: Brunsvigae).
- Latreille, 1804: 372 (*Omalium*; characters; Germany).
  - Gravenhorst, 1806: 207 (*Omalium*).
  - Olivier, 1811: 476 (*Omalium*; characters; Brunswick).
  - Curtis, 1829: 29 (*Omalium*; catalog; Britain).
  - C. Sahlberg, 1830: 288 (*Omalium*; characters; Finland).
  - Mannerheim, 1830: 55 (*Acidota*; Finland).
  - Mannerheim, 1831: 469 (*Acidota*; Finland).
  - Stephens, 1834: 35 (*Acidota*; characters; England; Scotland).
  - Erichson, 1839a: 620 (*Acidota*; synonym of *crenata*).
  - Stephens, 1839: 430 (*Acidota*; characters; England).
  - Erichson, 1840: 861 (*Acidota*; synonym of *crenata*).
  - Laporte, 1840: 192 (*Acidota*; characters; Germany; Sweden; France).
  - Kraatz, 1857d: 936 (*Acidota*; synonym of *crenata*).
  - Thomson, 1861: 204 (*Acidota*; characters; Scandinavia).
  - Fauvel, 1869: 493 (*Acidota*; synonym of *crenata*).
  - Fauvel, 1871a: 115 [= 1872: 89] (*Acidota*; synonym of *crenata*).
  - Mulsant and Rey, 1880: 104 (*Acidota*; synonym of *crenata*).
  - Ganglbauer, 1895: 717 (*Acidota*; synonym of *crenata*).
  - Luze, 1905b: 73 (*Acidota*; synonym of *crenata*).
  - Bernhauer and Schubert, 1910: 69 (*Acidota*; synonym of *crenata*).
  - Scheerpeltz, 1933: 1061 (*Acidota*; aberration of *crenata*).
  - Campbell, 1982b: 1010 (*Acidota*; synonym of *crenata*).
- castanea* Gravenhorst, 1806: 207 (*Omalium*; Type locality: Norimbergae).
- Olivier, 1811: 476 (*Omalium*; characters; Germany).
  - Erichson, 1839a: 620 (*Acidota*; synonym of *crenata*).
  - Erichson, 1840: 861 (*Acidota*; synonym of *crenata*).
  - Kraatz, 1857d: 936 (*Acidota*; synonym of *crenata*).
  - Mulsant and Rey, 1880: 104 (*Acidota*; synonym of *crenata*).

- Ganglbauer, 1895: 717 (*Acidota*; synonym of *crenata*).
- Luze, 1905b: 73 (*Acidota*; synonym of *crenata*).
- Bernhauer and Schubert, 1910: 69 (*Acidota*; synonym of *crenata*).
- Campbell, 1982b: 1010 (*Acidota*; synonym of *crenata*).
- pulchra* Motschulsky, 1857a: 493 (*Acidota*; Type locality: Styrie).
  - Fauvel, 1871a: 115 [= 1872: 89] (*Acidota*; synonym of *crenata*).
  - Bernhauer and Schubert, 1910: 69 (*Acidota*; synonym of *crenata*).
- seriata* LeConte, 1863a: 55 (*Acidota*; Type locality: Lake Superior; [Note: See lectotype designation by Campbell, 1982b]).
  - Fauvel, 1871a: 115 [= 1872: 89] (*Acidota*; synonym of *crenata*).
  - LeConte, 1873: 327 (*Acidota*; synonym of *crenata*).
  - Ganglbauer, 1895: 717 (*Acidota*; synonym of *crenata*).
  - Luze, 1905b: 73 (*Acidota*; synonym of *crenata*).
  - Bernhauer and Schubert, 1910: 69 (*Acidota*; synonym of *crenata*).
  - Campbell, 1982b: 1010 (*Acidota*; lectotype designation; synonym of *crenata*).
- nigra*† Scudder, 1900a: 85 (*Acidota*; variety of *crenata*; pleistocene fossil; Type locality: Scarborough).
- japonica* Watanabe, 1990: 145 (*Acidota*; subspecies of *crenata*; Type locality: Japan: Hokkaido: Mt. Kurodake on Daisetsu Mts.).
- cruentata*** Mannerheim, 1830: 55 (*Acidota*; Type locality: Petropoli).
  - Gyllenhal, 1810: 228 (*Omalius*; [Note: Misidentification: Bernhauer and Schubert, 1910: 69 cited *rufa* Gyllenhal as a synonym of *cruentata* but Gyllenhal did not describe the species as new, he attributed it to Gravenhorst]; characters; Sweden).
  - Mannerheim, 1831: 469 (*Acidota*; Russia).
  - Erichson, 1839a: 621 (*Acidota*; characters; Germany).
  - Heer, 1839: 190 (*Acidota*; characters; Switzerland).
  - Erichson, 1840: 862 (*Acidota*; characters; Germany; Sweden).
  - Redtenbacher, 1849: 749 (*Acidota*; characters; Austria).
  - Fairmaire and Laboulbène, 1856: 634 (*Acidota*; characters; France).
  - Redtenbacher, 1857: 247 (*Acidota*; characters; Austria).
  - Kraatz, 1857d: 937 (*Acidota*; characters; Germany).
  - Fauvel, 1871a: 115 [= 1872: 89] (*Acidota*; characters; France; Scandinavia; Britain; Germany; Switzerland; Austria).
  - Fauvel, 1873b: 118 [= 1873c: 11] (*Acidota*; Russia).
  - Redtenbacher, 1874: 267 (*Acidota*; characters; Austria).
  - J. Sahlberg, 1876: 217 (*Acidota*; Finland).
  - Mulsant and Rey, 1880: 107 (*Acidota*; characters; France).
  - Fowler, 1888: 403 (*Acidota*; characters; Britain).
  - Ganglbauer, 1895: 717 (*Acidota*; characters; north and middle Europe).
  - Luze, 1905b: 74 (*Acidota*; characters; northern and central Europe).
  - Peyerimhoff, 1905: 186 (*Acidota*; notes; Algeria).
  - Sainte-Claire Deville, 1906: 70 (*Philorinum*; Corsica).
  - Reitter, 1909: 185 (*Acidota*; characters; Germany).
  - Bernhauer and Schubert, 1910: 69 (*Acidota*; catalog).
  - Johansen, 1914: 599 (*Acidota*; characters; Denmark).
  - Bernhauer, 1926g: 2 (*Acidota*; Kamchatka region).
  - Portevin, 1929: 439 (*Acidota*; characters; France).
  - Scheerpeltz, 1933: 1061 (*Acidota*; catalog).
  - Scheerpeltz, 1947: 267 (*Acidota*; characters).
  - Palm, 1948: 116 (*Acidota*; characters; Sweden; Denmark; Norway; Finland).
  - Szujewski, 1963a: 32 (*Acidota*; Poland).
  - Horion, 1963: 122 (*Acidota*; Scotland; Sweden; Norway; Finland; Russia; Pyrenees; France; Corsica; Sardinia; Italy; Bosnia; Romania; Slovakia; Czech Republic; Germany; Austria).
  - Lohse, 1964: 58 (*Acidota*; characters; central Europe).
  - Szujewski, 1968a: 712 (*Acidota*; Poland).



- Ashworth, 1972: 214 (*Acidota*; late-glacial subfossil; Britain).
- Pope, 1977: 22 (*Acidota*; Britain).
- Hammond, 1980: 136 (*Acidota*; Ireland).
- Tóth, 1982: 89 (*Acidota*; characters; Hungary).
- Zanetti, 1987: 323 (*Acidota*; characters; Italy).
- Lucht, 1987: 89 (*Acidota*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux; Denmark; Sweden).
- Welch, 1993: 227 (*Acidota*; ovariole number and ovary structure).
- Wittwer, 1993: 248 (*Acidota*; Switzerland).
- Boháč, 1993: 41 (*Acidota*; Slovakia; Czech Republic).
- Sparacio, 1995: 142 (*Acidota*; characters; notes; Sicily).
- Zanetti, 1995: 8 (*Acidota*; Italy).
- Lemdahl and Gustavsson, 1997: 181 (*Acidota*; collected in lateglacial and middle Holocene deposits; Sweden).
- Zanetti and Sabella, 1998: 32 (*Acidota*; notes; Sicily).
- Cibulskis, 1999: 36 (*Acidota*; list; Latvia).
- Owen, 2000: 251 (*Acidota*; pitfall trap collections from underground at roots of trees; Britain).
- Assing, 2001: 75 (*Acidota*; collected from xerothermous site; Germany).
- ▲ **DISTRIBUTION:** Europe, Russia, Algeria.

*ferruginea* Lacordaire, 1835: 477 (*Acidota*; Type locality: Fontainebleau).

- Erichson, 1840: 862 (*Acidota*; characters; Sweden).
- Kraatz, 1857d: 937 (*Acidota*; synonym of *cruentata*).
- Hochhuth, 1872: 169 (*Acidota*; characters; notes; Ukraine).
- Fauvel, 1871a: 115 [= 1872: 89] (*Acidota*; synonym of *cruentata*).
- Fowler, 1888: 404 (*Acidota*; variety of *cruentata*; characters; Britain).
- Ganglbauer, 1895: 717 (*Acidota*; synonym of *cruentata*).
- Luze, 1905b: 74 (*Acidota*; synonym of *cruentata*).
- Bernhauer and Schubert, 1910: 69 (*Acidota*; synonym of *cruentata*).
- Scheerpeltz, 1933: 1062 (*Acidota*; synonym of *cruentata*).

*nigrescens* Fleischer, 1918: 76 (*Acidota*; aberration of *cruentata*; [**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; no locality cited).

- Scheerpeltz, 1933: 1062 (*Acidota*; aberration of *cruentata*).
- Scheerpeltz, 1947: 267 (*Acidota*; aberration of *cruentata*; characters).

*crenulata* Hatch, 1957, see: *quadrata* Zetterstedt, 1838.

*daisetsuzana* Watanabe, 1990: 146 (*Acidota*; Type locality: Japan: Hokkaido: Mt. Kurodake on Daisetsu Mts.).

▲ **DISTRIBUTION:** Japan.

*ferruginea* Lacordaire, 1835, see: *cruentata* Mannerheim, 1830.

*frankenhauseri* Mäklin, 1853, see: *quadrata* Zetterstedt, 1838.

*heydeni* Heer, 1839, see: *Arpedium*.

*hirtella* Heer, 1839, see: *Amphichroum*.

*japonica* Watanabe, 1990, see: *crenata* Fabricius, 1793.

*major* Luze, 1905, see: *quadrata* Zetterstedt, 1838.

*minuta* Luze, 1905b: 76 (*Acidota*; Type locality: Griechenland, Morea: Cumani).

- Bernhauer and Schubert, 1910: 69 (*Acidota*; catalog).
- Scheerpeltz, 1947: 267 (*Acidota*; characters).

▲ **DISTRIBUTION:** Greece.

*montana* Smetana, 1993a: 71 (*Acidota*; Type locality: Taiwan: Nantou Hsien, Nenkaoshan Tenchi Hut, 2895 m).

▲ **DISTRIBUTION:** Taiwan.

*nigra* Scudder, 1900, see: *crenata* Fabricius, 1793.

*nigrescens* Fleischer, 1918 [**Note: Nomen nudum**], see: *cruentata* Mannerheim, 1830.

**nivicola** Smetana, 1993a: 74 (*Acidota*; Type locality: Taiwan: Taichung Hsien Hsuehshan, Hsuehshan Main Peak, 3650 m).

▲ **DISTRIBUTION:** Taiwan.

*patruelis* LeConte, 1863, see: *quadrata* Zetterstedt, 1838.

*pechlaneri* Scheerpeltz, 1947, see: *quadrata* Zetterstedt, 1838.

*pulchra* Motschulsky, 1857, see: *crenata* Fabricius, 1793.

*quadra* Zetterstedt, 1828, see: *quadrata* Zetterstedt, 1838.

**quadrata** Zetterstedt, 1838: 53 (*Omaliium*; replacement name for *quadra*).

- Erichson, 1840: 862 (*Acidota*; synonym of *ferruginea*).
  - Kraatz, 1857d: 937 (*Acidota*; synonym of *cruentata*).
  - Thomson, 1861: 205 (*Acidota*; characters; Scandinavia).
  - Fauvel, 1873b: 118 [= 1873c: 11] (*Acidota*; Lapland).
  - Seidlitz, 1875: 233 (*Acidota*; characters; Baltic region).
  - J. Sahlberg, 1876: 217 (*Acidota*; Finland).
  - Fauvel, 1878d: 229 [= 1878e: 65] (*Acidota*; characters; Alaska; Lake Superior; Lapland).
  - Luze, 1905b: 78 (*Acidota*; characters; Finland; Sweden; Siberia).
  - Bernhauer and Schubert, 1910: 70 (*Acidota*; catalog).
  - Fall, 1926: 145 (*Acidota*; Alaska).
  - Scheerpeltz, 1933: 1062 (*Acidota*; catalog).
  - Scheerpeltz, 1947: 268 (*Acidota*; characters).
  - Palm, 1948: 116 (*Acidota*; characters; Sweden; Norway; Finland).
  - Smetana, 1968: 229 (*Acidota*; Mongolia).
  - Ashworth, 1972: 214 (*Acidota*; late-glacial subfossil; Britain).
  - Smetana 1975c: 160 (*Acidota*; Mongolia).
  - Morgan and Morgan, 1979: 230 (*Acidota*; Postglacial fossils; Wisconsin).
  - Campbell, 1982b: 1021 (*Acidota*; characters; Alberta; British Columbia; Labrador; Manitoba; Northwest Territories; Ontario; Quebec; Yukon Territory; Alaska; Maine; Montana; New Hampshire; Colorado).
  - Miller and Morgan, 1982: 264 (*Acidota*; Postglacial fossils; New York).
  - Zanetti, 1987: 323 (*Acidota*; possibly not in Italy).
  - Downie and Arnett, 1996: 434 (*Acidota*; characters; Canada; USA).
  - Lavoie, Elias, and Payette, 1997: 231 (*Acidota*; Holocene fossil; subarctic Quebec).
  - Ryabukhin, 1999: 28 (*Acidota*; catalog; habitat; distribution; northeastern Russia).
- ▲ **DISTRIBUTION:** Finland, Sweden, Austria, Russia, Mongolia, Canada, USA.

*quadra* Zetterstedt, 1828: 54 (*Omaliium*; [**preoccupied**]; Type locality: Wittangi Lapponiae Tornensis).

— Bernhauer and Schubert, 1910: 70 (*Acidota*; synonym of *quadrata*).

*frankenhauseri* Mäklin, 1853: 194 (*Acidota*; Type locality: interior pars peninsulae Kenai).

— Bernhauer and Schubert, 1910: 70 (*Acidota*; synonym of *quadrata*).

— Campbell, 1982b: 1021 (*Acidota*; synonym of *quadrata*).

*patruelis* LeConte, 1863a: 56 (*Acidota*; Type locality: north side of Lake Superior; [**Note:** See lectotype designation by Campbell, 1982b]).

— Bernhauer and Schubert, 1910: 70 (*Acidota*; synonym of *quadrata*).

— Campbell, 1982b: 1021 (*Acidota*; lectotype designation; synonym of *quadrata*).

*major* Luze, 1905b: 78 (*Acidota*; variety of *quadra*; Type locality: Ostsibirien, Quellgebiet des Irkut).

— Bernhauer and Schubert, 1910: 70 (*Acidota*; synonym of *quadrata*).

— Scheerpeltz, 1933: 1062 (*Acidota*; subspecies of *quadrata*).

— Scheerpeltz, 1947: 269 (*Acidota*; cited as valid species; characters).

— Campbell, 1982b: 1021 (*Acidota*; synonym of *quadrata*).

*pechlaneri* Scheerpeltz, 1947: 263 (*Acidota*; Type locality: Österreich: Gebiet der Silvretta im Jamtal).

— Lohse, 1964: 57 (*Acidota*; characters; Austria).

— Zanetti, 1987: 322 (*Acidota*; characters).

- Lucht, 1987: 89 (*Acidota*; checklist; Austria).
- Lohse, 1987: 135 (*Acidota*; synonym of *quadrata*).

*crenulata* Hatch, 1957: 62 (*Olophrum*; Type locality: B. C.: Waterloo Mine).

- Campbell, 1982b: 1021 (*Acidota*; synonym of *quadrata*).

*rufa* Gravenhorst, 1802, see: *crenata* Fabricius, 1793.

**semisericea** Cameron, 1929a: 152 (*Acidota*; [Note: **Nomen dubium**]; Type locality: Norway: Trondjhem).

- Scheerpeltz, 1933: 1062 (*Acidota*; catalog).
- Scheerpeltz, 1947: 269 (*Acidota*; characters).
- Tikhomirova, 1973a: 140 (*Acidota*; checklist; Norway).

▲ **DISTRIBUTION:** Norway.

*seriata* LeConte, 1863, see: *crenata* Fabricius, 1793.

**subcarinata** Erichson, 1840: 863 (*Acidota*; Type locality: Bostoniae in America septentrionali; [Note: See lectotype designation by Campbell, 1982b]).

- LeConte, 1850: 220 (*Acidota*; Lake Superior).
- Provancher, 1877: 260 (*Acidota*; characters; Quebec).
- Fauvel, 1878d: 228 [= 1878e: 64] (*Acidota*; characters; Michigan; Lake Superior; Massachusetts).
- Bernhauer and Schubert, 1910: 70 (*Acidota*; catalog).
- Blatchley, 1910: 477 (*Acidota*; characters; Indiana).
- Campbell, 1982b: 1015 (*Acidota*; lectotype designation: Boston, Massachusetts; characters; Newfoundland; Ontario; Quebec; Illinois; Indiana; Maine; Maryland; Massachusetts; Michigan; Minnesota; New Hampshire; New Jersey; New York; Ohio; Pennsylvania; Rhode Island; Virginia; Wisconsin).
- Morgan and Morgan, 1985: 1819, 1822 (*Acidota*; middle Holocene fossil; Michigan).
- Dearborn and Donahue, 1994: 14 (*Acidota*; Maine).
- Levesque and Levesque, 1996: 290 (*Acidota*; seasonal abundance; Quebec).
- Downie and Arnett, 1996: 434 (*Acidota*; characters; USA).

▲ **DISTRIBUTION:** Canada, USA.

**sculpturata** Luze, 1905b: 77 (*Acidota*; Type locality: Kaukasus).

- Bernhauer and Schubert, 1910: 70 (*Acidota*; catalog).
- Scheerpeltz, 1947: 267 (*Acidota*; characters).
- Tikhomirova, 1973a: 140 (*Acidota*; checklist; Caucasus).

▲ **DISTRIBUTION:** Caucasus.

*tenuis* LeConte, 1863, see: *Eucnecosum*.

### Altaiodromicus

[1 species; Palaearctic Region]

*Altaiodromicus* Zerche, 1992a: 107 (species included: *schilenkovi*). **TYPE SPECIES:** *Altaiodromicus schilenkovi* Zerche, fixed by original designation and monotypy.

**schilenkovi** Zerche, 1992a: 108 (*Altaiodromicus*; Type locality: Altai, Chr. [Hütte] Korgon, verch. rutsch [Oberlauf des Baches] Mochnatyj, prit. Kumira [Zufluss des Kumir], 1750 m).

▲ **DISTRIBUTION:** Altai region.

### Amphichroum

[14 species; Nearctic and Palaearctic Region]

*Amphichroum* Kraatz, 1857d: 947 (species included: *canaliculatum*, *hirtellum*). **TYPE SPECIES:** *Lathrimaemum canaliculatum* Erichson, fixed by subsequent designation by R. Lucas, 1920: 90.

- Redtenbacher, 1857: 993 (characters).
- Schaum, 1859: 31 (catalog; European species).
- Gredler, 1863: 123 (list of species from Tirol).

- LeConte, 1863: 26 (list of North American species).
- Wencker and Silbermann, 1866: 36 (list of species; collecting notes; France).
- Gemminger and Harold, 1868: 661 (catalog).
- Jacquelin du Val, 1868: 80 (catalog; European species).
- Fauvel, 1871a: 116 [= 1872: 90] (characters).
- Redtenbacher, 1874: 269 (characters; key to Austrian species).
- Fauvel, 1875a:VI [= 1875b: 208] (catalog).
- Fauvel, 1878d: 236 [= 1878e: 72] (key to North American species).
- Mulsant and Rey, 1880: 93 (characters; key to French species).
- Duvivier, 1883: 195 (catalog).
- Seidlitz, 1891: 343 (key to some European species).
- Seidlitz, 1891a: 366 (key to some European species).
- Heyden, Reitter, and Weise, 1891: 119 (list of species of Europe and Caucasus).
- Ganglbauer, 1895: 715 (characters).
- Heyden, Reitter, and Weise, 1906: 134 (list of species of Europe and Caucasus).
- Reitter, 1909: 185 (characters; key to German species).
- Bernhauer and Schubert, 1910: 70 (world catalog; 12 species).
- Petri, 1912: 54 (list of species of Siebenbürgen).
- Leng, 1920: 95 (catalog of North American species).
- Winkler, 1925: 334 (catalog for Palaearctic region).
- Cameron, 1925: 11 (catalog of Indian species).
- Porta, 1926: 27 (characters; key to species of Italy).
- Portevin, 1929: 438 (characters; key to French species).
- Cameron, 1930: 156 (characters; key to species of British India).
- Roubal, 1930: 315 (catalog; Slovakia).
- Scheerpeltz, 1933: 1062 (world catalog supplement).
- Blackwelder, 1952: 50 (type species).
- Scheerpeltz, 1956: 13 (key to European species).
- Hatch, 1957: 49, 54 (characters; key to species of Pacific Northwest).
- Horion, 1963: 123 (list of central European species).
- Székessy, 1963: 21 (characters).
- Lohse, 1964: 58 (characters; key to central European species).
- Moore, 1966: 48, 49 (cited as *Amphichroum*; characters; notes).
- Scheerpeltz, 1968a: 15 (catalog of Austrian species).
- Tikhomirova, 1973a: 140 (checklist of species of USSR).
- Moore and Legner, 1975: 180 (catalog; North America north of Mexico).
- Shibata, 1976: 112 (checklist of species of Japan).
- Burakowski, Mroczkowski, and Stefańska, 1979: 64 (catalog; Poland).
- Moore and Legner, 1979: 176 (characters; notes).
- Tóth, 1982: 77 (cited as *Amphichroum*; characters; habitus; key to species of Hungary).
- Zanetti, 1987: 330 (characters; habitus; key to species of Italy).
- Angelini, 1991: 190 (list of species from high elevations of Calabria, Italy).
- Campbell and Davies, 1991: 90 (checklist of species; Alaska and Canada).
- Zanetti, 1995: 8 (list of species of Italy).
- Newton, Thayer, Ashe, and Chandler, 2000: 338 (3 Nearctic species; notes; characters in key).

*Stachygraphis* Horn, 1883: 285 (species included: *maculata*). **TYPE SPECIES:** *Stachygraphis maculata* Horn, fixed by monotypy.

