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P. J. Spangler

Smithsonian Institution, Washington, DC

C. L. Staines

Smithsonian Institution, Washington, DC

P. M. Spangler

Smithsonian Institution, Washington, DC

S. L. Staines

Smithsonian Institution, Washington, DC

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A checklist of the Limnichidae and the Lutrochidae (Coleoptera) of the world

P. J. Spangler, C. L. Staines, P.M. Spangler, and S.L. Staines

Department of Entomology
National Museum of Natural History
Smithsonian Institution
Washington, DC 20560

Abstract. A checklist of the world species of Limnichidae (35 genera, 345 species) and Lutrochidae (1 genus, 11 species) is presented. The author, year of publication and page number, synonyms, distribution by country, and a terminal bibliography are given for each genus and species. Biological information is also reviewed.

Introduction

The Limnichidae Erichson (1847) and Lutrochidae Kasap and Crowson (1975) are small semi-aquatic beetles; adults of both families most frequently live in riparian habitats. Both families were previously assigned to the superfamily Dryopoidea (Crowson, 1978); however, they are now placed in the Byrrhoidea (Lawrence and Newton, 1995). From 1975 through 1993, D. P. Wooldridge published numerous limnichid descriptions and revisions but much systematic work remains to be done for the Limnichidae, especially in the tropical regions of the Eastern Hemisphere.

Not much has been published dealing with the biology of the families. Paulus (1970) described the larva of the European species *Limnichus sericeus* Duftschmid (1825) and the larva and pupa of *Pelochares versicolor* Waltl (1838). Paulus also reported that the larvae of both genera are terrestrial and live in the soil under the "Chlorophyceae-Bryophyta layers," and reportedly feed on those plants.

Adults may be found near the waterline on branches and grasses hanging over stream banks or in riffles, on driftwood, in logjams, and on rocks in streams; some are found in splash zones beside cascades and waterfalls and on dam breasts. Specimens of at least five limnichid genera, *Pseudeucinetus* Heller (1921), *Martinius* Spilman (1959), *Hyphalus* Britton (1971, 1973, 1977), *Throscinus* LeConte (1874) (fide Wooldridge, 1981), and *Mexico* Spilman (1972) are known to live on coral reefs (Satô, 1997; Hernando and Ribera, 2000b), coastal lagoons, mangrove swamps, or edges of mud or rocky flats along coastal areas.

Brown (1965) discussed characteristic microhabitats of various dryopoids including *Lutrochus* Erichson (1847). Brown and Murvosh (1970) de-

scribed the species and adult behavior of *Lutrochus arizonicus* Brown and Murvosh. Hilsenhoff and Schmude (1992) reported that adults of *L. laticeps* Casey (1893) were found in small to large, warm, calcareous streams; that adults oviposit on submerged wood or on travertine rocks; and larvae were aquatic and were collected on the travertine rocks.

Previous world catalogs that included the limnichids and lutrochids are by Zaitzev (1910) and von Dalla Torre (1911) who recorded 11 genera and 75 species. Blackwelder (1944) published a checklist of the Coleoptera of Mexico, Central America, the West Indies, and South America in which he reported 11 genera and 44 species of Limnichidae and 8 species of Lutrochidae in the nominate genus. Wooldridge (1986b) published a catalog of the Limnichidae (including *Lutrochus*) of North America in which he included 6 genera and 29 species of Limnichidae and the single genus, *Lutrochus* with 3 species. Some recent revisionary studies on the Limnichidae are those by Wooldridge (1976, 1977a, 1977b, 1978, 1979, 1980, 1981b, 1982, 1983, 1987b). Additional studies that have added to our knowledge of the Limnichidae are by Darlington (1936), fauna of the West Indies; Wu (1937), China; Satô (1965), Formosa; Satô (1966, 1976, 1997), Japan; Delève (1968, 1974), Herando and Ribera (2000a), Africa; Delève (1971, 1973), Asia; Wooldridge (1975), Western Hemisphere; Pütz (1991b), Germany; Mascagni (1995), Italy; Pütz (1998a, 1998b), China and neighboring countries; Ribera and Hernando (1999), and Hernando and Ribera (2000b), Oriental Region.

This checklist is an effort to bring the limnichid and lutrochid names and pertinent taxonomic literature into a single publication and was compiled by examining the literature for descriptions, synonyms,

and distributional data plus examination of the collection of the Smithsonian Institution.