- Bernhauer and Schubert, 1910: 70 (synonym of *Amphichroum*).
- Blackwelder, 1952: 356 (type species: *maculata*).

*adelaidae* Blackburn, 1892, see: *Austrolophrum*.

**albanicum** Bernhauer, 1936g: 237 (*Amphichroum*; Type locality: Mali Dajtit in Albanien).

▲ **DISTRIBUTION:** Albania.

**altivagans** Cameron, 1941: 143 (*Amphichroum*; Type locality: Kashmir: Khelanmarg, altitude 10,000 feet).

▲ **DISTRIBUTION:** India.

*alutaceum* Casey, 1886, see: *Pelecomalium*.

**anthobioides** Champion, 1925: 104 (*Amphichroum*; Type locality: Burphu, Gori River, E. Kumaon, alt. 11,000 ft.).

- Cameron, 1930: 158 (*Amphichroum*; characters; India).
- Scheerpeltz, 1933: 1062 (*Amphichroum*; catalog).

▲ **DISTRIBUTION:** India.

*australe* Fauvel, 1877, see: *Austrolophrum*.

**canaliculatum** Erichson, 1840: 871 (*Lathrimaeum*; Type locality: Germaniae; Austriae; Hungariae; Syrmiae montes).

- Heer, 1841: 569 (*Omalium*; synonym of *dentipes*).
- Redtenbacher, 1849: 750 (*Lathrimaeum*; characters; Austria).
- Fairmaire and Laboulbène, 1856: 637 (*Lathrimaeum*; synonym of *dentipes*).
- Redtenbacher, 1857: 248 (*Olophrum*; characters; Austria).
- Redtenbacher, 1857: 993 (*Amphichroum*; characters; Austria).
- Kraatz, 1857d: 949 (*Amphichroum*; characters; Germany).
- Fauvel, 1871a: 117 [= 1872: 91] (*Amphichroum*; characters; France; Germany; Switzerland; Italy; Austria).
- Redtenbacher, 1874: 269 (*Amphichroum*; characters; Austria).
- Seidlitz, 1875: 237 (*Amphichroum*; characters; Baltic region).
- Fauvel, 1878d: 240 [= 1878e: 76] (*Amphichroum*; characters; California).
- Mulsant and Rey, 1880: 96 (*Amphichroum*; characters; France).
- Ganglbauer, 1895: 715 (*Amphichroum*; characters; Alps; Carpathians; Germany).
- Reitter, 1909: 185 (*Amphichroum*; characters; Germany).
- Bernhauer and Schubert, 1910: 70 (*Amphichroum*; catalog).
- Portevin, 1929: 439 (*Amphichroum*; characters; France).
- Scheerpeltz, 1933: 1062 (*Acidota*; catalog).
- Blackwelder, 1952: 50 (*Amphichroum*; type species of genus).
- Scheerpeltz, 1956: 15 (*Amphichroum*; characters; Italy).
- Scheerpeltz, 1956: 12, 16 (*Amphichroum*; [**Note:** Misidentified as *albanicum* according to Zanetti, 1987: 333]; characters; notes; Italy).
- Smetana, 1958: 46, 63 (*Amphichroum*; notes).
- Horion, 1963: 123 (*Amphichroum*; Slovakia; Poland; Czechoslovakia; Romania; Bosnia; Macedonia; Albania; Croatia; Austria; Germany; Italy; Switzerland; France).
- Lohse, 1964: 58 (*Amphichroum*; characters; central Europe).
- Scheerpeltz, 1968a: 15 (*Amphichroum*; catalog; Austria).
- Tikhomirova, 1973a: 140 (*Amphichroum*; checklist; USSR).
- Zerche, 1977a: 8 (*Amphichroum*; Germany).
- Heger and Uhlig, 1981: 81 (*Amphichroum*; habitat notes; Switzerland).
- Tóth, 1982: 78 (*Amphichroum*; characters; Hungary).
- Heger and Uhlig, 1982: 96 (*Amphichroum*; Switzerland).
- Zanetti, 1987: 333 (*Amphichroum*; characters; Italy).
- Lucht, 1987: 89 (*Amphichroum*; Germany; Poland; Czechoslovakia; Austria; Switzerland; France).
- K. Koch, 1989: 232 (*Amphichroum*; habitat).
- Angelini, 1991: 190 (*Amphichroum*; Italy).
- Drugmand and Coulon, 1993: 238 (*Amphichroum*; collecting notes; Luxembourg).
- Boháč, 1993: 41 (*Amphichroum*; Czech Republic; Slovakia).
- Gerardi and Zanetti, 1995: 143 (*Amphichroum*; collecting notes; Italy).
- Ádám, 1995: 41 (*Amphichroum*; Hungary).
- Zanetti, 1995: 8 (*Amphichroum*; Italy).
- Böhme, 1996: 46 (*Amphichroum*; humus collection; Austria).
- Pašnik, 1998: 69 (*Amphichroum*; habitat; Poland).
- Herman, 2001: 19 (*Amphichroum*; discussion; nomen protectum).

▲ **DISTRIBUTION:** Europe.

*tenuipes* Heer, 1839: 182 (*Omalium*; Type locality: Matt).

- Heer, 1834: 76 (*Omalium*; subgenus *Omalium*; [Note: Nomen nudum, cited without characters]; elevational listing).
- Kraatz, 1857d: 949 (*Amphichroum*; synonym of *canaliculatum*).
- Mulsant and Rey, 1880: 97 (*Amphichroum*; synonym of *canaliculatum*).
- Ganglbauer, 1895: 715 (*Amphichroum*; synonym of *canaliculatum*).
- Bernhauer and Schubert, 1910: 70 (*Amphichroum*; synonym of *canaliculatum*).

*dentipes* Heer, 1839: 181 (*Omalium*; [Note: This name is older than *canaliculatum*]; Type locality: Genf; Vallorbes).

- Fairmaire and Laboulbène, 1856: 637 (*Lathrimaeum*; characters; France).
- Kraatz, 1857d: 949 (*Amphichroum*; synonym of *canaliculatum*).
- Mulsant and Rey, 1880: 97 (*Amphichroum*; synonym of *canaliculatum*).
- Ganglbauer, 1895: 715 (*Amphichroum*; synonym of *canaliculatum*).
- Bernhauer and Schubert, 1910: 70 (*Amphichroum*; synonym of *canaliculatum*).
- Herman, 2001: 19 (*Amphichroum*; discussion; nomen oblitum).

*crassicorne* Casey, 1886, see: *Pelecomalium*.

*cribriceps* Fauvel, 1878, see: *Austrolophrum*.

*debile* Sharp, 1889, see: *Orochares*.

*dentipes* Heer, 1839, see: *canaliculatum* Erichson, 1840.

*flavicorne* Casey, 1886, see: *floribundum* LeConte, 1863.

**floribundum** LeConte, 1863a: 56 (*Amphichroum*; Type locality: San Francisco, California).

- Fauvel, 1878d: 237 [= 1878e: 73] (*Amphichroum*; characters; British Columbia; California).
- Bernhauer and Schubert, 1910: 70 (*Amphichroum*; catalog).
- Scheerpeltz, 1933: 1062 (*Acidota*; catalog).
- Hatch, 1957: 55 (*Amphichroum*; characters; British Columbia).

▲ **DISTRIBUTION:** Canada, USA.

*flavicorne* Casey, 1886: 235 (*Amphichroum*; Type locality: California: San Francisco; Lake Co.).

- Bernhauer and Schubert, 1910: 70 (*Amphichroum*; catalog).
- Scheerpeltz, 1933: 1062 (*Amphichroum*; synonym of *floribundum*).

**hirtellum** Heer, 1839: 191 (*Acidota*; Type locality: Randen; Klausen; Mühlebachalp).

- Fairmaire and Laboulbène, 1856: 637 (*Lathrimaeum*; characters; France).
- Redtenbacher, 1857: 993 (*Amphichroum*; characters; Austria).
- Kraatz, 1857d: 950 (*Amphichroum*; characters; Germany).
- Fauvel, 1871a: 117 [= 1872: 91] (*Amphichroum*; characters; France; Switzerland; Germany; Austria).
- Redtenbacher, 1874: 269 (*Amphichroum*; characters; Austria).
- Seidlitz, 1875: 237 (*Amphichroum*; characters; Baltic region).
- Mulsant and Rey, 1880: 99 (*Amphichroum*; characters; France).
- Ganglbauer, 1895: 715 (*Amphichroum*; characters; Alps).
- Reitter, 1909: 185 (*Amphichroum*; characters; Germany).
- Bernhauer and Schubert, 1910: 70 (*Amphichroum*; catalog).
- Portevin, 1929: 439 (*Amphichroum*; characters; France).
- Scheerpeltz, 1933: 1062 (*Acidota*; catalog).
- Scheerpeltz, 1956: 15 (*Amphichroum*; characters; Italy).
- Horion, 1963: 124 (*Amphichroum*; France; Italy; Switzerland; Austria; Romania; Germany).
- Lohse, 1964: 58 (*Amphichroum*; characters; central Europe).
- Tóth, 1982: 78 (*Amphichroum*; characters).
- Zanetti, 1987: 335 (*Amphichroum*; characters; Italy).
- Lucht, 1987: 89 (*Amphichroum*; checklist; Germany; Austria; Switzerland).
- Zanetti, 1995: 8 (*Amphichroum*; Italy).

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

*immaculatum* Hatch, 1957, see: *maculatum* Horn, 1883.

*laevicolle* LeConte, 1866, see: *Pelecomalium*.

*maculatum* LeConte, 1884, see: *maculatum* Horn, 1883.

**maculatum** Horn, 1883: 285, pl. IX, fig. 7 (*Stachygraphis*; Type locality: California).

— Bernhauer and Schubert, 1910: 70 (*Amphichroum*; catalog).

— Hatch, 1957: 54 (*Amphichroum*; characters; Washington; Oregon).

▲ **DISTRIBUTION:** USA.

*maculatum* LeConte, 1884: 3 (*Amphichroum*; [**preoccupied**]; Type locality: high Sierras of California, Big Trees, Calaveras Co., western Nevada).

— Bernhauer and Schubert, 1910: 70 (*Amphichroum*; synonym of *maculatum*).

*immaculatum* Hatch, 1957: 54 (*Amphichroum*; subspecies of *maculatum*; Type locality: Oregon: Wapinitia Cut-off. Also cited from British Columbia and Washington).

**maculicolle** Mannerheim, 1843b: 234 (*Arpedium*; Type locality: insula Sitkha).

— Bernhauer and Schubert, 1910: 70 (*Amphichroum*; catalog).

▲ **DISTRIBUTION:** USA.

**miaoershanum** Watanabe, 1999: 260 (*Amphichroum*; Type locality: China: Guangxi Province: Xing'an Xian, near Tieshan Ping, Mt. Miao'er Shan).

▲ **DISTRIBUTION:** China.

**milkensis** Coiffait, 1984e: 385 (*Amphichroum*; Type locality: Milke Himal, 2000 m).

▲ **DISTRIBUTION:** Nepal.

**monticola** Cameron, 1928c: 558 (*Amphichroum*; Type locality: Tibet: Tropde, 11,000 feet).

— Cameron, 1930: 157 (*Amphichroum*; characters; Tibet).

— Scheerpeltz, 1933: 1062 (*Acidota*; catalog).

— Coiffait, 1978b: 114 (*Amphichroum*; Bhutan).

▲ **DISTRIBUTION:** China, Bhutan.

*opaculum* Fauvel, 1878, see: *Pelecomalium*.

*pilosellum* Casey, 1886, see: *Pelecomalium*.

**pindarensis** Champion, 1920: 243 (*Amphichroum*; Type locality: Sunderdhunga and Pindar Valley, alt. 8000–12,000 ft.).

— Cameron, 1928c: 558 (*Amphichroum*; Tibet).

— Cameron, 1930: 157 (*Amphichroum*; characters; Tibet).

— Scheerpeltz, 1933: 1062 (*Acidota*; catalog).

— Coiffait, 1978b: 114 (*Amphichroum*; Bhutan).

▲ **DISTRIBUTION:** Himalaya region, China, Bhutan.

*puberulum* Fauvel, 1878, see: *Pelecomalium*.

**queinneci** Coiffait, 1984e: 384 (*Amphichroum*; Type locality: Nepal: Everest, col de Salpa, 3400 m).

▲ **DISTRIBUTION:** Nepal.

**reticulatum** Coiffait, 1978b: 149 (*Amphichroum*; Type locality: Sampa-Kotoka, 1400–2600 m).

▲ **DISTRIBUTION:** Bhutan.

*scutatum* Fauvel, 1878, see: *Pelecomalium*.

*sparsum* Fauvel, 1878, see: *Pelecomalium*.

*spinipes* Fauvel, 1878, see: *Leaskia*.

*tenuipes* Heer, 1839, see: *canaliculatum* Erichson, 1840.

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

**Anthobioides**

[1 species; Nearctic Region]

*Anthobioides* Campbell, 1987: 1027 (species included: *pubescens*; phylogenetic discussion).**TYPE SPECIES:** *Anthobioides pubescens* Campbell, fixed by original designation and monotypy.

— Newton, Thayer, Ashe, and Chandler, 2000: 339 (1 Nearctic species; notes; characters in key).

**pubescens** Campbell, 1987: 1031 (*Anthobioides*; Type locality: Washington Olympic N. P., Hurricane Ridge Rd., 4000 feet).▲ **DISTRIBUTION:** USA.**Anthobium**

[51 species (5 doubtful); Nearctic and Palaearctic Regions]

*Anthobium* Leach, 1819: 175 (species included: *melanocephalum*; [**Note:** The *Anthobium* of Mannerheim, 1830 is a misidentification of *Omalium*. Mannerheim did not describe the genus as new, he attributed it to Leach]). **TYPE SPECIES:** *Omalium atrocephalum* Gyllenhal (= *Silpha melanocephalum* sensu Marsham), fixed by application of Article 70.3 (see Herman, 2001).

— Curtis, 1829: 28, 245 (catalog; Britain).

— Stephens, 1829a: 25 (catalog; Britain).

— Stephens, 1829: 295 (catalog; Britain).

— Dejean, 1833: 68 (list of species).

— Stephens, 1834: 335 (characters; habitat; [**Note:** The species included by Stephens now are in several genera including *Anthobium*, *Proteinus*, *Eusphalerum*, *Omalium*, *Acrolocha*, and *Deliphrum*]).

— Lacordaire, 1835: 468 (characters).

— Westwood, 1838a: 18 (characters; type species).

— Stephens, 1839: 422 (characters).

— Redtenbacher, 1849: 753 (characters).

— Lacordaire, 1854: 145 (characters; notes; list of species).

— Jacquelin du Val, 1857: 77 (characters).

— Kraatz, 1857d: 1005 (characters).

— Thomson, 1858: 38 (characters).

— G. Waterhouse, 1858: 32 (catalog of British species).

— Thomson, 1859: 50 (characters; type species: *minutum*).

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

— Thomson, 1861: 202 (characters).

— Gredler, 1863: 125 (list of species from Tirol).

— Fauvel, 1867a: 45 [= 1868: 50] (characters).

— Jacquelin du Val, 1868: 82 (catalog; European species).

— Provancher, 1877: 261 (characters; [**Note:** Cited with one species, *protectum* LeConte; I can find no such species name in the family]).

— Fauvel, 1897d: 248 (catalog of species of Barbary).

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

— Roubal, 1930: 302 (catalog; Slovakia).

— Tottenham, 1939d: 225 (*Anthobium* misidentified; species in *Eusphalerum*; species of *Anthobium* in *Lathrimaeum*).

— Blackwelder, 1944: 101 (checklist of species from Mexico, Central and South America, and the West Indies).

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

— Tottenham, 1949: 357, 407 (type species: *atrocephalum* Gyllenhal = *melanocephalum* Marsham; list of British species; this name must be used for the species formerly listed in *Lathrimaeum*).— Blackwelder, 1952: 55 (type species: *melanocephalum* Fabricius; notes concerning identification of which species of *melanocephalum* was intended by Leach).

— Tottenham, 1954: 30 (characters; key to British species).



- Hatch, 1957: 50, 64 (characters; key to species of Pacific Northwest).
- Lohse, 1964: 52 (synonym of *Lathrimaeum*; recommended that the name though valid be suppressed to avoid confusion).
- Moore, 1966: 48, 55 (characters; notes).
- Steel, 1970a: 18 (larval characters; biological notes).
- Moore and Legner, 1975: 181 (catalog; North America north of Mexico).
- Shibata, 1976: 113 (checklist of species of Japan).
- Pope, 1977: 22 (list of British species).
- Topp, 1978: 308 (larval characters).
- Burakowski, Mroczkowski, and Stefańska, 1979: 54 (catalog; Poland).
- Moore and Legner, 1979: 177 (characters; notes).
- Muona, 1979: 18 (list of Scandinavian species).
- Spahr, 1981: 93 (references to specimens from amber and copal).
- Ádám, 1985: 251 (list of species from southeast Hungary).
- Campbell and Davies, 1991: 91 (checklist of species; Alaska and Canada).
- Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
- Welch, 1993: 227 (ovariole number and ovary structure).
- Boháč, 1993: 41 (list of species of Czech Republic and Slovakia).
- M. Hansen, 1996: 95 (list of Danish species).
- Assing, Frisch, Kahlen, et al., 1998: 125 (note).
- Newton, Thayer, Ashe, and Chandler, 2000: 339 (12 Nearctic species; notes; characters in key).
- Herman, 2001: 6 (type species; discussion; fixed by application of Article 70.3).

*Lathrimaeum* Erichson, 1839a: 624 (species included: *atrocephalum*, *fusculum*). **TYPE SPECIES:** *Omalium atrocephalum* Gyllenhal, fixed by subsequent designation by Westwood, 1840: 156.

- Heer, 1839: 187 (characters).
- Stephens, 1839: 422 (characters).
- Erichson, 1840: 868 (characters).
- Redtenbacher, 1849: 749 (characters).
- Schaum, 1852: 30 (list of species; Europe).
- Lacordaire, 1854: 141 (characters; notes; list of species).
- Fairmaire and Laboulbène, 1856: 636 (characters).
- Jacquelin du Val, 1857: 75 (characters).
- Redtenbacher, 1857: 248 (characters).
- Kraatz, 1857d: 943 (characters).
- Thomson, 1858: 38 (characters).
- G. Waterhouse, 1858: 31 (catalog of British species).
- Thomson, 1859: 49 (characters; type species: *atrocephalum*).
- Schaum, 1859: 31 (catalog; European species).
- LeConte, 1861a: 70 (characters).
- Thomson, 1861: 195 (characters).
- LeConte, 1863: 26 (list of North American species).
- Wencker and Silbermann, 1866: 36 (list of species; collecting notes; France).
- Gemminger and Harold, 1868: 661 (catalog).
- Jacquelin du Val, 1868: 81 (catalog; European species).
- Fauvel, 1871a: 118 [= 1872: 92] (characters).
- Sharp, 1871d: 14 (list of British species).
- Redtenbacher, 1874: 268 (characters; key to Austrian species).
- Fauvel, 1875a: VI [= 1875b: 208] (catalog).
- Provancher, 1877: 260 (characters).
- Fauvel, 1878d: 233 [= 1878e: 69] (key to North American species).
- Mulsant and Rey, 1880: 119 (characters; key to French species).
- Duvivier, 1883: 195 (catalog).
- Fowler, 1888: 405 (notes; key to British species).
- Casey, 1894: 416 (notes; key to North American species).
- Heyden, 1893: 48 (list of species of Siberian region).

- Seidlitz, 1891: 344 (key to some European species).
  - Seidlitz, 1891a: 367 (key to some European species).
  - Heyden, Reitter, and Weise, 1891: 119 (list of species of Europe and Caucasus).
  - Ganglbauer, 1895: 721 (characters; key to middle European species).
  - Luze, 1905a: 53 (characters; revision of and key to Palaearctic species).
  - Heyden, Reitter, and Weise, 1906: 133 (list of species of Europe and Caucasus).
  - Sainte-Claire Deville, 1907: 42 (characters; key to and annotated list of species of Seine Basin, France).
  - Reitter, 1909: 187 (characters; key to German species).
  - Bernhauer and Schubert, 1910: 64 (world catalog; 18 species).
  - Petri, 1912: 54 (list of species of Siebenbürgen).
  - Leng, 1920: 94 (catalog of North American species).
  - Winkler, 1925: 332 (catalog for Palaearctic region).
  - Cameron, 1925: 104 (catalog of Indian species).
  - Porta, 1926: 25 (characters; key to species of Italy).
  - Portevin, 1929: 441 (characters; key to French species).
  - Cameron, 1930: 151 (characters; key to species of British India).
  - Roubal, 1930: 312 (catalog; Slovakia).
  - Joy, 1932: 96 (key to British species).
  - Scheerpeltz, 1933: 1055 (world catalog supplement).
  - Scheerpeltz, 1937b: 187 (list of Bulgarian species).
  - Kloet and Hincks, 1945: 161 (synonym of *Anthobium*).
  - Palm, 1948: 99 (characters; key to species of Sweden).
  - Tottenham, 1949: 357 (synonym of *Anthobium*; type species: *atrocephalum*).
  - Blackwelder, 1952: 209 (type species: *atrocephalum*).
  - Kocher, 1958: 194 (checklist of species; Morocco).
  - Scheerpeltz, 1961c: 72–74 (notes; key to Palaearctic species; type species: *melanocephalum*).
  - Ferreira, 1962a: 9 (list of Portuguese species).
  - Horion, 1963: 105 (list of central European species).
  - Székessy, 1963: 19 (characters).
  - Lohse, 1964: 52 (cited as valid genus; characters; key to central European species).
  - Pototskaia, 1967: 20 (larval characters).
  - Kasule, 1968: 133, 134 (larval characters).
  - Scheerpeltz, 1968a: 13 (catalog of Austrian species).
  - Tikhomirova, 1973a: 139 (checklist of species of USSR).
  - Pope, 1977: 22 (synonym of *Anthobium*).
  - Coiffait, 1978f: 274 (key to species of France).
  - Uhlig, 1979: 242 (some species collected in Germany).
  - Uhlig, Vogel, and Sieber, 1980: 240 (some species collected in Germany).
  - Uhlig and Vogler, 1981: 86 (list of some species collected in Germany; habitat and collecting notes).
  - Tóth, 1982: 78 (characters; habitus; key to species of Hungary).
  - Segers, 1986: 21 (checklist of species; Belgium).
  - Zanetti, 1987: 290 (characters; habitus; key to species of Italy).
  - Lohse and Lucht, 1989: 126 (notes).
  - Watanabe, 1990: 121 (characters; species of Japan).
  - Angelini, 1991: 191 (list of species from high elevations of Calabria, Italy).
  - Detner and Reissenweber, 1991 (defensive secretions: chemistry and systematics).
  - Boháč, 1993: 41 (synonym of *Anthobium*).
  - Zanetti, 1995: 8 (list of species of Italy).
  - M. Hansen, 1996: 95 (synonym of *Anthobium*).
  - Assing, Frisch, Kahlen, et al., 1998: 125 (synonym of *Anthobium*).
- Prionothorax* Luze, 1905a: 68 (subgenus of *Lathrimaenum*; species included: *reflexum*).
- TYPE SPECIES:** *Lathrimaenum reflexum* Reitter, fixed by monotypy.
- Bernhauer and Schubert, 1910: 64 (subgenus of *Lathrimaenum*).
  - Blackwelder, 1952: 321 (type species: *reflexum*).

*Eudeliphrum* Champion, 1920: 244 (species included: *gracilipalpe*). **TYPE SPECIES:**  
*Eudeliphrum gracilipalpe* Champion, fixed by monotypy.

- Cameron, 1925: 12 (catalog of Indian species).
- Cameron, 1930: 151 (synonym of *Lathrimaeum*).
- Scheerpeltz, 1933: 1055 (synonym of *Lathrimaeum*).
- Blackwelder, 1952: 155 (type species: *gracilipalpe*).

**abantense** Fagel, 1968: 121 (*Lathrimaeum*; Type locality: Anatolie occidentale; dans des détrit-  
tus de cure sur les berges de l'Abant Gölü, 1450 m).

▲ **DISTRIBUTION:** Turkey.

*adultum* Kiesenwetter, 1851, see: *Eusphalerum*.

*adustum* Kiesenwetter, 1851, see: *Eusphalerum*.

**aequicolle** Casey, 1894: 419 (*Deliphrum*; Type locality: California: Lake Tahoe).

- Bernhauer and Schubert, 1910: 63 (*Deliphrum*; catalog).
- Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** USA.

*aetolicum* Kraatz, 1858, see: *Eusphalerum*.

*africanum* Roubal, 1915, see: *Eusphalerum*.

*albipilis* Fauvel, 1900, see: *Eusphalerum*.

*alpestre* Motschulsky, 1857, see: *Eusphalerum*.

**altivagans** Cameron, 1941: 59 (*Lathrimaeum*; subgenus *Prionothorax*; Type locality: Kashmir;  
Gulmarg, alt. 8000–10,000 feet).

▲ **DISTRIBUTION:** India.

*alutaceum* Scheerpeltz, 1956, see: *Eusphalerum*.

*anale* Erichson, 1840, see: *Eusphalerum*.

*analogicum* Roubal, 1915, see: *Eusphalerum*.

**anatolicum** Fagel, 1968: 118 (*Lathrimaeum*; Type locality: Antolie occidentale: Abant Dagh,  
à quelques kilomètres au Sud du lac d'Abant ou Abant Gölü, 1500 m).

- Bordoni, 1986c: 44 (*Lathrimaeum*; valid species; characters).

▲ **DISTRIBUTION:** Turkey.

*andicola* Fauvel, 1867, see: *Xenanthobium*.

*angulatum* Luze, 1911, see: *Eusphalerum*.

*angustum* Kiesenwetter, 1850, see: *Eusphalerum*.

*apenninum* C. Koch, 1938, see: *Eusphalerum*.

*assimile* Stephens, 1834, see: *unicolor* Marsham, 1802.

*atriceps* Motschulsky, 1860, see: *Hapalaraea*.

*atriventre* Casey, 1894, see: *Eusphalerum*.

**atrocephalum** Gyllenhal, 1827: 463 (*Omalium*; Type locality: Sparrsätra Vestrogothiae).

- Marsham, 1802: 127 (*Silpha*; [Note: Misidentification: Bernhauer and Schubert, 1910: 64 and Erichson, 1840: 870 cited *melanocephalum* Marsham as a synonym of *atrocephalum* Gyllenhal; Marsham did not describe the species, he attributed it to Panzer who attributed it to Illiger. Tottenham, 1949: 357 cited this use of *melanocephalum* Marsham as a misidentification of *atrocephalum* and that misidentification as the type species of *Anthobium*. Marsham's use of *melanocephala* is an unavailable name]; characters; Britain).
- Curtis, 1829: 28 (*Anthobium*; catalog; Britain).
- Stephens, 1834: 342 (*Anthobium*; characters; England).
- Lacordaire, 1835: 486 (*Omalium*; characters; France).
- Erichson, 1839a: 625 (*Lathrimaeum*; characters; Germany).
- Stephens, 1839: 426 (*Lathrimaeum*; characters; England).
- Erichson, 1840: 870 (*Lathrimaeum*; characters; Germany; Sweden).

- Heer, 1841: 571 (*Lathrimaeum*; notes).
- Redtenbacher, 1849: 829 (*Lathrimaeum*; characters; Austria).
- Hardy, 1851: 57 (*Lathrimaeum*; notes; England).
- Fairmaire and Laboulbène, 1856: 636 (*Lathrimaeum*; characters; France).
- Redtenbacher, 1857: 248 (*Olophrum*; characters; Austria).
- Kraatz, 1857d: 946 (*Lathrimaeum*; characters; Germany).
- Thomson, 1859: 49 (type species of *Lathrimaeum*).
- Thomson, 1861: 195 (*Lathrimaeum*; characters; Scandinavia).
- Hochhuth, 1862: 103 (*Lathrimaeum*; Russia).
- Fauvel, 1871a: 120 [= 1872: 94] (*Lathrimaeum*; characters; France; Scandinavia; Britain; Germany; Austria; Russia; Algeria).
- Fauvel, 1874: 323 [= 1874b: 29] (*Lathrimaeum*; Japan).
- Redtenbacher, 1874: 269 (*Lathrimaeum*; characters; Austria).
- Seidlitz, 1875: 239 (*Lathrimaeum*; characters; Baltic region).
- J. Sahlberg, 1876: 213 (*Lathrimaeum*; Finland).
- Mulsant and Rey, 1880: 128 (*Lathrimaeum*; characters; France).
- Fowler, 1888: 405 (*Lathrimaeum*; characters; Britain).
- Ganglbauer, 1895: 722 (*Lathrimaeum*; characters; north and middle Europe; Mediterranean region; Japan; California).
- Fauvel, 1902b: 56 (*Lathrimaeum*; Algeria).
- Luze, 1905a: 63 (*Lathrimaeum*; characters; central and northern Europe; Mediterranean Sea; Japan; Caucasus; Asia Minor; California).
- Reitter, 1909: 188 (*Lathrimaeum*; characters; Germany).
- Bernhauer and Schubert, 1910: 64 (*Lathrimaeum*; catalog).
- Johansen, 1914: 595 (*Lathrimaeum*; characters; Denmark).
- Eichelbaum, 1914: 27, 94 (*Lathrimaeum*; abdominal segmentation; apical segments).
- Portevin, 1929: 441 (*Lathrimaeum*; characters; France).
- Scheerpeltz, 1933: 1055 (*Lathrimaeum*; catalog).
- Paulian, 1941: 150 (*Lathrimaeum*; larval characters; France).
- Scheerpeltz and Höfler, 1948: 153 (*Lathrimaeum*; characters; fungus inhabitant).
- Palm, 1948: 102 (*Lathrimaeum*; characters; Sweden; Denmark; Norway; Finland).
- Scheerpeltz, 1961c: 82 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Europe; Mediterranean region; Turkey; Caucasus; Siberia; Japan).
- Scheerpeltz, 1961d: 117 (*Lathrimaeum*; Italy).
- Scheerpeltz, 1963a: 415 (*Lathrimaeum*; Greece).
- Horion, 1963: 107 (*Lathrimaeum*; Scotland; Norway; Sweden; Finland; Russia; Pyrenees; Italy; Dalmatia; Bosnia; Serbia; Italy; Corsica; Sicily; Sardinia; Germany; Austria).
- Lohse, 1964: 52 (*Lathrimaeum*; characters; central Europe).
- Smetana, 1964d: 54 (*Lathrimaeum*; Czechoslovakia).
- Moore, 1966: 55 (*Anthobium*).
- Pototskaia, 1967: 20 (*Lathrimaeum*; larval characters).
- Szujewski, 1968a: 712 (*Lathrimaeum*; Poland).
- Steel, 1970a: 18 (*Anthobium*; biological notes).
- Pope, 1977: 22 (*Anthobium*; Britain).
- Coiffait, 1978f: 274 (*Lathrimaeum*; characters; France).
- Topp, 1979: 18 (*Lathrimaeum*; development; diapause).
- Grigo and Topp, 1980: 22 (*Lathrimaeum*; influence of temperature and photoperiod on oxygen consumption in diapause and non-diapause).
- Hammond, 1980: 135 (*Anthobium*; unconfirmed in Ireland).
- Tóth, 1982: 81 (*Lathrimaeum*; characters; Hungary).
- Zanetti, 1984: 76 (*Lathrimaeum*; Bulgaria).
- Ádám, 1987: 137 (*Anthobium*; collecting notes; Hungary).
- Zanetti, 1987: 295 (*Lathrimaeum*; characters; Italy).
- Lucht, 1987: 88 (*Lathrimaeum*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux; Denmark; Sweden).

- Dettner and Reissenweber, 1991 (*Lathrimaeum*; defensive secretions: chemistry and systematics).
- Janák and Vysoky, 1992: 134 (*Anthobium*; collected with *Formica polyctena*; Bohemia).
- Welch, 1993: 227 (*Anthobium*; ovariole number and ovary structure).
- Boháč, 1993: 41 (*Anthobium*; Slovakia; Czech Republic).
- Zanetti, 1995: 8 (*Lathrimaeum*; Italy).
- Owen, 1999b: 61 (*Anthobium*; captured underground at roots of old trees; Britain).
- Zanetti and Sabella, 1998: 31 (*Lathrimaeum*; Sicily).
- Cibulskis, 1999: 35 (*Anthobium*; list; Latvia).
- Owen, 2000: 251 (*Anthobium*; pitfall trap collections from underground at roots of trees; Britain).
- Assing, 2001: 75 (*Anthobium*; collected from xerothermous site; Germany).
- ▲ **DISTRIBUTION:** Algeria, Europe, Russia, Turkey, Japan, USA.
- ruficolle* Stephens, 1834: 340 (*Anthobium*; Type locality: Not cited, presumably Britain).
  - Stephens, 1839: 425 (*Anthobium*; characters; England).
  - G. Waterhouse, 1858: 31 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Ganglbauer, 1895: 722 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Luze, 1905a: 64 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Bernhauer and Schubert, 1910: 64 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Scheerpeltz, 1961c: 82 (*Lathrimaeum*; synonym of *atrocephalum*).
- longipenne* Stephens, 1834: 342 (*Anthobium*; Type locality: Norfolk; Suffolk; near London).
  - Stephens, 1839: 426 (*Lathrimaeum*; characters; England).
  - Hardy, 1851: 58 (*Lathrimaeum*; synonym of *atrocephalum*).
- cicatrix* Mulsant and Rey, 1880: 130 (*Lathrimaeum*; Type locality: Hautes-Pyrénées).
  - Ganglbauer, 1895: 722 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Luze, 1905a: 64 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Bernhauer and Schubert, 1910: 64 (*Lathrimaeum*; synonym of *atrocephalum*).
- fauveli* Pic, 1893: 88 (*Lathrimaeum*; variety of *atrocephalum*; Type locality: Montagnes de Batna).
  - Bernhauer and Schubert, 1910: 64 (*Lathrimaeum*; synonym of *atrocephalum*).
- concolor* Delahon, 1914: 621 (*Lathrimaeum*; aberration of *atrocephalum*; [**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; locality cited: Mark Brandenburg).
  - Scheerpeltz, 1933: 1055 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Tóth, 1982: 81 (*Lathrimaeum*; aberration of *atrocephalum*; characters; Hungary).
- sardoum* Scheerpeltz, 1961c: 84, 92 (*Lathrimaeum*; subgenus *Lathrimaeum*; Type locality: Gebiete des Monte Genargentu auf Sardinien).
  - Coiffait, 1970e: 64 (*Lathrimaeum*; Cyprus).
  - Zanetti, 1986: 96 (*Lathrimaeum*; subspecies of *atrocephalum*).
  - Zanetti, 1987: 295 (*Lathrimaeum*; subspecies of *atrocephalum*; characters; Italy).
  - Zanetti, 1995: 8 (*Lathrimaeum*; subspecies of *atrocephalum*; Italy).
- aucupariae** Gistel, 1857: 4 (*Anthobium*; [**Note: Nomen dubium**]; Type locality: Styria).
  - ▲ **DISTRIBUTION:** Austria.
- aucupariae* Kiesenwetter, 1866, see: *Eusphalerum*.
- auliense* Bernhauer, 1913, see: *Eusphalerum*.
- aurifluum* Fauvel, 1878, see: *Eusphalerum*.
- bargaglii* Luze, 1910, see: *Eusphalerum*.
- baudii** Kraatz, 1870c: 402 (*Lathrimaeum*; Type locality: Not cited).
  - Fauvel, 1871a: 120 [= 1872: 94] (*Lathrimaeum*; synonym of *atrocephalum*).
  - Ganglbauer, 1895: 722 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Luze, 1905a: 64 (*Lathrimaeum*; synonym of *atrocephalum*).
  - Bernhauer and Schubert, 1910: 64 (*Lathrimaeum*; synonym of *atrocephalum*).

- Scheerpeltz, 1961c: 82 (*Lathrimaeum*; synonym of *atrocephalum*).
- Zanetti, 1987: 297 (*Anthobium*; cited as an incorrect synonym of *atrocephalum* and as though valid).
- Assing and Wunderle, 2001: 36 (*Anthobium*; cited as valid; Cyprus).

▲ **DISTRIBUTION:** Cyprus.

*baudii* Fiori, 1894, see: *Eusphalerum*.

*bigliani* Doderò, 1922, see: *Eusphalerum*.

*birmanum* Scheerpeltz, 1965, see: *Eusphalerum*.

*bivittatum* Eppelsheim, 1887, see: *Eusphalerum*.

*bolivari* C. Koch, 1940, see: *Eusphalerum*.

*bonnelli* Hatch, 1944, see: *Eusphalerum*.

*brachiale* Fauvel, 1878, see: *Eusphalerum*.

*brevipenne* Luze, 1910, see: *Philorinum*.

**brunneum** Stephens, 1834: 340 (*Anthobium*; [**Note: Nomen dubium**]; Type locality: London).

- Stephens, 1839: 425 (*Anthobium*; characters; England).

▲ **DISTRIBUTION:** England.

**cachemicum** Coiffait, 1982: 150 (*Lathrimaeum*; Type locality: Inde: Cachemire, Zagipal, près Pahalgam, 3500–3600 m).

▲ **DISTRIBUTION:** India.

*californicum* Fauvel, 1878, see: *Eusphalerum*.

*canaliculatum* Erichson, 1840, see: *Amphichroum*.

*cantabricum* C. Koch, 1940, see: *Eusphalerum*.

**carpophagum** Gistel, 1857: 40 (*Anthobium*; [**Note: Nomen dubium**]; Type locality: Deutschland).

▲ **DISTRIBUTION:** Germany.

*caucasicum* Bernhauer, 1908, see: *Eusphalerum*.

**cavicrus** Champion, 1925: 102 (*Lathrimaeum*; Type locality: Siahidevi, W. Almora, Kumaon, alt. 6000 ft.).

- Cameron, 1930: 153 (*Lathrimaeum*; characters; India).
- Scheerpeltz, 1933: 1055 (*Lathrimaeum*; catalog).
- Scheerpeltz, 1961c: 79 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; India).

▲ **DISTRIBUTION:** India.

*celsum* Luze, 1910, see: *Eusphalerum*.

*cerrutii* Bernhauer, 1940, see: *Eusphalerum*.

*chinense* Bernhauer, 1938, see: *Eusphalerum*.

*cicatrix* Mulsant and Rey, 1880, see: *atrocephalum* Gyllenhal, 1827.

*cincticolle* Chevrolat, 1860, see: *Eusphalerum*.

**clarkae** Hatch, 1957: 65 (*Anthobium*; Type locality: B. C. [British Columbia]: Terrace).

- Moore, 1966: 55 (*Anthobium*; cited as *clarki*).

▲ **DISTRIBUTION:** Canada.

*clavipes* Scriba, 1868, see: *Eusphalerum*.

*collare* Crotch, 1870, see: *Eusphalerum*.

**collare** Coiffait, 1978f: 273 (*Lathrimaeum*; [**Note: Preoccupied as a secondary homonym of *Eusphalerum collare* (Crotch)**]; Type locality: Ariège, Salau, Cirque d'Anglade).

▲ **DISTRIBUTION:** France.

*concolor* Delahon, 1914 [**Note: Nomen nudum**], see: *atrocephalum* Gyllenhal, 1827.

*convexum* Fauvel, 1878, see: *Eusphalerum*.

*corpulentum* Bernhauer, 1913, see: *Eusphalerum*.

*corsicum* Luze, 1910, see: *Eusphalerum*.

**coryleti** Gistel, 1857: 71 (*Lathrimaeum*; [Note: **Nomen dubium**]; Type locality: Tyrolis).

▲ **DISTRIBUTION:** Austria.

*crebepunctatum* Scheerpeltz, 1976, see: *Eusphalerum*.

**crenulatum** Hatch, 1957: 66 (*Anthobium*; Type locality: Oregon: Wasco Co.: Bear Springs).

— Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** USA.

*cribrellum* Fauvel, 1900, see: *Eusphalerum*.

*cribricolle* Baudi, 1870, see: *Eusphalerum*.

*croaticum* Luze, 1910, see: *Eusphalerum*.

**deinekini** Roubal, 1913b: 479 (*Lathrimaeum*; Type locality: Teberda).

— Scheerpeltz, 1933: 1055 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 84 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Caucasus).

— Tikhomirova, 1973a: 139 (*Lathrimaeum*; subgenus *Lathrimaeum*; checklist; Caucasus).

▲ **DISTRIBUTION:** Russia.

*densepilosum* Scheerpeltz, 1961, see: *Eusphalerum*.

*denticolle* Bernhauer, 1915, see: *Eusphalerum*.

*densipenne* Fauvel, 1900, see: *Eusphalerum*.

*diabolicum* Luze, 1905, see: *unicolor* Marsham, 1802.

*diabolicum* Roubal, 1914 [Note: **Nomen nudum**], see: *Eusphalerum*.

*dichroum* Fall, 1922, see: *Eusphalerum*.

*difficile* Rosenhauer, 1856, see: *Eusphalerum*.

*dimidiatum* Melsheimer, 1844, see: *Eusphalerum*.

*discinum* Gredler, 1863, see: *Eusphalerum*.

*dispar* Baudi, 1889, see: *Eusphalerum*.

*dissimile* Luze, 1910, see: *Eusphalerum*.

*diversicolle* Casey, 1894, see: *Eusphalerum*.

*elongatum* Ganglbauer, 1895, see: *Eusphalerum*.

*excavatum* Erichson, 1840, see: *Eusphalerum*.

**expansum** LeConte, 1879: 510 (*Deliphrum*; Type locality: Veta Pass, Colo.).

— Bernhauer and Schubert, 1910: 64 (*Deliphrum*; catalog).

— Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** USA.

*farrarae* Hatch, 1944, see: *Eusphalerum*.

*fauveli* Pic, 1893, see: *atrocephalum* Gyllenhal, 1827.

*fenyesi* Bernhauer, 1912, see: *Eusphalerum*.

*fidele* Luze, 1910, see: *Eusphalerum*.

**fimetarium** Mannerheim, 1830: 52 (*Omalium*; Type locality: Insula Sitcha Americae borealis).

— Mannerheim, 1831: 466 (*Omalium*; Sitka Island).

— Erichson, 1840: 899 (*Anthobium*; characters; Sitka).

— Mannerheim, 1843b: 235 (*Anthobium*; characters; Sitka Island).

— Fauvel, 1878d: 235 [= 1878e: 71] (*Lathrimaeum*; characters; Alaska).

— Bernhauer and Schubert, 1910: 64 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1933: 1055 (*Lathrimaeum*; catalog).

— Hatch, 1957: 66 (*Anthobium*; characters; British Columbia; Washington; Oregon; Idaho).

— Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** Canada, USA.

- flavipenne* Erichson, 1840, see: *Eusphalerum*.  
*formosae* Cameron, 1949, see: *Eusphalerum*.  
*foveicolle* Fauvel, 1871, see: *Eusphalerum*.  
*foveolatum* Luze, 1910, see: *Eusphalerum*.  
*fratellum* Rottenberg, 1874, see: *Deliphrosoma*.  
*fraternum* Casey, 1894, see: *Eusphalerum*.  
*fraternum* Luze, 1910, see: *Eusphalerum*.  
*frosti* Bernhauer, 1928, see: *Eusphalerum*.  
*fulvipenne* Solsky, 1874, see: *Eusphalerum*.

**fusculum** Erichson, 1839a: 626 (*Lathrimaeum*; Type locality: Mark Brandenburg).

- Erichson, 1840: 870 (*Lathrimaeum*; characters; Germany).
- Redtenbacher, 1849: 829 (*Lathrimaeum*; characters; Austria).
- Fairmaire and Laboulbène, 1856: 637 (*Lathrimaeum*; characters; France).
- Redtenbacher, 1857: 249 (*Olophrum*; characters; Austria).
- Kraatz, 1857d: 947 (*Lathrimaeum*; characters; Germany).
- Hochhuth, 1862: 103 (*Lathrimaeum*; Russia).
- Baudi, 1870: 401 (*Lathrimaeum*; characters).
- Fauvel, 1871a: 120 [= 1872: 94] (*Lathrimaeum*; characters; France; Switzerland; Germany; Austria; Russia).
- Redtenbacher, 1874: 268 (*Lathrimaeum*; characters; Austria).
- Seidlitz, 1875: 239 (*Lathrimaeum*; characters; Baltic region).
- Mulsant and Rey, 1880: 131 (*Lathrimaeum*; characters; France).
- Ganglbauer, 1895: 722 (*Lathrimaeum*; characters; middle Europe).
- Luze, 1905a: 67 (*Lathrimaeum*; characters; Tyrol).
- Reitter, 1909: 188 (*Lathrimaeum*; characters; Germany).
- Bernhauer and Schubert, 1910: 64 (*Lathrimaeum*; catalog).
- Johansen, 1914: 596 (*Lathrimaeum*; characters; Denmark).
- Portevin, 1929: 442 (*Lathrimaeum*; characters; France).
- Scheerpeltz, 1933: 1055 (*Lathrimaeum*; catalog).
- Palm, 1948: 102 (*Lathrimaeum*; characters; Denmark; Norway).
- Scheerpeltz, 1961c: 79 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Europe).
- Horion, 1963: 107 (*Lathrimaeum*; Norway; Denmark; Germany; Austria; France; Switzerland; Czechoslovakia).
- Lohse, 1964: 52 (*Lathrimaeum*; characters; central Europe).
- Coiffait, 1978f: 274 (*Lathrimaeum*; characters; France).
- Tóth, 1982: 80 (*Lathrimaeum*; characters).
- Zanetti, 1987: 297 (*Lathrimaeum*; characters; Italy).
- Lucht, 1987: 88 (*Lathrimaeum*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; Denmark; Sweden).
- Boháč, 1993: 41 (*Anthobium*; Czech Republic).
- Zanetti, 1995: 8 (*Lathrimaeum*; Italy).

▲ **DISTRIBUTION:** Europe, Russia.

**ganglbaueri** Luze, 1905a: 65 (*Lathrimaeum*; Type locality: Südungarn, Herkulesbad).

- Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).
- Scheerpeltz, 1961c: 83 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Capathians; Romania; Bulgaria).
- Tóth, 1982: 81 (*Lathrimaeum*; characters).
- H. Franz, 1984: 59 (*Lathrimaeum*; Macedonia).

▲ **DISTRIBUTION:** Bulgaria, Greece, Macedonia, Romania.

*genistarum* Coquerel, 1860, see: *Omalium*.

*gilvipenne* Casey, 1894, see: *Eusphalerum*.



*goetzelmanni* Luze, 1910, see: *Eusphalerum*.

*gracile* Luze, 1910, see: *Eusphalerum*.

**gracilicorne** Luze, 1905a: 66 (*Lathrimaeum*; Type locality: Nordafrika, Hammam R'iza).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 83 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Tunisia; Algeria; Morocco).

▲ **DISTRIBUTION:** Algeria, Morocco, Tunisia.

**gracilipalpe** Champion, 1920: 244 (*Eudeliphrum*; Type locality: W. Almora in Kumaon).

— Cameron, 1930: 153 (*Lathrimaeum*; characters; India).

— Scheerpeltz, 1933: 1056 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 75 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Himalaya).

▲ **DISTRIBUTION:** India.

*granulipenne* J. Sahlberg, 1871, see: *Eusphalerum*.

*grayae* Hatch, 1944, see: *Eusphalerum*.

**hamatum** Luze, 1905a: 59 (*Lathrimaeum*; Type locality: Caucasus, Meskisches Gebirge. Also cited from Armenia).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 76 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Caucasus).

— Tikhomirova, 1973a: 139 (*Lathrimaeum*; subgenus *Lathrimaeum*; checklist; Caucasus).

— Bordoni, 1986c: 43 (*Lathrimaeum*; characters).

▲ **DISTRIBUTION:** Georgia, Armenia.

**hammondi** Watanabe, 1989: 53 (*Lathrimaeum*; Type locality: Japan).

— Sharp, 1874: 98 (*Lathrimaeum*; [Note: Misidentified as *atrocephalum* according to Watanabe, 1989: 53]; Japan).

— Watanabe, 1990: 124 (*Lathrimaeum*; characters; Japan).

▲ **DISTRIBUTION:** Japan.

*heydeni* Bernhauer, 1902, see: *Eusphalerum*.

*hirtellum* Fauvel, 1901, see: *Eusphalerum*.

*hispanicum* Brisout, 1866, see: *Eusphalerum*.

*horni* Fauvel, 1878, see: *Eusphalerum*.

*humerales* Casey, 1886, see: *Deinopteroloma*.

*hummleri* Bernhauer, 1908, see: *Eusphalerum*.

*impressicolle* Kiesenwetter, 1850, see: *Eusphalerum*.

*improvisum* Luze, 1911, see: *Eusphalerum*.

*indicum* Champion, 1920, see: *Eusphalerum*.

*italicum* C. Koch, 1938, see: *Eusphalerum*.

*japonicum* Bernhauer, 1909, see: *Eusphalerum*.

*jurassicum* Jarrige, 1946, see: *Eusphalerum*.

*kambaitiense* Scheerpeltz, 1965, see: *Eusphalerum*.

**kashmiricum** Cameron, 1941: 58 (*Lathrimaeum*; subgenus *Prionothorax*; Type locality: Kashmir: Gulmarg).

▲ **DISTRIBUTION:** India.

**knappei** Scheerpeltz, 1961c: 83, 89 (*Lathrimaeum*; subgenus *Lathrimaeum*; Type locality: Nordwestfuss des Bergzuges Galicica Dorf Ramne südöstlich von Ochrid in Mazedonien in etwa 1000 bis 1200 m).

▲ **DISTRIBUTION:** Macedonia.

*korbi* Bernhauer, 1903, see: *Eusphalerum*.

*kraatzii* Jacquelin du Val, 1857, see: *Eusphalerum*.

**kuehnelti** Scheerpeltz, 1963a: 415, 426 (*Lathrimaeum*; subgenus *Lathrimaeum*; Type locality: im Tannenwald bei Ano Trikkala im Ziria-[Kyllänë-] Massiv des nordöstlichen Peloponnes).

▲ **DISTRIBUTION:** Greece.

*krasae* Roubal, 1940, see: *Eusphalerum*.

*lacinipenne* Scheerpeltz, 1976, see: *Eusphalerum*.

*laevipenne* Baudi, 1870, see: *Eusphalerum*.

**laterale** Luze, 1911: 293 (*Lathrimaeum*; Type locality: Kaukasus occid., Krasnaja Poljana).

— Scheerpeltz, 1933: 1056 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 81 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Caucasus).

— Tikhomirova, 1973a: 139 (*Lathrimaeum*; subgenus *Lathrimaeum*; checklist; northwestern Caucasus).

▲ **DISTRIBUTION:** Russia.

*lewisi* Cameron, 1930, see: *Eusphalerum*.

*liepolti* Bernhauer, 1943, see: *Eusphalerum*.

*limbatum* Erichson, 1840, see: *Eusphalerum*.

*lindbergi* Bernhauer, 1931, see: *Eusphalerum*.

**longicorne** Fauvel, 1886: 15 [= 1886a: 7] (*Lathrimaeum*; Type locality: Algérie: Teniet-el-Had, forêt des Cèdres).

— Fauvel, 1902b: 56 (*Lathrimaeum*; Algeria).

— Luze, 1905a: 62 (*Lathrimaeum*; characters; Algeria).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 78 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Algeria).

— Coiffait, 1973a: 269 (*Lathrimaeum*; Morocco).

▲ **DISTRIBUTION:** Algeria, Morocco.

*longipenne* Stephens, 1834, see: *atrocephalum* Gyllenhal, 1827.

*longipenne* Erichson, 1839, see: *Eusphalerum*.

*longulum* Kiesenwetter, 1847, see: *Eusphalerum*.

*luigionii* Bernhauer, 1940, see: *Eusphalerum*.

*luteicorne* Erichson, 1840, see: *Eusphalerum*.

*luteipenne* Erichson, 1840, see: *Eusphalerum*.

*luteum* Erichson, 1840, see: *unicolor* Marsham, 1802.

*luzei* Roubal, 1915, see: *Eusphalerum*.

*lybicum* Normand, 1935 [**Note: Nomen nudum**], see: *Eusphalerum*.

*macrocephalum* Eppelsheim, 1873, see: *Deliphrosoma*.

*macropterum* Kraatz, 1857, see: *Eusphalerum*.

*maculicolle* Fairmaire, 1860, see: *Eusphalerum*.

*malaisei* Scheerpeltz, 1965, see: *Eusphalerum*.

*marshami* Fauvel, 1869, see: *Eusphalerum*.

**melanocephalum** Illiger, 1794: 596 (*Silpha*; Type locality: not cited, possibly Braunschweig).

— Panzer, 1795: 122 (*Silpha*; characters; Germany).

— Illiger, 1798: 356 (*Silpha*; characters).

— Panzer, 1808b: 5 (*Silpha*; characters; Germany).

— Runde, 1835: 22 (*Omalium*; [**Note:** Panzer cited as the author of *Silpha melanocephala*]; characters; Germany).

— Lacordaire, 1835: 485 (*Omalium*; [**Note:** Sturm cited as the author of *Nitidula melanocephala*]; characters; France).

- Heer, 1839: 187 (*Lathrimaeum*; [**Note:** Misidentification: Bernhauer and Schubert, 1910: 65 cited *atrocephalum* Heer as a synonym of *melanocephalum* Illiger; Heer did not describe the species as new, he attributed it to Gyllenhal]; characters; Switzerland).
  - Heer, 1839: 188 (*Lathrimaeum*; characters; Switzerland).
  - Erichson, 1840: 869 (*Lathrimaeum*; characters; Germany).
  - Redtenbacher, 1849: 749 (*Lathrimaeum*; characters; Austria).
  - Fairmaire and Laboulbène, 1856: 636 (*Lathrimaeum*; characters; France).
  - Redtenbacher, 1857: 248 (*Lathrimaeum*; characters; Austria).
  - Kraatz, 1857d: 944 (*Lathrimaeum*; characters; Germany).
  - Fauvel, 1871a: 118 [= 1872: 92] (*Lathrimaeum*; characters; France; Germany; Switzerland; Italy; Austria).
  - Fauvel, 1874: 323 [= 1874b: 29] (*Lathrimaeum*; Russia).
  - Redtenbacher, 1874: 269 (*Lathrimaeum*; characters; Austria).
  - Seidlitz, 1875: 239 (*Lathrimaeum*; characters; Baltic region).
  - Mulsant and Rey, 1880: 125 (*Lathrimaeum*; characters; France).
  - Ganglbauer, 1895: 722 (*Lathrimaeum*; characters; middle Europe).
  - Luze, 1905a: 58 (*Lathrimaeum*; characters; central and northern Europe).
  - Reitter, 1909: 187 (*Lathrimaeum*; characters; Germany).
  - Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).
  - Johansen, 1914: 594 (*Lathrimaeum*; characters; Denmark).
  - Portevin, 1929: 441 (*Lathrimaeum*; characters; France).
  - Scheerpeltz, 1933: 1056 (*Lathrimaeum*; catalog).
  - Scheerpeltz and Höfler, 1948: 153 (*Lathrimaeum*; fungus inhabitant).
  - Palm, 1948: 101 (*Lathrimaeum*; characters; Sweden; Norway).
  - Scheerpeltz, 1961c: 76 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Europe).
  - Szujewski, 1963a: 32 (*Lathrimaeum*; Poland).
  - Horion, 1963: 105 (*Lathrimaeum*; Norway; Sweden; Poland; Czechoslovakia; Romania; Bosnia; Croatia; Slovenia; Italy; Switzerland; France; Belgium; Germany; Austria).
  - Lohse, 1964: 52 (*Lathrimaeum*; characters; central Europe).
  - Coiffait, 1978f: 275 (*Lathrimaeum*; characters; France).
  - Tóth, 1982: 80 (*Lathrimaeum*; characters; Hungary).
  - Zanetti, 1987: 294 (*Lathrimaeum*; characters; Italy).
  - Lucht, 1987: 88 (*Lathrimaeum*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux; Sweden).
  - Boháč, 1993: 41 (*Anthobium*; Slovakia; Czech Republic).
  - Zanetti, 1995: 8 (*Lathrimaeum*; Italy).
  - Cibulskis, 1998: 67 (*Anthobium*; Latvia).
  - Cibulskis, 1999: 35 (*Anthobium*; list; Latvia).
- ▲ **DISTRIBUTION:** Europe, Russia.

**melanochromum** Iablokov-Khuzorian, 1961: 140 (*Lathrimaeum*; Type locality: Armenia: Sevan, bord du lac en face de l'ancienne île).

- Tikhomirova, 1973a: 139 (*Lathrimaeum*; subgenus *Lathrimaeum*; checklist; Armenia).

▲ **DISTRIBUTION:** Armenia.

*melanurum* C. Koch, 1938 [**Note:** **Nomen nudum**], see: *Eusphalerum*.

*melichari* Bernhauer, 1913, see: *Eusphalerum*.

**mesasiaticum** Kirshenblat, 1961: 363 (*Lathrimaeum*; Type locality: Tadzhikistan: Stalinabad. Also cited from Uzbekistan).

- Tikhomirova, 1973a: 139 (*Lathrimaeum*; subgenus *Lathrimaeum*; checklist; Central Asia).

▲ **DISTRIBUTION:** Tajikistan, Uzbekistan.

**metallicum** Luze, 1905a: 63 (*Lathrimaeum*; Type locality: Syrie, Akbes).

- Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).
- Scheerpeltz, 1961c: 77 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Syria; Lebanon).

▲ **DISTRIBUTION:** Lebanon, Syria.

*metasternale* Fauvel, 1898, see: *Eusphalerum*.

*microcephalum* Motschulsky, 1860, see: *Eusphalerum*.

*minskae* Hatch, 1944, see: *Eusphalerum*.

*miricolle* Sainte-Claire Deville, 1901, see: *Eusphalerum*.

*mocsarskii* Bernhauer, 1913, see: *Eusphalerum*.

**moczarskii** Scheerpeltz, 1961c: 77, 85 (*Lathrimaeum*; subgenus *Lathrimaeum*; Type locality: Süd-Spanien auf der Sierra Alfacar).

▲ **DISTRIBUTION:** Spain.

*montanum* Erichson, 1840, see: *Eusphalerum*.

**monticola** Cameron, 1924b: 169 (*Lathrimaeum*; Type locality: Chakrata and Simla Districts, 7000 to 9000 feet).

— Cameron, 1930: 154 (*Lathrimaeum*; characters; India).

— Scheerpeltz, 1933: 1056 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 78 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; India).

▲ **DISTRIBUTION:** India.

*mucronatum* Stephens, 1834, see: *Eusphalerum*.

*nepalense* Scheerpeltz, 1976, see: *Eusphalerum*.

*notabile* Cameron, 1941, see: *Deinopteroloma*.

*nigerrimum* Casey, 1894, see: *Eusphalerum*.

*nigricorne* Stephens, 1834, see: *Proteinus*.

*nigriventre* Stephens, 1834, see: *Eusphalerum*.

*nigriventre* Motschulsky, 1860, see: *Eusphalerum*.

**nigropiceum** Casey, 1894: 417 (*Lathrimaeum*; Type locality: California: Santa Cruz Co.).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

— Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** USA.

*nigrum* Erichson, 1840, see: *Eusphalerum*.

**nigrum** Cameron, 1924b: 170 (*Lathrimaeum*; [**Note:** Preoccupied as a secondary homonym]; Type locality: Simla Hills; Gahan, 7000 feet).

— Cameron, 1930: 152 (*Lathrimaeum*; characters; India).

— Scheerpeltz, 1933: 1056 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 75 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Himalayan region).

▲ **DISTRIBUTION:** India.

*nitidicolle* Baudi, 1857, see: *Eusphalerum*.

*nitidifrons* Luze, 1910, see: *Eusphalerum*.

*nitidum* Stephens, 1834, see: *Proteinus*.

*nudum* Luze, 1910, see: *Eusphalerum*.

*nuristanicum* Scheerpeltz, 1961, see: *Eusphalerum*.

*obliquum* Mulsant and Rey, 1861, see: *Eusphalerum*.

*oblitum* Fairmaire and Laboulbène, 1856, see: *Eusphalerum*.

*oblongum* Lacordaire, 1835, see: *Xylodromus*.

*obscurillum* Luze, 1911 [**Note:** **Nomen nudum**], see: *Eusphalerum*.

*obscurum* Brisout, 1866, see: *Eusphalerum*.

*obsoletum* Erichson, 1840, see: *Eusphalerum*.

*obtusicolle* Fauvel, 1876, see: *Eusphalerum*.

**occidium** Casey, 1894: 420 (*Deliphrum*; Type locality: California: Siskiyou Co.).

— Bernhauer and Schubert, 1910: 64 (*Deliphrum*; catalog).

— Hatch, 1957: 67 (*Deliphrum*; cited as *occidum*; characters; British Columbia; Washington; Oregon).

— Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** Canada, USA.

*octavii* Fauvel, 1871, see: *Eusphalerum*.

*orientale* Bernhauer, 1912, see: *Eusphalerum*.

*palligerum* Kiesenwetter, 1847, see: *Eusphalerum*.

*parallelum* Sharp, 1889, see: *Eusphalerum*.

*parnassicum* Bernhauer, 1910, see: *Eusphalerum*.

*parvulum* Scheerpeltz, 1976, see: *Eusphalerum*.

*pectorale* Luze, 1910, see: *Eusphalerum*.

*petzi* Bernhauer, 1910, see: *Eusphalerum*.

*petzianum* Bernhauer, 1929, see: *Eusphalerum*.

*pfefferi* Roubal, 1941, see: *Eusphalerum*.

*piceum* Stephens, 1834, see: *Omalium*.

*picipenne* Stephens, 1834, see: *Eusphalerum*.

*pictum* Fauvel, 1878, see: *Deinopteroloma*.

*pilosellum* Luze, 1910, see: *Eusphalerum*.

*pollens* Sharp, 1889, see: *Eusphalerum*.

*pothos* Mannerheim, 1843, see: *Eusphalerum*.

**pourtoyi** Coiffait, 1978f: 273 (*Lathrimaeum*; Type locality: Hautes-Pyrénées, Lac Bleu).

▲ **DISTRIBUTION:** France.

*procerum* Baudi, 1857, see: *Eusphalerum*.

*prolongatum* Rottenberg, 1873, see: *Deliphrosoma*.

*pruinatum* Fauvel, 1871, see: *Eusphalerum*.

*pseudocupariae* E. Strand, 1917, see: *Eusphalerum*.

*pulcherrimum* Bernhauer, 1902, see: *Eusphalerum*.

*pumilio* Rosenhauer, 1856, see: *Eusphalerum*.

*punctatum* Casey, 1894, see: *Eusphalerum*.

*puncticeps* Luze, 1910, see: *Eusphalerum*.

*puncticolle* Gredler, 1863, see: *Eusphalerum*.

*punctulatum* Mulsant and Rey, 1880, see: *Eusphalerum*.

*ragusae* Bernhauer, 1923, see: *Eusphalerum*.

*rectanguloides* Smetana, 1967, see: *Eusphalerum*.

*rectangulum* Baudi, 1870, see: *Eusphalerum*.

*rectangulum* Fauvel, 1871, see: *Eusphalerum*.

**reflexicolle** Casey, 1894: 417 (*Lathrimaeum*; Type locality: British Columbia: Stickeen River Cañon).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

— Hatch, 1957: 65 (*Anthobium*; characters; British Columbia; Washington; Oregon; Idaho).

— Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** Canada, USA.

**reflexum** Reitter, 1891b: 195 (*Lathrimaeum*; Type locality: bei Taschkent).

— Luze, 1905a: 68 (*Lathrimaeum*; subgenus *Prionothrax*; characters; Turkestan; Buchara).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

- Scheerpeltz, 1961c: 85 (*Lathrimaeum*; subgenus *Prionothonax*; characters; Turkestan; Buchara).
- Coiffait, 1970d: 144 (*Lathrimaeum*; subgenus *Prionothonax*; Uzbekistan).
- Tikhomirova, 1973a: 139 (*Lathrimaeum*; subgenus *Lathrimaeum*; checklist; Central Asia).

▲ **DISTRIBUTION:** Uzbekistan.

*reitteri* Bernhauer, 1935, see: *Eusphalerum*.

*retowskii* Bernhauer, 1914, see: *Eusphalerum*.

*rhododendri* Baudi, 1848, see: *Eusphalerum*.

*rhododendri* Motschulsky, 1857, see: *Eusphalerum*.

**roubali** Luze, 1911: 293 (*Lathrimaeum*; Type locality: Kaukasus occid., Krasnaja Poljana).

— Scheerpeltz, 1933: 1056 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 81 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Caucasus).

▲ **DISTRIBUTION:** Russia.

*ruffoi* Scheerpeltz, 1956, see: *Eusphalerum*.

*ruficolle* Stephens, 1834, see: *atrocephalum* Gyllenhal, 1827.

**ruficorne** Stephens, 1834: 338 (*Anthobium*; [**Note: Nomen dubium**]; Type locality: Not cited, but presumably Britain).

— Stephens, 1839: 425 (*Anthobium*; characters; England).

▲ **DISTRIBUTION:** England.

*rufipenne* Gerhardt, 1910 [**Note: Nomen nudum**], see: *Eusphalerum*.

*rufiventre* Cameron, 1930, see: *Eusphalerum*.

*rufoscutellatum* Eppelsheim, 1881, see: *Eusphalerum*.

*rufotestaceum* Motschulsky, 1860, see: *Eusphalerum*.

*rufulum* Luze, 1910 [**Note: Nomen nudum**], see: *Eusphalerum*.

**rugosum** Champion, 1925: 103 (*Lathrimaeum*; Type locality: Upper Gumti Valley, W. Almora Division, alt. 6000 ft.).

— Cameron, 1930: 154 (*Lathrimaeum*; characters; India).

— Scheerpeltz, 1933: 1056 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 85 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; India).

— Coiffait, 1977: 244 (*Lathrimaeum*; Nepal).

▲ **DISTRIBUTION:** India, Nepal.

*rugulosum* Mäklin, 1853, see: *Eusphalerum*.

*sahlbergi* Luze, 1910, see: *Eusphalerum*.

*sardoum* Scheerpeltz, 1961, see: *atrocephalum* Gyllenhal, 1827.

*sareptanum* Eppelsheim, 1878, see: *Eusphalerum*.

*satanas* Luze, 1911 [**Note: Nomen nudum**], see: *Eusphalerum*.

*schatzmayri* C. Koch, 1938, see: *Eusphalerum*.

*scribae* Schaufuss, 1862, see: *Eusphalerum*.

*scutellare* Erichson, 1840, see: *Eusphalerum*.

*sibiricum* Luze, 1910, see: *Eusphalerum*.

*signatum* Märkel, 1857, see: *Eusphalerum*.

*sikkimi* Fauvel, 1904, see: *Eusphalerum*.

*silesiacum* Letzner, 1868, see: *Eusphalerum*.

*sinuatocolle* Lokay, 1919, see: *Eusphalerum*.

**sinuosum** Hatch, 1957: 66 (*Anthobium*; Type locality: B. C. [British Columbia]: Creston. Also cited from Washington, Oregon, Idaho).

— Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** Canada, USA.

**socialis** Cameron, 1941: 59 (*Lathrimaeum*; subgenus *Prionothorax*; Type locality: Kashmir: Gulmarg, alt. 8000–10,000 feet).

▲ **DISTRIBUTION:** India.

*solitare* Sharp, 1874, see: *Eusphalerum*.

*sorbicola* Y. Kangas, 1941, see: *Eusphalerum*.

*sordidulum* Kraatz, 1857, see: *Eusphalerum*.

**sordidum** Erichson, 1840: 871 (*Lathrimaeum*; Type locality: America septentrionalis).

— LeConte, 1850: 221 (*Lathrimaeum*; Lake Superior).

— Provancher, 1877: 260 (*Lathrimaeum*; characters; Quebec).

— Fauvel, 1878d: 235 [= 1878e: 71] (*Lathrimaeum*; characters; North America).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

▲ **DISTRIBUTION:** Canada, USA.

*sparsum* Fauvel, 1876, see: *Eusphalerum*.

**spretum** Casey, 1894: 418 (*Lathrimaeum*; Type locality: California: Siskiyou Co.).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

— Moore, 1966: 55 (*Anthobium*).

▲ **DISTRIBUTION:** USA.

*starcki* Reitter, 1890, see: *Eusphalerum*.

*stramineum* Kraatz, 1857, see: *Eusphalerum*.

*stussineri* Bernhauer, 1909, see: *Eusphalerum*.

*subangulatum* Casey, 1894, see: *Eusphalerum*.

*subcostatum* Mäklin, 1852, see: *Deinopteroloma*.

*subjectum* Mulsant and Rey, 1880, see: *Eusphalerum*.

*subsulcatum* Stephens, 1834, see: *Proteinus*.

*sulculum* Stephens, 1834, see: *Acrolocha*.

*tempestivum* Erichson, 1840, see: *Eusphalerum*.

*tenebaumi* Bernhauer, 1932, see: *Eusphalerum*.

**tenuis** Eppelsheim, 1881: 507 (*Lathrimaeum*; Type locality: Suramgebirge).

— Luze, 1905a: 60 (*Lathrimaeum*; characters; Caucasus).

— Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).

— Scheerpeltz, 1961c: 80 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Caucasus).

— Bordoni, 1986c: 43 (*Lathrimaeum*; characters).

— Tikhomirova, 1973a: 139 (*Lathrimaeum*; subgenus *Lathrimaeum*; checklist; Caucasus).

▲ **DISTRIBUTION:** Georgia.

*tibiale* Casey, 1894, see: *Eusphalerum*.

*tibiale* Luze, 1910, see: *Eusphalerum*.

*transcaucasicum* Bernhauer, 1902, see: *Eusphalerum*.

*triviale* Erichson, 1839, see: *Eusphalerum*.

*umbellatarum* Kiesenwetter, 1850, see: *Eusphalerum*.

*umbricolor* Roubal, 1915, see: *Eusphalerum*.

*uncipes* C. Koch, 1938, see: *Eusphalerum*.

**unicolor** Marsham, 1802: 127 (*Silpha*; Type locality: Britain).

— Stephens, 1834: 343 (*Anthobium*; characters; England).

— Stephens, 1839: 426 (*Lathrimaeum*; characters; England).

— Stephens, 1839: 427 (*Olophrum*; [**Note:** Misidentified as *assimile* according to Waterhouse, 1858: 31]; characters; England).

— Hardy, 1851: 58 (*Lathrimaeum*; synonym of *atrocephalum*).

— Fauvel, 1871a: 119 [= 1872: 93] (*Lathrimaeum*; characters; France; Britain; Germany; Portugal).

- Fauvel, 1876a: 52 [= 1876: 237] (*Lathrimaeum*; Spain).
- Fowler, 1888: 406 (*Lathrimaeum*; characters; Britain).
- Ganglbauer, 1895: 722 (*Lathrimaeum*; characters; middle Europe; Portugal).
- Luze, 1905a: 61 (*Lathrimaeum*; characters; central Europe; Spain; Portugal).
- Reitter, 1909: 188 (*Lathrimaeum*; characters; Germany).
- Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; catalog).
- Johansen, 1914: 596 (*Lathrimaeum*; characters; Denmark).
- Portevin, 1929: 441 (*Lathrimaeum*; characters; France).
- Scheerpeltz, 1933: 1056 (*Lathrimaeum*; catalog).
- Palm, 1948: 101 (*Lathrimaeum*; characters; Sweden; Denmark; Norway).
- Scheerpeltz, 1961c: 81 (*Lathrimaeum*; subgenus *Lathrimaeum*; characters; Europe an Mediterranean region).
- Horion, 1963: 106 (*Lathrimaeum*; Britain; Denmark; Norway; Sweden; Holland; Belgium; France; Spain; Portugal; Romania ?; Slovakia ?; Germany; Austria).
- Lohse, 1964: 52 (*Lathrimaeum*; characters; central Europe).
- Kasule, 1968: 134 (*Lathrimaeum*; larval characters).
- Kasule, 1968a: 73 (*Lathrimaeum*; life history).
- Steel, 1970a: 18 (*Anthobium*; biological notes).
- Pope, 1977: 22 (*Anthobium*; Britain).
- Coiffait, 1978f: 275 (*Lathrimaeum*; characters; France).
- Burakowski, Mroczkowski, and Stefańska, 1979: 57 (*Anthobium*; Poland).
- Hammond, 1980: 136 (*Anthobium*; Ireland).
- Tóth, 1982: 80 (*Lathrimaeum*; characters).
- Lucht, 1987: 88 (*Lathrimaeum*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux; Denmark; Sweden).
- Detner and Reissenweber, 1991 (*Lathrimaeum*; defensive secretions: chemistry and systematics).
- Welch, 1993: 227 (*Anthobium*; ovariole number and ovary structure).
- Boháč, 1993: 41 (*Anthobium*; Slovakia ?).
- Owen, 1999b: 61 (*Anthobium*; captured underground at roots of old trees; Britain).
- Owen, 2000: 251 (*Anthobium*; pitfall trap collections from underground at roots of trees; Britain).
- Assing, 2001: 75 (*Anthobium*; collected from xerothermous site; Germany).

▲ **DISTRIBUTION:** Europe.

- assimile* Stephens, 1834: 342 (*Anthobium*; Type locality: London; Suffolk).
- G. Waterhouse, 1858: 31 (*Lathrimaeum*; synonym of *unicolor*).
  - Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; synonym of *unicolor*).
- luteum* Erichson, 1840: 869 (*Lathrimaeum*; Type locality: Lusitania).
- Fairmaire and Laboulbène, 1856: 636 (*Lathrimaeum*; characters; France).
  - Redtenbacher, 1857: 249 (*Olophrum*; characters; Germany).
  - Kraatz, 1857d: 945 (*Lathrimaeum*; characters; Germany).
  - G. Waterhouse, 1858: 31 (*Lathrimaeum*; synonym of *unicolor*).
  - Thomson, 1867: 315 (*Lathrimaeum*; characters; Scandinavia).
  - Thomson, 1867a: 48 (*Lathrimaeum*; characters; Scandinavia).
  - Fauvel, 1871a: 119 [= 1872: 119] (*Lathrimaeum*; synonym of *unicolor*).
  - Redtenbacher, 1874: 269 (*Lathrimaeum*; characters; Germany).
  - Seidlitz, 1875: 239 (*Lathrimaeum*; characters; Baltic region).
  - Mulsant and Rey, 1880: 123 (*Lathrimaeum*; characters; France).
  - Fowler, 1888: 406 (*Lathrimaeum*; synonym of *unicolor*).
  - Ganglbauer, 1895: 722 (*Lathrimaeum*; synonym of *unicolor*).
  - Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; synonym of *unicolor*).
  - Scheerpeltz, 1933: 1056 (*Lathrimaeum*; synonym of *unicolor*).
- diabolicum* Luze, 1905a: 61 (*Lathrimaeum*; variety of *unicolor*; Type locality: Not cited).
- Bernhauer and Schubert, 1910: 65 (*Lathrimaeum*; variety of *unicolor*).
  - Scheerpeltz, 1961c: 81 (*Lathrimaeum*; subgenus *Lathrimaeum*; aberration of *unicolor*; characters).



**urgelense** Fagel, 1968: 122 (*Lathrimaeum*; Type locality: Espagne: Catalogne, Seo de Urgel, contreforts de la Sierra del Cadi, 1000 m).

▲ **DISTRIBUTION:** Spain.

*ustulatum* Fairmaire and Laboulbène, 1856, see: *Eusphalerum*.

*viertli* Ganglbauer, 1895, see: *Eusphalerum*.

*zolutarevi* Reitter, 1909, see: *Eusphalerum*.

### **Anthophagus**

[36 species (7 doubtful); Palaearctic and Nearctic Regions]

*Anthophagus* Gravenhorst, 1802: 120 (species included: *caraboides*, *abbreviatus*, *testaceus*, *armiger*, *obscurus*, *plagiatus*, *dichrous*, *alpinus*; [**Note:** Without action by the Commission the name of this genus must be *Lesteva* and the generic name for the species currently in *Lesteva* must be *Tevala*. See Herman, 2001: 7]). **TYPE SPECIES:** *Staphylinus alpinus* Fabricius, fixed by subsequent designation by Thomson, 1859: 48.

- Latreille, 1802: 129 (cited as *antophagus*; synonym of *Lesteva*).
- Latreille, 1804: 286, 366 (cited as synonym of *Lesteva*).
- Latreille, 1806: 296 (synonym of *Lesteva*).
- Gravenhorst, 1806: 220 (characters).
- Gyllenhal, 1810: 191 (characters).
- Leach, 1815: 92 (characters).
- Billberg, 1820: 15 (characters; list of some species).
- Dejean, 1821: 25 (cited as *Antophagus*; list of species in collection).
- C. Sahlberg, 1827: 273 (characters).
- Zetterstedt, 1828: 44 (characters).
- Latreille, 1829: 439 (synonym of *Lesteva*).
- Dejean, 1833: 68 (list of species).
- Gistel, 1834: 9 (list of species).
- Say, 1834: 463 (characters).
- Zetterstedt, 1838: 48 (characters).
- Erichson, 1839a: 614 (characters).
- Heer, 1839: 194 (characters).
- Erichson, 1840: 847 (characters).
- Laporte, 1840: 192 (characters).
- Kiesenwetter, 1845: 21 (notes).
- Redtenbacher, 1849: 745 (characters).
- Schaum, 1852: 29 (list of species; Europe).
- Lacordaire, 1854: 135 (characters; notes; list of species).
- Fairmaire and Laboulbène, 1856: 625 (characters).
- Gistel, 1856: 267, 389 (list of species).
- Jacquelin du Val, 1857: 69 (characters).
- Redtenbacher, 1857: 241 (characters; key to Austrian species).
- Kraatz, 1857d: 912 (characters).
- Thomson, 1858: 37 (characters).
- G. Waterhouse, 1858: 30 (catalog of British species).
- Thomson, 1859: 48 (characters; type species: *alpinus*).
- Schaum, 1859: 31 (catalog; European species).
- LeConte, 1861a: 70 (characters).
- Thomson, 1861: 178 (characters).
- Gredler, 1863: 119 (list of species from Tirol).
- LeConte, 1863: 26 (list of North American species).
- Wencker and Silbermann, 1866: 35 (list of species; collecting notes; France).
- Gemminger and Harold, 1868: 657 (catalog).
- Jacquelin du Val, 1868: 79 (catalog; European species).
- Fauvel, 1871a: 137 [= 1872: 111] (characters; key to species).
- Sharp, 1871d: 14 (list of British species).

- Redtenbacher, 1874: 263 (characters; key to Austrian species).
- Fauvel, 1875a: VII [= 1875b: 209] (catalog).
- Provancher, 1877: 259 (characters).
- Mulsant and Rey, 1880: 8 (characters; key to French species).
- Heyden, 1880: 81 (list of species of Siberian region).
- Duvivier, 1883: 193 (catalog).
- Fowler, 1888: 398 (notes; key to British species).
- Seidlitz, 1891: 348 (key to some European species).
- Seidlitz, 1891a: 371 (key to some European species).
- Heyden, Reitter, and Weise, 1891: 117 (list of species of Europe and Caucasus).
- Ganglbauer, 1895: 704 (characters; key to middle European species).
- Luze, 1902d: 505 (characters; key to Palaearctic species).
- Heyden, Reitter, and Weise, 1906: 136 (list of species of Europe and Caucasus).
- Sainte-Claire Deville, 1907: 50 (characters; key to and annotated list of species of Seine Basin, France).
- Reitter, 1909: 182 (characters; key to German species).
- Bernhauer and Schubert, 1910: 78 (world catalog; 29 species).
- Johansen, 1914: 585 (characters).
- Winkler, 1925: 335 (catalog for Palaearctic region).
- Porta, 1926: 31 (characters; key to species of Italy).
- Portevin, 1929: 433 (characters; key to French species).
- Roubal, 1930: 317 (catalog; Slovakia).
- Joy, 1932: 98 (key to British species).
- Scheerpeltz, 1933: 1067 (world catalog supplement).
- C. Koch, 1933a (discussion; classification).
- C. Koch, 1934a (revision; key to species; redescription of species; discussion; distribution).
- Scheerpeltz, 1937b: 199 (list of Bulgarian species).
- Kloet and Hincks, 1945: 161 (list of British species).
- Palm, 1948: 123 (characters; key to species of Sweden).
- Tottenham, 1949: 358, 408 (type species: *alpinus* Paykull; list of British species).
- Blackwelder, 1952: 56 (type species).
- Tottenham, 1954: 34 (characters; key to British species).
- Smetana, 1959a: 196 (list of species collected in Albania).
- Horion, 1963: 138 (list of central European species).
- Székessy, 1963: 22 (characters).
- Lohse, 1964: 63 (characters; key to central European species).
- Moore, 1966: 48, 51 (characters; notes).
- Pototskaia, 1967: 20 (larval characters).
- Scheerpeltz, 1968a: 17 (catalog of Austrian species).
- Steel, 1970a: 21 (larval characters; biological notes).
- Tikhomirova, 1973a: 141 (checklist of species of USSR).
- Moore and Legner, 1975: 183 (catalog; one unnamed species from California).
- Pope, 1977: 23 (list of British species).
- Topp, 1978: 309 (larval characters).
- Burakowski, Mroczkowski, and Stefańska, 1979: 71 (catalog; Poland).
- Moore and Legner, 1979: 178 (characters; notes).
- Muona, 1979: 18 (list of Scandinavian species).
- Uhlig, Vogel, and Sieber, 1980: 240 (some species collected in Germany).
- Uhlig and Vogler, 1981: 88 (list of some species collected in Germany; habitat and collecting notes).
- Tóth, 1982: 89 (characters; habitus; key to species of Hungary).
- Ádám, 1985: 251 (list of species from southeast Hungary).
- Muona and Viramo, 1986: 16 (list of species of northeastern Finland).
- Segers, 1986: 23 (checklist of species; Belgium).
- Zanetti, 1987: 387 (characters; habitus; key to species of Italy).
- Dettner and Reissenweber, 1991 (defensive secretions: chemistry and systematics).

- Angelini, 1991: 190 (list of species from high elevations of Calabria, Italy).
- Silfverberg, 1992: 22 (list of species of Fennoscandia, Denmark, and the Baltic States).
- Siitonen, 1993: 230 (list of Finnish species).
- Boháč, 1993: 41 (list of species of Czech Republic and Slovakia).
- Zanetti, 1995: 9 (list of species of Italy).
- M. Hansen, 1996: 95 (list of Danish species).
- M. Hansen, Palm, Pedersen, and Runge, 1998: 70 (list of species collected in 1997; Denmark).
- Newton, Thayer, Ashe, and Chandler, 2000: 339 (1 undescribed Nearctic species; notes; characters in key).

*Phaganthus* Mulsant and Rey, 1880: 12, 42 (subgenus of *Anthophagus*; species included: *scutellaris*, *testaceus*, *praeustus*, *rotundicollis*). **TYPE SPECIES:** *Anthophagus testaceus* Gravenhorst, fixed by subsequent designation by Blackwelder, 1952: 299.

- Ganglbauer, 1895: 704 (subgenus of *Anthophagus*).
- Bernhauer and Schubert, 1910: 78 (subgenus of *Anthophagus*).
- Joy, 1932: 99 (key to British species).
- Scheerpeltz, 1933: 1067 (subgenus of *Anthophagus*).
- Tottenham, 1945: 70 (subgenus of *Anthophagus*; cited as *Plaganthus* [**Note:** Corrected to *Phaganthus* by Tottenham, 1949c: 41]; type species: *Staphylinus caraboides* Linné, 1785 = *Anthophagus testaceus* Gravenhorst, 1802 [**Note:** *caraboides* was not an originally included species]).
- Kloet and Hincks, 1945: 161 (list of British species).
- Tottenham, 1949: 358, 408 (subgenus of *Anthophagus*; type species: *caraboides* Linné = *testaceus* Gravenhorst; list of British species).
- Horion, 1963: 138 (cited as *Phagantus*; subgenus of *Anthophagus*; list of central European species).
- Lohse, 1964: 64 (subgenus of *Anthophagus*; characters; key to central European species).
- Kasule, 1968: 133, 136 (larval characters).
- Zanetti, 1987: 387 (subgenus of *Anthophagus*; characters; key to species of Italy).

*Dimorphoschelus* Blackwelder, 1952: 126. **TYPE SPECIES:** *Anthophagus alpestris* Heer, fixed by subsequent designation by Blackwelder, 1952: 126.

- C. Koch, 1933a: 140, 142 (characters; subgenus of *Anthophagus*; species included: *angusticollis*, *fulvus*, *gracilis*, *obscuriceps*, *fascifer*, *apfelbecki*, *schneideri*, *omalinus*, *arpedinus*, *arrowsi*, *melanocephalus*, *fenestrellanus*, *hummleri*, *schatzmayri*, *dinaricus*, *transversus*, *alpestris*, *austriacus*, *decoratus*; [**Note:** This is the original description for *Dimorphoschelus* but the name was unavailable because the author failed to designate a type species (Article 13.3). A type species was designated by Blackwelder, 1952]).
- Zanetti, 1987: 388, 413 (subgenus of *Anthophagus*; characters; habitus; key to species of Italy).

*abbreviatus* Fabricius, 1779, see: *angusticollis* Mannerheim, 1830.

**advena** Gistel, 1857: 89 (*Anthophagus*; [**Note:** *Nomen dubium*]; Type locality: Alpes Longobardiae).

▲ **DISTRIBUTION:** ?.

*aemulus* Rosenhauer, 1847, see: *Hygrogeus*.

**aeneicollis** Fauvel, 1873b: 120 [= 1873c: 13] (*Anthophagus*; Type locality: Gap; [**Note:** See lectotype designation by Zanetti, 1986]).

- Mulsant and Rey, 1880: 17 (*Anthophagus*; characters; France).
- Ganglbauer, 1895: 706 (*Anthophagus*; characters; western Alps).
- Luze, 1902d: 514 (*Anthophagus*; characters; western Alps).
- Bernhauer and Schubert, 1910: 78 (*Anthophagus*; catalog).
- Portevin, 1929: 434 (*Anthophagus*; characters; France).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; catalog).
- C. Koch, 1933a: 142, 143 (*Anthophagus*; subgenus *Anthophagus*; figure).
- C. Koch, 1934a: 181 (*Anthophagus*; subgenus *Anthophagus*; characters; France; Switzerland; Austria).
- Horion, 1935: 168 (*Anthophagus*; characters; western Alps; Germany).

- Horion, 1963: 143 (*Anthophagus*; subgenus *Anthophagus*; France; Italy; Switzerland; Germany; Austria).
- Lohse, 1964: 65 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).
- Jarrige, 1968b: 76 (*Anthophagus*; France).
- Zanetti, 1986: 97 (*Anthophagus*; lectotype designation).
- Zanetti, 1987: 403 (*Anthophagus*; subgenus *Anthophagus*; characters; Italy).
- Lucht, 1987: 90 (*Anthophagus*; checklist; Germany; Austria).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).

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

*albanicus* Bernhauer, 1926, see: *alpinus* Paykull, 1790.

**alpestris** Heer, 1839: 196 (*Anthophagus*; Type locality: Alp Manigorio Ct. Tessin).

- Redtenbacher, 1849: 745 (*Anthophagus*; synonym of *austriacus*).
- Kraatz, 1857d: 918 (*Anthophagus*; synonym of *austriacus*).
- Fauvel, 1871a: 141 [= 1872: 115] (*Anthophagus*; characters; France; Germany; Switzerland; Italy; Austria).
- Mulsant and Rey, 1880: 37 (*Anthophagus*; characters; France).
- Ganglbauer, 1895: 708 (*Anthophagus*; characters; Alps; Sudeten; Carpathians).
- Luze, 1902d: 512 (*Anthophagus*; characters; Alps; Sudeten; Carpathians; Jura).
- Reitter, 1909: 183 (*Anthophagus*; characters; Germany).
- Bernhauer and Schubert, 1910: 78 (*Anthophagus*; catalog).
- Portevin, 1929: 434 (*Anthophagus*; characters; France).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; catalog).
- C. Koch, 1933a: 142, 143 (*Anthophagus*; subgenus *Dimorphoschelus*; figure).
- C. Koch, 1934a: 234 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; Czechoslovakia; Alps; Hungary; Bosnia; Italy; France).
- Horion, 1963: 149 (*Anthophagus*; subgenus *Dimorphoschelus*; Czech Republic; Slovakia; Romania; Bulgaria; Bosnia Hercegovina; Serbia; Albania; Slovenia; Austria; Italy; France; Germany; Switzerland).
- Lohse, 1964: 67 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; central Europe).
- Tóth, 1982: 95 (*Anthophagus*; characters; Hungary).
- Zanetti, 1984: 79 (*Anthophagus*; Bulgaria).
- Zanetti, 1987: 420 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; Italy).
- Lucht, 1987: 90 (*Anthophagus*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland).
- Schülke and Uhlig, 1988: 3 (*Anthophagus*; Germany).
- Boháč, 1993: 42 (*Anthophagus*; subgenus *Anthophagus*; [**Note:** Incorrect subgeneric assignment; *A. alpestris* is the type species of subgenus *Dimorphoschelus*]; subspecies *alpestris*; Slovakia; Czech Republic).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).

▲ **DISTRIBUTION:** France, Germany, Switzerland, Italy, Austria, Hungary, Czech Republic, Slovakia, Bulgaria, Bosnia Hercegovina.

*austriacus* Erichson, 1840: 849 (*Anthophagus*; Type locality: Austria; Carinthia).

- Kiesenwetter, 1845: 23 (*Anthophagus*; notes).
- Kiesenwetter, 1847a: 55 (*Anthophagus*; characters; Germany; Switzerland).
- Märkel and Kiesenwetter, 1848a: 327 (*Anthophagus*; Carpathian Alps).
- Redtenbacher, 1849: 745 (*Anthophagus*; characters; Austria).
- Fairmaire and Laboulbène, 1856: 628 (*Anthophagus*; characters; France).
- Redtenbacher, 1857: 242 (*Anthophagus*; characters; Austria).
- Kraatz, 1857d: 918 (*Anthophagus*; characters; Austria).
- Fauvel, 1865a: 314 [= 1865b: 64] (*Anthophagus*; habitat; France).
- Fauvel, 1871a: 141 [= 1872: 115] (*Anthophagus*; synonym of *alpestris*).
- Redtenbacher, 1874: 264 (*Anthophagus*; characters; Austria).
- Mulsant and Rey, 1880: 38 (*Anthophagus*; synonym of *alpestris*).
- Ganglbauer, 1895: 708 (*Anthophagus*; synonym of *alpestris*).
- Luze, 1902d: 512 (*Anthophagus*; synonym of *alpestris*).

- Bernhauer and Schubert, 1910: 79 (*Anthophagus*; synonym of *alpestris*).
  - Scheerpeltz, 1933: 1068 (*Anthophagus*; synonym of *alpestris*).
  - C. Koch, 1933a: 142 (*Anthophagus*; synonym of *alpestris*).
  - Zanetti, 1987: 420 (*Anthophagus*; synonym of *alpestris*).
- decoratus* C. Koch, 1933: 30 (*Anthophagus*; named for an aberrant form of *transversus* Motschulsky and cited as *alpestris decoratus*; [**Note: Nomen nudum** (Articles 1.3.4, 45.5); although Koch did not explicitly state that *decoratus* was an aberration he did say that it was named for an aberrant form of *transversus* and in later articles cited it as an aberration]; locality cited: Alpes de la Carniole).
- C. Koch, 1933a: 142 (*Anthophagus*; aberration of *alpestris*; name is replacement for *transversus sensu auctorum*).
  - C. Koch, 1934a: 234 (*Anthophagus*; subgenus *Dimorphoschelus*; aberration of *alpestris*).
  - Tóth, 1982: 95 (*Anthophagus*; aberration of *alpestris*; characters).
  - Zanetti, 1987: 420 (*Anthophagus*; synonym of *alpestris*).
- kochi* Bernhauer, 1935a: 39 (*Anthophagus*; Type locality: Italien: Mte. Arazecca).
- Zanetti, 1986: 96 (*Anthophagus*; subspecies of *alpestris*).
  - Zanetti, 1987: 420 (*Anthophagus*; subgenus *Dimorphoschelus*; subspecies of *alpestris*; characters; Italy).
  - Zanetti, 1995: 9 (*Anthophagus*; subspecies of *alpestris*; Italy).
- alpinus** Paykull, 1790: 134 (*Staphylinus*; [**Note:** This name is older than *alpinus* Fabricius, however, Paykull cited *alpinus* again in 1800 but attributed it to Fabricius so the Fabricius and Paykull species may be the same]; Type locality: Dalicaria, Lapponia).
- Turton, 1802: 512 (*Staphylinus*; characters; Lapland).
  - Latreille, 1806: 297 (*Lesteva*; characters).
  - Fauvel, 1871a: 147 [= 1872: 121] (*Anthophagus*; characters; France; Scandinavia; Britain; Germany; Switzerland; Italy; Austria).
  - J. Sahlberg, 1876: 206 (*Anthophagus*; Finland).
  - Fowler, 1888: 399 (*Anthophagus*; characters; Britain).
  - Pope, 1977: 23 (*Anthophagus*; Britain).
  - Lucht, 1987: 90 (*Anthophagus*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France).
  - Herman, 2001: 19 (*Anthophagus*; synonymy).
- ▲ **DISTRIBUTION:** Europe, Russia.
- alpinus* Fabricius, 1793: 526 (*Staphylinus*; [**preoccupied**]; Type locality: Lapponia).
- Olivier, 1795:(42): 32 (*Staphylinus*; characters).
  - Paykull, 1800: 387 (*Staphylinus*; [**Note:** Paykull attributed the species in this reference to Fabricius and did not mention *alpinus* Paykull, 1790]; characters; Sweden).
  - Fabricius, 1801: 598 (*Staphylinus*; characters; Lapland).
  - Gravenhorst, 1802: 188 (*Anthophagus*; characters).
  - Latreille, 1804: 368 (*Lesteva*; characters; Lapland).
  - Gravenhorst, 1806: 220 (*Anthophagus*; characters).
  - Latreille, 1806: 297 (*Lesteva*; characters).
  - Gyllenhal, 1810: 194 (*Anthophagus*; characters; Sweden).
  - Latreille, 1825a: 216 (*Lesteva*; characters; Lapland).
  - Gyllenhal, 1827: 460 (*Anthophagus*; characters of variety).
  - Zetterstedt, 1828: 46 (*Anthophagus*; characters; Lapland).
  - Curtis, 1830: pl. 303 (*Lesteva*; habitat; Britain).
  - Curtis, 1829: 29 (*Lesteva*; catalog; Britain).
  - Mannerheim, 1830: 56 (*Lesteva*; Finland; Sweden; Lapland).
  - Mannerheim, 1831: 470 (*Lesteva*; Finland; Sweden; Lapland).
  - Runde, 1835: 24 (*Lesteva*; characters; Germany).
  - Zetterstedt, 1838: 48 (*Anthophagus*; characters; habitat; Lapland).
  - Heer, 1839: 196 (*Anthophagus*; characters; Switzerland).
  - Stephens, 1839: 431 (*Lesteva*; characters; England; Scotland).

- Erichson, 1840: 848 (*Anthophagus*; characters; Sweden; Alpius Tyrolensibus; Switzerland; Silesia).
- Kiesenwetter, 1845: 22 (*Anthophagus*; notes).
- Kiesenwetter, 1847a: 53 (*Anthophagus*; characters; Europe).
- Märkel and Kiesenwetter, 1848a: 326 (*Anthophagus*; notes; Carpathian Alps).
- Hochhuth, 1849: 201 (*Anthophagus*; characters; Caucasus; Akhaltzik).
- Redtenbacher, 1849: 745 (*Anthophagus*; characters; Austria).
- Kiesenwetter, 1851a: 433 (*Anthophagus*; Pyrenees).
- Hardy, 1851: 54 (*Anthophagus*; notes; England).
- Fairmaire and Laboulbène, 1856: 626 (*Anthophagus*; characters; France).
- Redtenbacher, 1857: 242 (*Anthophagus*; characters; Austria).
- Kraatz, 1857d: 918 (*Anthophagus*; characters; Germany).
- Thomson, 1859: 48 (type species of *Anthophagus*).
- Thomson, 1861: 179 (*Anthophagus*; characters; Scandinavia).
- Fauvel, 1865a: 314 [= 1865b: 64] (*Anthophagus*; habitat; France).
- Redtenbacher, 1874: 264 (*Anthophagus*; characters; Austria).
- Seidlitz, 1875: 242 (*Anthophagus*; characters; Baltic region).
- Mulsant and Rey, 1880: 19 (*Anthophagus*; characters; France).
- Ganglbauer, 1895: 706 (*Anthophagus*; characters; north and middle Europe; Italy; Bosnia).
- Luze, 1902d: 518 (*Anthophagus*; characters; northern and central Europe; northern Italy).
- Reitter, 1909: 182 (*Anthophagus*; characters; Germany).
- Bernhauer and Schubert, 1910: 79 (*Anthophagus*; catalog).
- Portevin, 1929: 434 (*Anthophagus*; characters; France).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; catalog).
- C. Koch, 1933a: 142 (*Anthophagus*; subgenus *Anthophagus*).
- C. Koch, 1934a: 196 (*Anthophagus*; subgenus *Anthophagus*; characters; Lapland; Russia; Norway; Sweden; Sudeten; Tatra; Hungary; Alps; Italy; England; Scotland; Ireland; Switzerland; France).
- Palm, 1948: 124 (*Anthophagus*; characters; Sweden; Norway; Finland).
- Horion, 1963: 144 (*Anthophagus*; subgenus *Anthophagus*; Britain; Norway; Sweden; Finland; Russia; Czech Republic; Slovakia; Romania; Italy; France; Austria; Germany).
- Lohse, 1964: 65 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).
- Hammond, 1980: 136 (*Anthophagus*; Ireland).
- Tóth, 1982: 93 (*Anthophagus*; characters; Hungary).
- Zanetti, 1987: 407 (*Anthophagus*; subgenus *Anthophagus*; characters; Italy).
- Boháč, 1993: 41 (*Anthophagus*; subgenus *Dimorphoschelus*; [**Note**: Incorrect subgeneric assignment; *A. alpinus* is the type species of subgenus *Anthophagus*]; Slovakia; Czech Republic).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).
- Herman, 2001: 19 (*Anthophagus*; synonym of *alpinus*).
- mandibularis* Gyllenhal, 1827: 460 (*Anthophagus*; Type locality: Lapponia).
  - C. Sahlberg, 1827: 275 (*Anthophagus*; characters; Lapland).
  - Erichson, 1840: 848 (*Anthophagus*; synonym of *alpinus*).
  - Kraatz, 1857d: 919 (*Anthophagus*; synonym of *alpinus*).
  - Thomson, 1861: 179 (*Anthophagus*; synonym of *alpinus*).
  - J. Sahlberg, 1876: 206 (*Anthophagus*; synonym of *alpinus*).
  - Mulsant and Rey, 1880: 20 (*Anthophagus*; synonym of *alpinus*).
  - Ganglbauer, 1895: 706 (*Anthophagus*; synonym of *alpinus*).
  - Luze, 1902d: 518 (*Anthophagus*; synonym of *alpinus*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; synonym of *alpinus*).
  - C. Koch, 1933a: 142 (*Anthophagus*; synonym of *alpinus*).
  - Pope, 1977: 23 (*Anthophagus*; synonym of *alpinus*).
- lapponicus* C. Sahlberg, 1827: 275 (*Anthophagus*; Type locality: Lapponia).
  - Mannerheim, 1830: 56 (*Lesteva*; [**Note**: Mannerheim cited *lapponica* as his but at the same time attributed it to C. Sahlberg]; Lapland).
  - Mannerheim, 1831: 470 (*Lesteva*; [**Note**: Mannerheim cited *lapponica* as his but at the same time attributed it to C. Sahlberg]; Lapland).

- Zetterstedt, 1838: 47 (*Anthophagus*; characters; Lapland).
  - Erichson, 1840: 849 (*Anthophagus*; synonym of *alpinus*).
  - Redtenbacher, 1849: 745 (*Anthophagus*; synonym of *alpinus*).
  - Kraatz, 1857d: 919 (*Anthophagus*; synonym of *alpinus*).
  - J. Sahlberg, 1876: 206 (*Anthophagus*; synonym of *alpinus*).
  - Ganglbauer, 1895: 706 (*Anthophagus*; synonym of *alpinus*).
  - Luze, 1902d: 518 (*Anthophagus*; synonym of *alpinus*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; synonym of *alpinus*).
  - C. Koch, 1933a: 142 (*Anthophagus*; synonym of *alpinus*).
- maxillosus* Zetterstedt, 1828: 45 (*Anthophagus*; Type locality: insula Reenoe: Finkrog, Lyngentind. Nordlandiae).
- Zetterstedt, 1838: 48 (*Anthophagus*; characters; habitat; Lapland).
  - Erichson, 1840: 848 (*Anthophagus*; synonym of *alpinus*).
  - Kraatz, 1857d: 919 (*Anthophagus*; synonym of *alpinus*).
  - Thomson, 1861: 179 (*Anthophagus*; synonym of *alpinus*).
  - Ganglbauer, 1895: 706 (*Anthophagus*; synonym of *alpinus*).
  - Luze, 1902d: 518 (*Anthophagus*; synonym of *alpinus*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; synonym of *alpinus*).
- flavipennis* Lacordaire, 1835: 480 (*Lesteva*; Type locality: Paris).
- Erichson, 1840: 849 (*Anthophagus*; synonym of *alpinus*).
  - Fairmaire and Laboulbène, 1856: 626 (*Anthophagus*; synonym of *alpinus*).
  - Kraatz, 1857d: 919 (*Anthophagus*; synonym of *alpinus*).
  - Ganglbauer, 1895: 706 (*Anthophagus*; synonym of *alpinus*).
  - Luze, 1902d: 518 (*Anthophagus*; synonym of *alpinus*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; synonym of *alpinus*).
  - C. Koch, 1933a: 142 (*Anthophagus*; synonym of *alpinus*).
- pyrenaicus* Brisout, 1863: 41 (*Anthophagus*, cited as *Antophagus*; Type locality: Mont-Louis).
- Fauvel, 1871a: 146 [= 1872: 120] (*Anthophagus*; characters; France).
  - Fauvel, 1873b: 120 [= 1873c: 13] (*Anthophagus*; Spain).
  - Redtenbacher, 1874: 265 (*Anthophagus*; characters; Austria).
  - Mulsant and Rey, 1880: 22 (*Anthophagus*; characters; France).
  - Luze, 1902d: 519 (*Anthophagus*; characters; Pyrenees; Cantabrian region).
  - Portevin, 1929: 434 (*Anthophagus*; characters; France).
  - Scheerpeltz, 1933: 1069 (*Anthophagus*; catalog).
  - C. Koch, 1933a: 142 (*Anthophagus*; subspecies of *alpinus*).
  - C. Koch, 1934a: 196 (*Anthophagus*; subgenus *Anthophagus*; race of *alpinus*; Pyrenees).
  - C. Koch, 1940: 374 (*Anthophagus*; subspecies of *alpinus*; Spain).
  - Zanetti, 1987: 407 (*Anthophagus*; subgenus *Anthophagus*; subspecies of *alpinus*; characters).
  - Tronquet, 1998a: 114 (*Anthophagus*; cited as valid species; collected from marmot burrow; France).
- bosnicus* Bernhauer, 1901: 539 (*Anthophagus*; Type locality: Sarajevo auf der Bjelasnica in Bosnien).
- Luze, 1902d: 519 (*Anthophagus*; characters; Bosnia).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; catalog).
  - C. Koch, 1933a: 142 (*Anthophagus*; subspecies of *alpinus*).
  - C. Koch, 1934a: 196 (*Anthophagus*; subgenus *Anthophagus*; Bosnia; Hercegowina).
  - Zanetti, 1987: 407 (*Anthophagus*; subgenus *Anthophagus*; subspecies of *alpinus*; characters).
- albanicus* Bernhauer, 1926: 267 (*Anthophagus*; Type locality: Korab in Albanien).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; catalog).
  - C. Koch, 1933a: 142 (*Anthophagus*; subspecies of *alpinus*).
  - C. Koch, 1934a: 197 (*Anthophagus*; subgenus *Anthophagus*; race of *alpinus*; Albania; Bulgaria).
  - Zanetti, 1984: 79 (*Anthophagus*; subspecies of *alpinus*; Bulgaria).
  - Zanetti, 1987: 407 (*Anthophagus*; subgenus *Anthophagus*; subspecies of *alpinus*; characters).

- speculicollis* C. Koch, 1933: 29 (*Anthophagus*; variety of *alpinus*; Type locality: Alpi della Carinzia, Dobratsch).  
 — C. Koch, 1933a: 142 (*Anthophagus*; aberration of *alpinus*).  
 — C. Koch, 1934a: 197 (*Anthophagus*; subgenus *Anthophagus*; aberration of *alpinus*).
- pseudosudeticus* C. Koch, 1934a: 197, 200 (*Anthophagus*; subgenus *Anthophagus*; aberration of *alpinus*; [**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; locality not cited).  
 — Tóth, 1982: 93 (*Anthophagus*; variety of *alpinus*; characters).
- aprutianus* C. Koch, 1934a: 197, 201 (*Anthophagus*; subgenus *Anthophagus*; race of *alpinus*; Type locality: Abruzzo, Gran Sasso, Fonte Portella).  
 — Zanetti, 1987: 407 (*Anthophagus*; subgenus *Anthophagus*; subspecies of *alpinus*; characters; Italy).  
 — Zanetti, 1995: 9 (*Anthophagus*; subspecies of *alpinus*; Italy).
- paratus* Havelka and R. Dvořák, 1953: 27 (*Anthophagus*; aberration of *alpinus*; [**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; locality cited: Carp.: Pol. Borsava).
- fischeri* Havelka and R. Dvořák, 1953: 27 (*Anthophagus*; aberration of *alpinus*; [**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; locality cited: Carniola: Silesia: Krnov).
- alpinus* Fabricius, 1793, see: *alpinus* Paykull, 1790.
- angusticollis** Mannerheim, 1830: 56 (*Lesteva*; Type locality: circa Petropolin).  
 — Mannerheim, 1831: 470 (*Lesteva*; Russia).  
 — Erichson, 1840: 850 (*Anthophagus*; synonym of *abbreviatus*).  
 — Erichson, 1840: 850 (*Anthophagus*; [**Note: Misidentified as caraboides** according to Bernhauer and Schubert, 1916: 78, who cited it as a synonym of *angusticollis*]; characters; Europe).  
 — Kraatz, 1857d: 923 (*Anthophagus*; synonym of *caraboides*).  
 — Kraatz, 1857d: 922 (*Anthophagus*; [**Note: Misidentified as caraboides** according to Bernhauer and Schubert, 1916: 78]; characters; Germany).  
 — Thomson, 1861: 180 (*Anthophagus*; [**Note: Misidentified as caraboides** according to Bernhauer and Schubert, 1916: 78]; characters; Scandinavia).  
 — Fauvel, 1871a: 142 [= 1872: 116] (*Anthophagus*; [**Note: Misidentified as caraboides** according to Bernhauer and Schubert, 1916: 78]; characters; France; Scandinavia; Britain; Germany; Switzerland; Italy; Austria; Russia).  
 — J. Sahlberg, 1876: 207 (*Anthophagus*; synonym of *abbreviatus*).  
 — Mulsant and Rey, 1880: 30 (*Anthophagus*; synonym of *caraboides*).  
 — Mulsant and Rey, 1880: 29 (*Anthophagus*; [**Note: Misidentified as caraboides** according to Bernhauer and Schubert, 1916: 78]; characters; France).  
 — Ganglbauer, 1895: 708 (*Anthophagus*; synonym of *abbreviatus*).  
 — Luze, 1902d: 516 (*Anthophagus*; synonym of *abbreviatus*).  
 — Bernhauer and Schubert, 1910: 78 (*Anthophagus*; synonym of *abbreviatus*).  
 — Portevin, 1929: 435 (*Anthophagus*; [**Note: Misidentified as caraboides** according to Zanetti, 1987: 414]; characters; France).  
 — C. Koch, 1933a: 142 (*Anthophagus*; subgenus *Dimorphoschelus*).  
 — C. Koch, 1934a: 214 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; Finland; Russia; Germany; Czechoslovakia; Poland; Hungary; Croatia; Istria; Bosnia; Dalmatia; Italy; Belgium; France).  
 — Horion, 1963: 146 (*Anthophagus*; subgenus *Dimorphoschelus*; Caucasus; Siberia; Russia; Finland; Baltic States; Poland; Czechoslovakia; Hungary; Romania; Bosnia Hercegovina; Dalmatia; Croatia; Slovenia; Italy; France; Switzerland; Belgium Holland; Austria; Germany).  
 — Lohse, 1964: 67 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; central Europe).  
 — Scheerpeltz, 1968a: 18 (*Anthophagus*; catalog; Austria).  
 — Tikhomirova, 1973a: 141 (*Anthophagus*; subgenus *Dimorphoschelus*; checklist; USSR).  
 — Muona, 1979: 18 (*Anthophagus*; Finland; Russia; Baltic States).  
 — Burakowski, Mroczkowski, and Stefańska, 1979: 75 (*Anthophagus*; catalog; Poland).  
 — Tóth, 1980: 98 (*Anthophagus*; subgenus *Dimorphoschelus*; Hungary).  
 — Tóth, 1982: 97 (*Anthophagus*; characters; Hungary).  
 — Friebe, 1983: 50 (*Anthophagus*; habitat notes; Germany).



- Terlutter, 1984: 34, 43 (*Anthophagus*; notes; Germany).
- Renner, 1985: 99 (*Anthophagus*; collecting notes; Germany).
- Muona and Viramo, 1986: 16 (*Anthophagus*; Finland).
- Segers, 1986: 23 (*Anthophagus*; Belgium).
- Zanetti, 1987: 414 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; Italy).
- Lucht, 1987: 90 (*Anthophagus*; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux).
- Köhler, 1988: 163 (*Anthophagus*; notes; Germany).
- K. Koch, 1989: 236 (*Anthophagus*; habitat).
- Detner and Reissenweber, 1991 (*Anthophagus*; defensive secretions: chemistry and systematics).
- Silfverberg, 1992: 22 (*Anthophagus*; Finland; Russia; Estonia; Latvia; Lithuania).
- K. Koch, 1992: 36 (*Anthophagus*; cited as *angulicollis*; Germany).
- Janák, 1992: 85 (*Anthophagus*; Czech Republic).
- Boháč, 1993: 42 (list of species of Czech Republic and Slovakia).
- Kocian, 1993b: 92 (*Anthophagus*; Czech Republic).
- Boháč, 1993: 42 (*Anthophagus*; subgenus *Anthophagus*; Slovakia; Czech Republic).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).
- Ádám, 1996: 239 (*Lesteva*; Hungary).
- Böhme, 1996: 46 (*Anthophagus*; humus collection; Germany; Austria).
- Telnov, Bersevskis, Savich, Kovalevsky, Berdnikov, Doronin, Cibulskis, and Ratniece, 1997: 44 (*Anthophagus*; Latvia).
- Köhler, 1998: 159 (*Anthophagus*; collecting notes; Germany).
- Pašnik, 1998: 69 (*Anthophagus*; habitat; Poland).
- Cibulskis, 1999: 36 (*Anthophagus*; list; Latvia).
- Herman, 2001: 19 (*Anthophagus*; discussion; has two older synonyms; prevailing use as valid maintained pending outcome of application to Commission under Article 23.9.3).

▲ **DISTRIBUTION:** Europe, Russia, Georgia.

*fulvus* De Geer, 1774: 25 (*Staphylinus*; [**Note:** This name is older than *angusticollis* but the synonymy needs verification since only Koch in 1933 has listed *fulvus* as a synonym of *angusticollis*]; Type locality: Not cited).

- Paykull, 1789: 18 (*Staphylinus*; synonym of *caraboides* Linné).
- Gmelin, 1790: 2029 (*Staphylinus*; synonym of *caraboides*).
- Olivier, 1795:(42): 22 (*Staphylinus*; synonym of *caraboides* Linné).
- Marsham, 1802: 521 (*Staphylinus*; synonym of *caraboides* Linné).
- Gravenhorst, 1806: 221 (*Anthophagus*).
- Gyllenhal, 1810: 192 (*Anthophagus*; synonym of *caraboides*).
- Curtis, 1830: pl. 303 (*Lesteva*; synonym of *caraboides*).
- Erichson, 1840: 850 (*Anthophagus*; synonym of *caraboides*).
- Kraatz, 1857d: 923 (*Anthophagus*; synonym of *caraboides*).
- Luze, 1902d: 525 (*Anthophagus*; synonym of *caraboides*).
- C. Koch, 1933a: 142 (*Anthophagus*; synonym of *angusticollis*).

*abbreviatus* Fabricius, 1779: 263 (*Carabus*; [**Note:** This name is older than *angusticollis*]; Type locality: Norwegen: Drontheim).

- Panzer, 1795: 367 (*Carabus*; characters; Germany).
- Panzer, 1796d: 2 (*Carabus*; characters; illustrations).
- Latreille, 1804: 367 (*Lesteva*; synonym of *caraboides* Linné).
- Panzer, 1808a: 2 (*Carabus*; characters; illustrations).
- Erichson, 1839a: 615 (*Anthophagus*; [**Note:** Misidentification: Bernhauer and Schubert, 1910: 78 cited *caraboides* Erichson as a synonym of *abbreviatus* Fabricius; Erichson did not describe the species as new, he attributed it to Linné]; characters; Germany).
- Erichson, 1840: 850 (*Anthophagus*; characters; Europe).
- Kiesenwetter, 1847a: 57 (*Anthophagus*; characters; Europe).
- Redtenbacher, 1849: 746 (*Anthophagus*; characters; Austria).
- Fairmaire and Laboulbène, 1856: 629 (*Anthophagus*; characters; France).
- Redtenbacher, 1857: 243 (*Anthophagus*; characters; Austria).

- Fauvel, 1869: 493 (*Anthophagus*; synonym of *caraboides*).
- Fauvel, 1871a: 143 [= 1872: 117] (*Anthophagus*; synonym of *caraboides*).
- Redtenbacher, 1874: 265 (*Anthophagus*; characters; Austria).
- J. Sahlberg, 1876: 207 (*Anthophagus*; Finland).
- Mulsant and Rey, 1880: 30 (*Anthophagus*; synonym of *caraboides*).
- Ganglbauer, 1895: 708 (*Anthophagus*; characters; north and middle Europe; Caucasus).
- Luze, 1902d: 516 (*Anthophagus*; characters; central and northern Europe; Caucasus).
- Reitter, 1909: 183 (*Anthophagus*; characters; Germany).
- Bernhauer and Schubert, 1910: 78 (*Anthophagus*; catalog).
- Scheerpeltz, 1933: 1067 (*Anthophagus*; catalog).
- C. Koch, 1933a: 141 (*Anthophagus*; synonym of *caraboides*).
- Lohse, 1964: 67 (*Anthophagus*; synonym of *angusticollis*).
- Zanetti, 1987: 414 (*Anthophagus*; synonym of *angusticollis*).

*gracilis* Heer, 1841: 573 (*Anthophagus*; Type locality: Helvetia occidentalis: Jorat, Châlet à Gobet).

- Fauvel, 1871a: 143 [= 1872: 117] (*Anthophagus*; synonym of *caraboides*).
- Ganglbauer, 1895: 708 (*Anthophagus*; synonym of *abbreviatus*).
- Luze, 1902d: 516 (*Anthophagus*; synonym of *abbreviatus*).
- Bernhauer and Schubert, 1910: 78 (*Anthophagus*; synonym of *abbreviatus*).
- C. Koch, 1933a: 142 (*Anthophagus*; synonym of *angusticollis*).

*obscuriceps* Motschulsky, 1860: 551 (*Anthophagus*; Type locality: Montagnes de Douderhoff aux environs de St. Petersbourg).

- Fauvel, 1871a: 143 [= 1872: 117] (*Anthophagus*; synonym of *caraboides*).
- Ganglbauer, 1895: 708 (*Anthophagus*; synonym of *abbreviatus*).
- Luze, 1902d: 516 (*Anthophagus*; synonym of *abbreviatus*).
- Bernhauer and Schubert, 1910: 78 (*Anthophagus*; synonym of *abbreviatus*).
- C. Koch, 1933a: 142 (*Anthophagus*; synonym of *angusticollis*).

*fascifer* Reitter, 1888: 150 (*Anthophagus*; variety of *abbreviatus*; Type locality: Circassien).

- Ganglbauer, 1895: 708 (*Anthophagus*; aberration of *abbreviatus*).
- Luze, 1902d: 516 (*Anthophagus*; synonym of *abbreviatus*).
- Bernhauer and Schubert, 1910: 78 (*Anthophagus*; aberration of *abbreviatus*).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; aberration of *abbreviatus*).
- C. Koch, 1933a: 142 (*Anthophagus*; aberration of *angusticollis*).
- Tóth, 1982: 97 (*Anthophagus*; aberration of *angusticollis*; characters).

*roubali* C. Koch, 1934a: 214, 218 (*Anthophagus*; subgenus *Dimorphoschelus*; race of *angusticollis*; Type locality: Kaukasus: Taberda, Abchasie, Kuban, Wladikavkas).

- Zanetti, 1987: 414 (*Anthophagus*; subgenus *Dimorphoschelus*; subspecies of *angusticollis*; characters; Italy).

*apenninus* Baudi, 1870: 401 (*Anthophagus*; Type locality: Etruscis Apenninis; [**Note:** See lectotype designation by Zanetti, 1986]).

- Fauvel, 1871a: 145 [= 1872: 119] (*Anthophagus*; characters; Italy).
- Luze, 1902d: 514 (*Anthophagus*; characters; Apennines).
- Bernhauer and Schubert, 1910: 79 (*Anthophagus*; catalog).
- C. Koch, 1933: 28 (*Anthophagus*; characters).
- C. Koch, 1933a: 142, 143 (*Anthophagus*; subgenus *Anthophagus*; figure).
- C. Koch, 1934a: 183 (*Anthophagus*; subgenus *Anthophagus*; characters; Italy).
- Zanetti, 1986: 97 (*Anthophagus*; lectotype designation).
- Zanetti, 1987: 404 (*Anthophagus*; subgenus *Anthophagus*; characters; Italy).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).

▲ **DISTRIBUTION:** Italy.

*apfelbecki* Bernhauer, 1914d: 1 (*Anthophagus*; Type locality: Schar Dag, Ljuboten in Albanien).

- Bernhauer, 1923d: 176 (*Anthophagus*; characters; Albania).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; catalog).

- C. Koch, 1933a: 142 (*Anthophagus*; subgenus *Dimorphoschelus*).
- C. Koch, 1934a: 220 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; Albania).

▲ **DISTRIBUTION:** Albania.

*aprutianus* C. Koch, 1934, see: *alpinus* Fabricius, 1793.

*aquatilis* Sharp, 1889, see: *Philydrodes*.

*aquilonaris* C. Koch, 1940, see: *caraboides* Linné, 1758.

*armiger* Gravenhorst, 1802, see: *bicornis* Block, 1799.

*arpedinus* Hochhuth, 1849, see: *omalinus* Zetterstedt, 1828.

*arrowi* C. Koch, 1933, see: *omalinus* Zetterstedt, 1828.

*austriacus* Erichson, 1840, see: *alpestris* Heer, 1839.

**baikalensis** Yablokov-Khznorian, 1974: 62 (*Anthophagus*; subgenus *Phaganthus*; Type locality: Baikal, Listvennoe, Limnologicheskii Institut).

▲ **DISTRIBUTION:** Russia.

**bellicanus** Gistel, 1857: 74 (*Anthophagus*; [**Note: Nomen dubium**]; Type locality: Tyrolis).

▲ **DISTRIBUTION:** Austria.

**bicolor** Grimmer, 1841: 34 (*Anthophagus*; [**Note: Nomen dubium**]; Type locality: Steiermark).

▲ **DISTRIBUTION:** Austria.

**bicornis** Block, 1799: 118 (*Staphylinus*; Type locality: Plauscher Grund bei Dresden).

- Erichson, 1840: 848 (*Anthophagus*; synonym of *armiger*).
- Redtenbacher, 1849: 746 (*Anthophagus*; synonym of *armiger*).
- Kraatz, 1857d: 916 (*Anthophagus*; synonym of *armiger*).
- Fauvel, 1871a: 144 [= 1872: 118] (*Anthophagus*; characters; France; Belgium; Scandinavia; Germany; Switzerland; Italy; Austria).
- Fauvel, 1873b: 119 [= 1873c: 12] (*Anthophagus*; Sardinia).
- Mulsant and Rey, 1880: 13 (*Anthophagus*; synonym of *armiger*).
- Ganglbauer, 1895: 706 (*Anthophagus*; characters; middle Europe; Italy).
- Luze, 1902d: 513 (*Anthophagus*; characters; central Europe; northern Italy).
- Reitter, 1909: 182 (*Anthophagus*; characters; Germany).
- Bernhauer and Schubert, 1910: 79 (*Anthophagus*; catalog).
- Portevin, 1929: 434 (*Anthophagus*; characters; France).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; catalog).
- C. Koch, 1933a: 141, 143 (*Anthophagus*; subgenus *Anthophagus*; figure).
- C. Koch, 1934a: 176 (*Anthophagus*; subgenus *Anthophagus*; characters; Holland; Germany; Czechoslovakia; Austria; Italy; France; Bosnia; Herzegovina; Bulgaria; Hungary; Croatia).
- Horion, 1963: 143 (*Anthophagus*; subgenus *Anthophagus*; Belgium; France; Switzerland; Italy; Bosnia Hercegovina; Serbia; Macedonia; Albania; Bulgaria; Romania; Hungary; Czechoslovakia; Poland; Austria; Germany).
- Lohse, 1964: 66 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).
- Tóth, 1982: 93 (*Anthophagus*; characters; Hungary).
- Zanetti, 1984: 79 (*Anthophagus*; Bulgaria).
- Zanetti, 1987: 401 (*Anthophagus*; subgenus *Anthophagus*; characters; Italy).
- Lucht, 1987: 90 (*Anthophagus*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux).
- Boháč, 1993: 42 (*Anthophagus*; subgenus *Dimorphoschelus*; Slovakia; Czech Republic).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).
- Zerche, 2000: 52 (*Anthophagus*).

▲ **DISTRIBUTION:** Europe.

*armiger* Gravenhorst, 1802: 122 (*Anthophagus*; Type locality: Not cited, but presumably Brunsvigae).

- Latreille, 1804: 368 (*Lesteva*; cited as *armigera*; characters; Germany).
- Gravenhorst, 1806: 221 (*Anthophagus*).

- Heer, 1839: 197 (*Anthophagus*; characters; Switzerland).
  - Erichson, 1840: 848 (*Anthophagus*; characters; Germany).
  - Kiesenwetter, 1845: 21 (*Anthophagus*; notes).
  - Kiesenwetter, 1848: 64 (*Anthophagus*; characters; Sweden; Germany; Switzerland).
  - Märkel and Kiesenwetter, 1848a: 326 (*Anthophagus*; notes; Carpathian Alps).
  - Redtenbacher, 1849: 746 (*Anthophagus*; characters; Austria).
  - Fairmaire and Laboulbène, 1856: 626 (*Anthophagus*; characters; France).
  - Redtenbacher, 1857: 243 (*Anthophagus*; characters; Austria).
  - Kraatz, 1857d: 916 (*Anthophagus*; characters; Germany).
  - Fauvel, 1865a: 314 [= 1865b: 64] (*Anthophagus*; habitat; France).
  - Fauvel, 1871a: 144 [= 1872: 118] (*Anthophagus*; synonym of *bicornis*).
  - Redtenbacher, 1874: 264 (*Anthophagus*; characters; Austria).
  - Mulsant and Rey, 1880: 13 (*Anthophagus*; characters; France).
  - Ganglbauer, 1895: 706 (*Anthophagus*; synonym of *bicornis*).
  - Luze, 1902d: 513 (*Anthophagus*; synonym of *bicornis*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; synonym of *bicornis*).
  - Scheerpeltz, 1933: 1068 (*Anthophagus*; synonym of *bicornis*).
  - C. Koch, 1933a: 141 (*Anthophagus*; synonym of *bicornis*).
  - Zanetti, 1987: 401 (*Anthophagus*; synonym of *bicornis*).
- nivalis* Mulsant and Rey, 1880: 15 (*Anthophagus*; Type locality: Chamonix).
- Ganglbauer, 1895: 706 (*Anthophagus*; aberration of *bicornis*).
  - Luze, 1902d: 513 (*Anthophagus*; aberration of *bicornis*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; aberration of *bicornis*).
  - Rambousek, 1927: 77 (*Anthophagus*; aberration of *bicornis*; characters).
  - Scheerpeltz, 1933: 1068 (*Anthophagus*; aberration of *bicornis*).
  - C. Koch, 1933a: 141 (*Anthophagus*; aberration of *bicornis*).
  - C. Koch, 1934a: 177 (*Anthophagus*; subgenus *Anthophagus*; aberration of *bicornis*).
  - Tóth, 1982: 93 (*Anthophagus*; aberration of *bicornis*; characters; Hungary).
- marginicollis* Eppelsheim, 1889: 181 (*Anthophagus*; variety of *bicornis*; Type locality: Croatiën).
- Ganglbauer, 1895: 706 (*Anthophagus*; aberration of *bicornis*).
  - Luze, 1902d: 513 (*Anthophagus*; aberration of *bicornis*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; aberration of *bicornis*).
  - Rambousek, 1927: 77 (*Anthophagus*; aberration of *bicornis*; characters).
  - C. Koch, 1933a: 141 (*Anthophagus*; aberration of *bicornis*).
  - C. Koch, 1934a: 177 (*Anthophagus*; subgenus *Anthophagus*; aberration of *bicornis*).
  - Tóth, 1982: 93 (*Anthophagus*; aberration of *bicornis*; characters; Hungary).
- nigrinus* Eppelsheim, 1889: 181 (*Anthophagus*; variety of *bicornis*; Type locality: Saas).
- Ganglbauer, 1895: 706 (*Anthophagus*; aberration of *bicornis*).
  - Luze, 1902d: 513 (*Anthophagus*; aberration of *bicornis*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; aberration of *bicornis*).
  - Rambousek, 1927: 77 (*Anthophagus*; aberration of *bicornis*; characters).
  - Scheerpeltz, 1933: 1068 (*Anthophagus*; aberration of *bicornis*).
  - C. Koch, 1933a: 141 (*Anthophagus*; aberration of *bicornis*).
  - C. Koch, 1934a: 177 (*Anthophagus*; subgenus *Anthophagus*; aberration of *bicornis*).
  - Tóth, 1982: 93 (*Anthophagus*; aberration of *bicornis*; characters).
- subfasciatus* Luze, 1902d: 513 (*Anthophagus*; aberration of *bicornis*; [Note: **Nomen nudum** (Articles 1.3.4, 45.5)]; no locality cited).
- Bernhauer and Schubert, 1910: 79 (*Anthophagus*; aberration of *bicornis*).
  - C. Koch, 1933a: 141 (*Anthophagus*; aberration of *bicornis*).
  - C. Koch, 1934a: 177 (*Anthophagus*; subgenus *Anthophagus*; aberration of *bicornis*).
  - Tóth, 1982: 93 (*Anthophagus*; aberration of *bicornis*; characters).
- obenbergeri* Rambousek, 1927: 77 (*Anthophagus*; aberration of *bicornis*; [Note: **Nomen nudum** (Articles 1.3.4, 45.5)]; locality cited: Krkonoše Bohemiae).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; aberration of *bicornis*).

- C. Koch, 1933a: 141 (*Anthophagus*; aberration of *bicornis*).
- C. Koch, 1934a: 177 (*Anthophagus*; subgenus *Anthophagus*; aberration of *bicornis*).
- solarii* C. Koch, 1934a: 177, 179 (*Anthophagus*; subgenus *Anthophagus*; race of *bicornis*);  
Type locality: Gubbio; Monte Pollino, Lucania.
- Zanetti, 1987: 402 (*Anthophagus*; synonym of *bicornis*).
- inexpectatus* Havelka and R. Dvořák, 1953: 26 (*Anthophagus*; aberration of *bicornis*);  
[**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; locality cited: Bohemia: Krkonose, Iserwiese).
- carpathicus* Havelka and R. Dvořák, 1953: 26 (*Anthophagus*; aberration of *bicornis*); [**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; locality cited: Carp. or.: Pop Ivan).
- bimaculatus* Lacordaire, 1835, see: *praeustus* P. W. J. Müller, 1821.
- bosnicus* Bernhauer, 1901, see: *alpinus* Fabricius, 1793.
- brevicornis* Kiesenwetter, 1861, see: *rotundicollis* Heer, 1839.
- brunneus* Say, 1823, see: *Geodromicus*.
- caesus* Erichson, 1840, see: *Geodromicus*.
- caliginosus* Sharp, 1889, see: *Geodromicus*.
- caprai* C. Koch, 1933, see: *fauveli* Luze, 1902.
- caraboides** Linné, 1758: 422 (*Staphylinus*; Type locality: Europa).
  - Linné, 1760: 233 (*Staphylinus*; characters; Sweden).
  - Linné, 1767: 685 (*Staphylinus*; characters; Europe).
  - Fabricius, 1775: 267 (*Staphylinus*; characters; Europe).
  - Goeze, 1777: 720 (*Staphylinus*; characters).
  - Schrank, 1781: 234 (*Staphylinus*; characters; Austria).
  - Fabricius, 1781: 337 (*Staphylinus*; characters; Europe).
  - Fabricius, 1787: 222 (*Staphylinus*; characters).
  - Paykull, 1789: 19 (*Staphylinus*; redescription; Sweden).
  - Villers, 1789: 417 (*Staphylinus*; characters; France).
  - Gmelin, 1790: 2029 (*Staphylinus*; characters).
  - Fabricius, 1793: 530 (*Staphylinus*; characters).
  - Olivier, 1795:(42): 22 (*Staphylinus*; characters; France, Sweden).
  - Panzer, 1795: 358 (*Staphylinus*; characters; Germany).
  - Cederhjelm, 1798: 119 (*Staphylinus*; characters).
  - Paykull, 1800: 386 (*Staphylinus*; characters; Sweden).
  - Fabricius, 1801: 601 (*Staphylinus*; characters).
  - Turton, 1802: 514 (*Staphylinus*; characters; Europe).
  - Gravenhorst, 1802: 120 (*Anthophagus*; characters).
  - Marsham, 1802: 521 (*Staphylinus*; characters; Britain).
  - Latreille, 1804: 367 (*Lesteva*; characters).
  - Gravenhorst, 1806: 220 (*Anthophagus*).
  - Gyllenhal, 1810: 192 (*Anthophagus*; characters).
  - Gyllenhal, 1827: 460 (*Anthophagus*).
  - C. Sahlberg, 1827: 274 (*Anthophagus*; characters; Finland).
  - Zetterstedt, 1828: 45 (*Anthophagus*; characters; Lapland).
  - Curtis, 1829: 29 (*Lesteva*; catalog; Britain).
  - Curtis, 1830: pl. 303 (*Lesteva*; type species of *Lesteva*; Britain).
  - Mannerheim, 1830: 55 (*Lesteva*; Finland).
  - Mannerheim, 1831: 469 (*Lesteva*; Finland).
  - Stephens, 1834: 360 (*Lesteva*; characters; England; Scotland).
  - Runde, 1835: 23 (*Lesteva*; characters; Germany).
  - Lacordaire, 1835: 480 (*Lesteva*; characters; France).
  - Westwood, 1838a: 18 (*Lesteva*; type species).
  - Zetterstedt, 1838: 47 (*Anthophagus*; characters; habitat; Lapland).
  - Heer, 1839: 195 (*Anthophagus*; characters; Switzerland).

- Stephens, 1839: 431 (*Lesteva*; characters; England; Scotland).
- Laporte, 1840: 192 (*Anthophagus*; characters; France).
- Westwood, 1845: 52 (*Lesteva*; subgenus *Anthophagus*; characters; notes).
- Kiesenwetter, 1847a: 56 (*Anthophagus*; characters; Europe).
- Redtenbacher, 1849: 746 (*Anthophagus*; characters; Austria).
- Hardy, 1851: 54 (*Anthophagus*; notes; England).
- Fairmaire and Laboulbène, 1856: 627 (*Anthophagus*; characters; France).
- Redtenbacher, 1857: 243 (*Anthophagus*; characters; Austria).
- Fauvel, 1865a: 315 [= 1865b: 65] (*Anthophagus*; habitat; France).
- Redtenbacher, 1874: 265 (*Anthophagus*; characters; Austria).
- Seidlitz, 1875: 242 (*Anthophagus*; characters; Baltic region).
- J. Sahlberg, 1876: 207 (*Anthophagus*; Finland).
- Fowler, 1888: 399 (*Anthophagus*; synonym of *testaceus*).
- Ganglbauer, 1895: 709 (*Anthophagus*; subgenus *Phaganthus*; characters; middle Europe).
- Luze, 1902d: 526 (*Anthophagus*; characters; central and northern Europe).
- Reitter, 1909: 183 (*Anthophagus*; subgenus *Phaganthus*; characters; Germany).
- Bernhauer and Schubert, 1910: 79 (*Anthophagus*; catalog).
- Johansen, 1914: 586 (*Anthophagus*; characters; Denmark).
- Scheerpeltz, 1933: 1068 (*Anthophagus*; catalog).
- C. Koch, 1933a: 141, 143 (*Anthophagus*; subgenus *Phaganthus*; figure).
- C. Koch, 1934a: 169 (*Anthophagus*; subgenus *Phaganthus*; characters; Lapland; Sweden; Norway; Russia; Great Britain; Holland; Germany; Czechoslovakia; Austria; Hungary; Yugoslavia; Italy; Switzerland; France; Spain).
- Palm, 1948: 126 (*Anthophagus*; characters; Sweden; Denmark; Norway; Finland).
- Horion, 1963: 141 (*Anthophagus*; subgenus *Phaganthus*; Russia; Finland; Sweden; Norway; Denmark; Baltic States; Poland; Czechoslovakia; Hungary; Romania; Bosnia; Croatia; Italy; Switzerland; Spain; France; Belgium; Holland; Britain; Austria; Germany).
- Lohse, 1964: 64 (*Anthophagus*; subgenus *Phaganthus*; characters; central Europe).
- Kasule, 1968: 136 (*Phaganthus*; larval characters).
- Szujewski, 1968a: 712 (*Anthophagus*; Poland).
- Szujewski, 1969a: 248 (*Anthophagus*; notes; Poland).
- Steel, 1970a: 21 (*Anthophagus*; larval characters; biological notes).
- Pope, 1977: 23 (*Anthophagus*; Britain).
- Hammond, 1980: 137 (*Anthophagus*; doubtfully in Ireland).
- Tóth, 1982: 92 (*Anthophagus*; characters; Hungary).
- Zanetti, 1987: 393 (*Anthophagus*; subgenus *Phaganthus*; characters; Italy).
- Lucht, 1987: 90 (*Anthophagus*; checklist; Germany; Poland; Czechoslovakia; Austria; Switzerland; France; Benelux; Denmark; Sweden).
- Boháč, 1993: 41 (*Anthophagus*; subgenus *Phaganthus*; Slovakia; Czech Republic).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).
- Cibulskis, 1999: 36 (*Anthophagus*; list; Latvia).
- ▲ **DISTRIBUTION:** Europe, Russia, Georgia.

*testaceus* Gravenhorst, 1802: 121 (*Anthophagus*; Type locality: Not cited, but presumably Brunsvigae).

- Latreille, 1804: 367 (*Lesteva*; characters).
- Gravenhorst, 1806: 221 (*Anthophagus*).
- Curtis, 1830: pl. 303 (*Lesteva*; Britain).
- Curtis, 1829: 29 (*Lesteva*; catalog; Britain).
- Mannerheim, 1830: 55 (*Lesteva*; Finland).
- Mannerheim, 1831: 469 (*Lesteva*; Finland).
- Stephens, 1834: 361 (*Lesteva*; characters; England).
- Runde, 1835: 23 (*Lesteva*; characters; Germany).
- Erichson, 1839a: 615 (*Anthophagus*; characters; Germany).
- Heer, 1839: 194 (*Anthophagus*; characters; Switzerland).
- Stephens, 1839: 431 (*Lesteva*; characters; England).
- Erichson, 1840: 851 (*Anthophagus*; characters; Europe).

- Märkel and Kiesenwetter, 1848a: 327 (*Anthophagus*; notes; Carpathian Alps).
  - Redtenbacher, 1849: 746 (*Anthophagus*; characters; Austria).
  - Hardy, 1851: 54 (*Anthophagus*; notes; England).
  - Fairmaire and Laboulbène, 1856: 628 (*Anthophagus*; characters; France).
  - Redtenbacher, 1857: 243 (*Anthophagus*; characters; Austria).
  - Kraatz, 1857d: 924 (*Anthophagus*; characters; Germany).
  - Hochhuth, 1862: 102 (*Anthophagus*; Russia).
  - Fauvel, 1871a: 140 [= 1872: 114] (*Anthophagus*; characters; France; Britain; Germany; Austria; Switzerland; Italy; Russia).
  - Fauvel, 1873b: 119 [= 1873c: 12] (*Anthophagus*; Sicily).
  - Redtenbacher, 1874: 265 (*Anthophagus*; characters; Austria).
  - Seidlitz, 1875: 242 (*Anthophagus*; characters; Baltic region).
  - J. Sahlberg, 1876: 207 (*Anthophagus*; synonym of *caraboides*).
  - Mulsant and Rey, 1880: 46 (*Anthophagus*; subgenus *Phaganthus*; characters; France).
  - Fowler, 1888: 399 (*Anthophagus*; characters; Britain).
  - Ganglbauer, 1895: 709 (*Anthophagus*; synonym of *caraboides*).
  - Luze, 1902d: 525 (*Anthophagus*; synonym of *caraboides*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; synonym of *caraboides*).
  - Portevin, 1929: 435 (*Anthophagus*; characters; France).
  - Scheerpeltz, 1933: 1068 (*Anthophagus*; synonym of *caraboides*).
  - C. Koch, 1933a: 141 (*Anthophagus*; synonym of *caraboides*).
  - Pope, 1977: 23 (*Anthophagus*; synonym of *caraboides*).
  - Zanetti, 1987: 393 (*Anthophagus*; synonym of *caraboides*).
- hookeri* Stephens, 1834: 361 (*Lesteva*; Type locality: Scotland).
- Stephens, 1839: 431 (*Lesteva*; characters; England; Scotland).
  - G. Waterhouse, 1858: 30 (*Anthophagus*; synonym of *testaceus*).
  - Fauvel, 1871a: 143 [= 1872: 117] (*Anthophagus*; synonym of *caraboides*).
  - Ganglbauer, 1895: 708 (*Anthophagus*; synonym of *abbreviatus*).
  - Luze, 1902d: 516 (*Anthophagus*; synonym of *abbreviatus*).
  - Bernhauer and Schubert, 1910: 78 (*Anthophagus*; synonym of *abbreviatus*).
  - C. Koch, 1933a: 141 (*Anthophagus*; synonym of *caraboides*).
- palustris* Heer, 1841: 572 (*Anthophagus*; Type locality: Mt. Jorat).
- Kraatz, 1857d: 924 (*Anthophagus*; synonym of *testaceus*).
  - Mulsant and Rey, 1880: 46 (*Anthophagus*; synonym of *testaceus*).
  - Fowler, 1888: 399 (*Anthophagus*; synonym of *testaceus*).
  - Ganglbauer, 1895: 709 (*Anthophagus*; synonym of *caraboides*).
  - Luze, 1902d: 525 (*Anthophagus*; synonym of *caraboides*).
  - Bernhauer and Schubert, 1910: 79 (*Anthophagus*; synonym of *caraboides*).
  - C. Koch, 1933a: 141 (*Anthophagus*; synonym of *caraboides*).
- trimaculatus* Luze, 1902d: 527 (*Anthophagus*; Type locality: Caucasus, Abastuman).
- Bernhauer and Schubert, 1910: 81 (*Anthophagus*; catalog).
  - C. Koch, 1933a: 141 (*Anthophagus*; subspecies of *caraboides*).
  - C. Koch, 1934a: 169 (*Anthophagus*; subgenus *Phaganthus*; aberration of *caraboides*).
- maculipennis* Luze, 1902d: 526 (*Anthophagus*; aberration of *caraboides*; [**Note: Nomen nudum** (Articles 1.3.4, 45.5)]; no locality cited).
- Bernhauer and Schubert, 1910: 80 (*Anthophagus*; synonym of *caraboides*).
  - Scheerpeltz, 1933: 1068 (*Anthophagus*; aberration of *caraboides*).
  - C. Koch, 1933a: 141 (*Anthophagus*; aberration of *caraboides*).
  - C. Koch, 1934a: 169 (*Anthophagus*; subgenus *Phaganthus*; aberration of *caraboides*).
- aquilonaris* C. Koch, 1940: 373 (*Anthophagus*; subgenus *Phaganthus*; subspecies of *caraboides*; [**Note: Described first by Koch (1934) as an aberration of *caraboides* and therefore an unavailable name (Articles 1.3.4, 45.5) but made available in 1940]; Type locality: Nordspanien: Espinama, kantabr. Kordilleren).**
- C. Koch, 1934a: 169, 171 (*Anthophagus*; subgenus *Phaganthus*; aberration of *caraboides*; [**Note: Unavailable name]; Germany and Russia).**

*carinthiacus* Mulsant and Rey, 1880, see: *fallax* Kiesenwetter, 1848.

*carpathicus* Havelka and R. Dvořák, 1953 [**Note: Nomen nudum**], see: *bicornis* Block, 1799.

*cenisius* Fairmaire, 1861, see: *Hygrogeus*.

*crassicornis* Mulsant and Rey, 1861, see: *rotundicollis* Heer, 1839.

*decoratus* C. Koch, 1933 [**Note: Nomen nudum**], see: *alpestris* Heer, 1839.

*dichrous* Gravenhorst, 1802, see: *Deleaster*.

*dinaricus* Apfelbeck, 1909, see: *transversus* Motschulsky, 1857.

**durmitorensis** Coiffait, 1980a: 48 (*Anthophagus*; subgenus *Dimorphoschelus*; Type locality: Montenegro, Durmitor, Alisnica, 1800 m).

▲ **DISTRIBUTION:** Yugoslavia.

**fallax** Kiesenwetter, 1848b: 18 (*Anthophagus*; Type locality: Kärnthner Alpen).

— C. Koch, 1933a: 142, 143 (*Anthophagus*; subgenus *Anthophagus*; figure).

— Horion, 1935: 169 (*Anthophagus*; characters; Alps; Böhmerwald; Riesengebirge).

— Horion, 1963: 146 (*Anthophagus*; subgenus *Anthophagus*; Alps from Austria to Italy and France; Germany).

— Lohse, 1964: 66 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).

— Tóth, 1982: 95 (*Anthophagus*; characters).

— Zanetti, 1987: 412 (*Anthophagus*; subgenus *Anthophagus*; characters; Italy).

— Lucht, 1987: 90 (*Anthophagus*; checklist; Germany; Austria; Switzerland).

— Zanetti, 1995: 9 (*Anthophagus*; Italy).

— Burakowski, Mroczkowski, and Stefańska, 2000: 42 (*Anthophagus*; subgenus *Anthophagus*; catalog; Poland).

— Herman, 2001: 20 (*Anthophagus*; synonymy).

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

*fallax* Märkel and Kiesenwetter, 1848a: 326 (*Anthophagus*; [**preoccupied**]; Type locality: Kärnthner Alpen).

— Kraatz, 1857d: 920 (*Anthophagus*; characters; Germany).

— Fauvel, 1865a: 315 [= 1865b: 65] (*Anthophagus*; habitat; France).

— Fauvel, 1871a: 148 [= 1872: 122] (*Anthophagus*; characters; France; Germany; Switzerland; Italy).

— Redtenbacher, 1874: 265 (*Anthophagus*; characters; Austria).

— Mulsant and Rey, 1880: 35 (*Anthophagus*; characters; France).

— Ganglbauer, 1895: 708 (*Anthophagus*; characters; western Alps).

— Luze, 1902d: 522 (*Anthophagus*; characters; Italy; France; Switzerland; Tessin; Austria).

— Bernhauer and Schubert, 1910: 80 (*Anthophagus*; catalog).

— Portevin, 1929: 436 (*Anthophagus*; characters; France).

— Scheerpeltz, 1933: 1069 (*Anthophagus*; catalog).

— C. Koch, 1934a: 210 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).

— Assing, Frisch, Kahlen, et al., 1998: 125 (*Anthophagus*; author of species).

— Herman, 2001: 20 (*Anthophagus*; synonym of *fallax* Kiesenwetter).

*carinthiacus* Mulsant and Rey, 1880: 37 (*Anthophagus*; Type locality: Carinthie).

— Ganglbauer, 1895: 708 (*Anthophagus*; synonym of *fallax*).

— Bernhauer and Schubert, 1910: 80 (*Anthophagus*; synonym of *fallax*).

*fallax* Märkel and Kiesenwetter, 1848, see: *fallax* Kiesenwetter, 1848.

*fascifer* Reitter, 1888, see: *angusticollis* Mannerheim, 1830.

**fauxeli** Luze, 1902d: 524 (*Anthophagus*; Type locality: Sicily).

— Bernhauer and Schubert, 1910: 80 (*Anthophagus*; catalog).

— Fiori, 1915: 6 (*Anthophagus*; Italy).

— C. Koch, 1933: 27 (*Anthophagus*; characters; Sicily).

— C. Koch, 1933a: 141 (*Anthophagus*; subgenus *Phaganthus*).

— C. Koch, 1934a: 167 (*Anthophagus*; subgenus *Phaganthus*; characters; Italy).

— Scheerpeltz, 1961d: 118 (*Anthophagus*; subgenus *Phaganthus*; Italy).



- Scheerpeltz, 1965b: 392 (*Anthophagus*; subgenus *Phaganthus*; Sicily).
- Zanetti, 1987: 395 (*Anthophagus*; subgenus *Phaganthus*; characters; Italy).
- Sparacio, 1995: 143 (*Anthophagus*; characters; notes; Sicily).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).
- Zanetti and Sabella, 1998: 34 (*Anthophagus*; Sicily).

▲ **DISTRIBUTION:** Italy.

*caprai* C. Koch, 1933: 27 (*Anthophagus*; subspecies of *fauveli*; Type locality: Tutto l'Appennino).

- C. Koch, 1933a: 141, 143 (*Anthophagus*; subspecies of *fauveli*; figure).
- C. Koch, 1934a: 167 (*Anthophagus*; subgenus *Phaganthus*; race of *fauveli*).
- Zanetti, 1987: 395 (*Anthophagus*; subgenus *Phaganthus*; subspecies of *fauveli*; characters; Italy).
- Zanetti, 1995: 9 (*Anthophagus*; subspecies of *fauveli*; Italy).

*fenestrellanus* Bernhauer, 1909, see: *melanocephalus* Heer, 1839.

*fischeri* Havelka and R. Dvořák, 1953 [**Note: Nomen nudum**], see: *alpinus* Fabricius, 1793.

*flavipennis* Lacordaire, 1835, see: *alpinus* Fabricius, 1793.

**forticornis** Kiesenwetter, 1846: 21 (*Anthophagus*; Type locality: Spieglitzer Schneeberg in der Grafschaft Glatz in einer Höhe von gegen 4,500 Fuss).

- Kiesenwetter, 1847a: 51 (*Anthophagus*; characters; Germany).
- Märkel and Kiesenwetter, 1848a: 326 (*Anthophagus*; notes; Carpathian Alps).
- Redtenbacher, 1849: 746 (*Anthophagus*; characters; Austria).
- Redtenbacher, 1857: 243 (*Anthophagus*; characters; Austria).
- Kraatz, 1857d: 917 (*Anthophagus*; characters; Germany).
- Fauvel, 1871a: 144 [= 1872: 118] (*Anthophagus*; characters; Switzerland; Germany; Austria).
- Redtenbacher, 1874: 264 (*Anthophagus*; characters; Austria).
- Ganglbauer, 1895: 707 (*Anthophagus*; characters; Alps; Sudeten).
- Luze, 1902d: 521 (*Anthophagus*; characters; Alps; Sudeten).
- Reitter, 1909: 182 (*Anthophagus*; characters; Germany).
- Bernhauer and Schubert, 1910: 80 (*Anthophagus*; catalog).
- Scheerpeltz, 1933: 1069 (*Anthophagus*; catalog).
- C. Koch, 1933a: 142, 143 (*Anthophagus*; subgenus *Anthophagus*; figure).
- C. Koch, 1934a: 209 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).
- Horion, 1963: 145 (*Anthophagus*; subgenus *Anthophagus*; Czech Republic; Slovakia; Switzerland; Italy; Austria; Germany).
- Lohse, 1964: 66 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).
- Tóth, 1982: 95 (*Anthophagus*; characters; Slovakia).
- Zanetti, 1987: 411 (*Anthophagus*; subgenus *Anthophagus*; characters; Italy).
- Lucht, 1987: 90 (*Anthophagus*; checklist; Germany; Poland; Czechoslovakia; Austria).
- Boháč, 1993: 42 (*Anthophagus*; subgenus *Dimorphoschelus*; Slovakia; Czech Republic).
- Zanetti, 1995: 9 (*Anthophagus*; Italy).

▲ **DISTRIBUTION:** France, Germany, Switzerland, Austria, Czech Republic, Slovakia, Italy.

*fulvus* De Geer, 1774, see: *angusticollis* Mannerheim, 1830.

**giebeli**† Heyden and Heyden, 1866: 136 (*Anthophagus*; Oligocene fossil; Type locality: Braunkohle des Siebengebirges).

- Scudder, 1891: 467 (*Anthophagus*; catalog; Aquitanian Horizon).
- Handlirsch, 1907: 730 (*Anthophagus*; catalog; Oligocene; Germany).

▲ **DISTRIBUTION:** Germany.

*gracilis* Heer, 1841, see: *angusticollis* Mannerheim, 1830.

**hanfii** Gistel, 1857: 4 (*Anthophagus*; [**Note: Nomen dubium**]; Type locality: Niederbayern: Passau, Cham).

▲ **DISTRIBUTION:** Germany.

*homalinus* Fauvel, 1871, see: *omalinus* Zetterstedt, 1828.

*hookeri* Stephens, 1834, see: *caraboides* Linné, 1758.

*horni* C. Koch, 1933, see: *noricus* Ganglbauer, 1895.

**hummleri** Bernhauer, 1912k: 259 (*Anthophagus*; Type locality: Asturien: Cancas).

— Scheerpeltz, 1933: 1069 (*Anthophagus*; catalog).

— C. Koch, 1933a: 142 (*Anthophagus*; subgenus *Dimorphoschelus*).

— C. Koch, 1934a: 230 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; Spain).

▲ **DISTRIBUTION:** Spain.

**ilgazicus** Coiffait, 1981a: 55 (*Anthophagus*; subgenus *Dimorphoschelus*; Type locality: Turquie septentrionale: Col de l'Ilgaz Dag, 1800 m).

▲ **DISTRIBUTION:** Turkey.

*imitator* Luze, 1902 [**Note: Nomen nudum**], see: *rotundicollis* Heer, 1839.

*inexpectatus* Havelka and R. Dvořák, 1953 [**Note: Nomen nudum**], see: *bicornis* Block, 1799.

*intermedius* Gravenhorst, 1806, see: *Lesteva*.

*kochi* Bernhauer, 1935, see: *alpestris* Heer, 1839.

*lapponicus* C. Sahlberg, 1827, see: *alpinus* Fabricius, 1793.

*laticollis* Mannerheim, 1843, see: *Microedus*.

*leederi* Bernhauer, 1940, see: *noricus* Ganglbauer, 1895.

*lestevoides* Sharp, 1889, see: *Geodromicus*.

*lituratus* Kraatz, 1857, see: *Geodromicus*.

*maculipennis* Luze, 1902 [**Note: Nomen nudum**], see: *caraboides* Linné, 1758.

*mandibularis* Gyllenhal, 1827, see: *alpinus* Fabricius, 1793.

*marginicollis* Eppelsheim, 1889, see: *bicornis* Block, 1799.

*macillosus* Zetterstedt, 1828, see: *alpinus* Fabricius, 1793.

**melanocephalus** Heer, 1839: 195 (*Anthophagus*; Type locality: Urschein; Calankeralpen).

— Kiesenwetter, 1845: 23 (*Anthophagus*; characters; notes).

— Kiesenwetter, 1847a: 59 (*Anthophagus*; characters; Switzerland).

— Märkel and Kiesenwetter, 1848a: 327 (*Anthophagus*; notes; Carpathian Alps).

— Redtenbacher, 1857: 242 (*Anthophagus*; characters; Austria).

— Kraatz, 1857d: 921 (*Anthophagus*; characters; Germany).

— Fauvel, 1871a: 143 [= 1872: 117] (*Anthophagus*; characters; France; Germany; Switzerland; Italy; Austria).

— Redtenbacher, 1874: 263 (*Anthophagus*; characters; Austria).

— Mulsant and Rey, 1880: 32 (*Anthophagus*; characters; France).

— Ganglbauer, 1895: 708 (*Anthophagus*; characters; Europe).

— Luze, 1902d: 522 (*Anthophagus*; characters; Alps).

— Reitter, 1909: 183 (*Anthophagus*; characters; Germany).

— Bernhauer and Schubert, 1910: 80 (*Anthophagus*; catalog).

— Portevin, 1929: 434 (*Anthophagus*; characters; France).

— Scheerpeltz, 1933: 1069 (*Anthophagus*; catalog).

— C. Koch, 1933a: 142, 143 (*Anthophagus*; subgenus *Dimorphoschelus*; figure).

— C. Koch, 1934a: 226 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; Alps).

— Horion, 1963: 148 (*Anthophagus*; subgenus *Dimorphoschelus*; France; Italy; Switzerland; Germany; Austria; Slovenia).

— Lohse, 1964: 67 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; central Europe).

— Tóth, 1982: 96 (*Anthophagus*; characters).

— Zanetti, 1987: 417 (*Anthophagus*; subgenus *Dimorphoschelus*; characters; Italy).

— Lucht, 1987: 90 (*Anthophagus*; checklist; Germany; Austria; Switzerland).

— Boháč, 1993: 42 (*Anthophagus*; subgenus *Anthophagus*; Czech Republic ?).

— Zanetti, 1995: 9 (*Anthophagus*; Italy).

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

- fenestrellanus* Bernhauer, 1909b: 197 (*Anthophagus*; Type locality: Piemontesische Alpen).  
 — Bernhauer and Schubert, 1910: 80 (*Anthophagus*; synonym of *melanocephalus*).  
 — C. Koch, 1933a: 142 (*Anthophagus*; subspecies of *melanocephalus*).  
 — C. Koch, 1934a: 226 (*Anthophagus*; subgenus *Dimorphoschelus*; race of *melanocephalus*; characters).  
 — Zanetti, 1987: 417 (*Anthophagus*; synonym of *melanocephalus*).

*muelleri* Bernhauer, 1901, see: *spectabilis* Heer, 1839.

**muticus** Kiesenwetter, 1850: 221 (*Anthophagus*; Type locality: Pyrenaei centrales).

- Kiesenwetter, 1851a: 433 (*Anthophagus*; characters; France).  
 — Fairmaire and Laboulbène, 1856: 627 (*Anthophagus*; characters; France).  
 — Kraatz, 1857d: 916 (*Anthophagus*; notes).  
 — Fauvel, 1871a: 146 [= 1872: 120] (*Anthophagus*; characters; France).  
 — Fauvel, 1876a: 54 [= 1876: 239] (*Anthophagus*; Italy).  
 — Mulsant and Rey, 1880: 27 (*Anthophagus*; characters; France).  
 — Luze, 1902d: 515 (*Anthophagus*; characters; central and eastern Pyrenees).  
 — Bernhauer and Schubert, 1910: 80 (*Anthophagus*; catalog).  
 — C. Koch, 1933: 28 (*Anthophagus*; characters; Pyrenees).  
 — C. Koch, 1933a: 142, 143 (*Anthophagus*; subgenus *Anthophagus*; figure).  
 — C. Koch, 1934a: 193 (*Anthophagus*; subgenus *Anthophagus*; characters; Pyrenees).  
 — C. Koch, 1940: 374 (*Anthophagus*; Spain).  
 ▲ **DISTRIBUTION:** France, Italy, Spain.

*scheerpeltzi* C. Koch, 1933: 28 (*Anthophagus*; subspecies of *muticus*; Type locality: Asturia, Cordilliere cantabrice).

- C. Koch, 1933a: 142 (*Anthophagus*; cited as *scheerpeltzi*; subspecies of *muticus*).  
 — C. Koch, 1934a: 193, 194 (*Anthophagus*; subgenus *Anthophagus*; race of *muticus*; characters).

**nigrifrons** Grimmer, 1841: 34 (*Anthophagus*; [**Note: Nomen dubium**]; Type locality: Steiermark).

▲ **DISTRIBUTION:** Austria.

*nigrinus* Eppelsheim, 1889, see: *bicornis* Block, 1799.

*nigrita* P. W. J. Müller, 1821, see: *Geodromicus*.

*nigrophthalmus* Block, 1799, see: *plagiatus* Fabricius, 1798.

*nivalis* Mulsant and Rey, 1880, see: *bicornis* Block, 1799.

**noricus** Ganglbauer, 1895: 707 (*Anthophagus*; Type locality: Tauern).

- Luze, 1902d: 520 (*Anthophagus*; characters; Tauern).  
 — Bernhauer and Schubert, 1910: 80 (*Anthophagus*; catalog).  
 — Scheerpeltz, 1933: 1069 (*Anthophagus*; catalog).  
 — C. Koch, 1933a: 142 (*Anthophagus*; subgenus *Anthophagus*).  
 — C. Koch, 1934a: 206 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).  
 — Horion, 1963: 145 (*Anthophagus*; subgenus *Anthophagus*; Austria).  
 — Lohse, 1964: 65 (*Anthophagus*; subgenus *Anthophagus*; characters; central Europe).  
 — Zanetti, 1987: 410 (*Anthophagus*; subgenus *Anthophagus*; characters; Italy).  
 — Lucht, 1987: 90 (*Anthophagus*; checklist; Austria).  
 — Zanetti, 1995: 9 (*Anthophagus*; Italy).

▲ **DISTRIBUTION:** Austria, Italy.

*horni* C. Koch, 1933: 29 (*Anthophagus*; variety of *noricus*; Type locality: Gastein).

- C. Koch, 1933a: 142 (*Anthophagus*; aberration of *noricus*).  
 — C. Koch, 1934a: 206 (*Anthophagus*; subgenus *Anthophagus*; aberration of *noricus*; characters).

*leederi* Bernhauer, 1940b: 625 (*Anthophagus*; variety of *noricus*; Type locality: Hohe Tauern, Krumeltal, 2100 m).

*obenbergeri* Rambousek, 1927 [**Note: Nomen nudum**], see: *bicornis* Block, 1799.

*obscuriceps* Motschulsky, 1860, see: *angusticollis* Mannerheim, 1830.