**A checklist of the Limnichidae
of the world**

- ACONTOSCELES* Champion, 1924a:27
hydroporoides Champion, 1924a:29
 Taiwan [Formosa], India
tagalog Spilman, 1959:116
 Philippines
yorioi Satô, 1966:60
 Japan (Ryukyus)
- AFROLIMNICHUS* Delève, 1968:259
brevicornis Delève, 1968:260
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oblongus Delève, 1974:40
 South Africa (Cape Province)
- BABALIMNICHUS* Satô, 1994:174
masamii Satô, 1994:175
 Japan (Ryukyus)
taiwanus Satô, 1994:174
 Taiwan
- BOTHRIOPHORUS* Mulsant and Rey, 1852:19
atomus Mulsant and Rey, 1852:20
 (syn., *ventetus* Ferrari, 1864:108)
 Europe
- BYRRHINUS* Motschulsky, 1858:50
 syn., *BYRRHININUS* Pic, 1922:6
 syn., *CYPHONICHUS* Sharp, 1902a:679
 syn., *NOTIOCYPHON* Blackburn, 1896:272
 syn., *PELOCHEROPS* Pic, 1923a:3
amoenus Wooldridge, 1987a:310
 Belize, British Guiana, Colombia, Ecuador
andamanus (Pic), 1935a:2
 Andaman Islands
angustatus Motschulsky, 1858:51
 India, Thailand
antipodium Fauvel, 1903:348
 New Caledonia
apicalis Pic, 1922:5
 Katanga
atricornis (Pic), 1935a:3
 Congo, Sierra Leone
atrolucidus (Pic), 1923a:3
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binhanus (Pic), 1923b:5
 Vietnam
- biroi* Pic, 1956:75
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bomansi (Delève), 1968:245
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borneensis Pic, 1923b:7
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boucardi Pic, 1923b:7
 Sumatra
brevior (Pic), 1927a:65
 Sumatra
convexus (Pic), 1923b:5
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cribrosus Champion, 1923:253
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curtus Pic, 1935b:471
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 Ivory Coast
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 Ivory Coast
ellyphiticus Motschulsky, 1858:51
 India
euryaspis Champion, 1923:250
 India [Nilgiri Hills]
ferax Wooldridge, 1993b:359
 Philippines, Borneo
flavicornis Champion, 1923:251
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formosanus Pic, 1935a:2
 Taiwan [Formosa]
fuscus Motschulsky, 1858:52
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goldbachii Wooldridge, 1987b:310
 Ecuador, Paraguay
gracilicornis Pic, 1922:5
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grandis (Pic), 1956:74
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grossepunctatus (Delève), 1968:249
 Congo
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 Sierra Leone
hirsutululus Champion, 1923:250
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hirsutus Pic, 1922:5
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 Ecuador
inlineatus Pic, 1923c:15
 India

- irregularis* Pic, 1922:5
Philippines
- jacobsoni* Pic, 1927a:65
Sumatra
- latus* Motschulsky, 1858:50
Bangladesh, Burma, India, Sri Lanka
- leleupi* (Delève), 1968:257
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- leonensis* (Pic), 1923b:6
Congo, Sierra Leone
- maculatus* Wooldridge, 1987b:307
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- magnus* Wooldridge, 1987b:307
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- marginatus* Champion, 1923:249
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- maroniensis* Pic, 1923b:7
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Tobago, Venezuela
- mimicus* Wooldridge, 1987b:308
Colombia, Panamá
- misellus* (Sharp), 1902a:681
Colombia, Costa Rica, México, Nicaragua,
Panamá
- monilicornis* Champion, 1923:251
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- neoguineensis* (Pic), 1956:75
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- niger* Pic, 1922:5
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- nitidicollis* Pic, 1956:75
New Guinea
- nitidulus* Motschulsky, 1858:51
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- noctivagus* Lea 1920:277
Australia
- oculatus* Motschulsky, 1858:52
India
- olibroides* (Sharp), 1902a:679
(syn., *celatus* Sharp, 1902a:680)
Belize, El Salvador, Guatemala, México
- orientalis* (Sharp), 1902b:63
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- padangus* Pic, 1927b:49
Sumatra
- panamensis* (Sharp), 1902a:679
(syn., *mollis* Sharp, 1902a:681)
(syn., *rufipennis* Pic, 1923b:7)
Belize, Colombia, Costa Rica, Guatemala,
Panamá
- peguensis* Pic, 1923c:15
India
- plenus* Wooldridge, 1987b:305
Boliva, Ecuador
- pubiventris* Lea:1920:277
Australia
- punctaticeps* Pic, 1927b:49
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- punctatus* (Pic), 1922:5
Philippines
- punctulatus* (Delève), 1968:243
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- reitteri* (Pic), 1923b:6
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- rhomboideus* Champion, 1923:253
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- rufoapicalis* (Pic), 1955:132
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- rufus* Pic, 1935a:2
Thailand
- schoutedeni* (Pic), 1952:9
Congo
- semirufus* Pic, 1923b:8
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- seydeli* (Delève), 1968:252
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- sikkimensis* Champion, 1923:249
India [Sikkim]
- subglobosus* (Delève), 1968:254
Elisabethville [Zaire]
- subglobosus upembanus* (Delève), 1968:256
Upemba [Zaire]
- subregularis* Pic, 1923c:15
Vietnam
- subtestaceous* Pic, 1923b:8
Philippines
- tarawakanus* Delève, 1973:23
Borneo [Sabah], Philippines (Tawi Tawi)
- testaceicornis* (Pic), 1923b:5
Philippines
- testaceipes* Pic, 1922:5
subregularis Pic, 1923b:7 Lapsus Calami
Sumatra
- tschoffeni* (Delève), 1968:235
Boma [Congo]
- vatovai* (Pic), 1953:113
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- vestitus* (Sharp), 1902a:681
Guatemala, México
- vicinus* (Delève), 1968:248
Congo
- wittei* (Delève), 1968:253
Upemba [Zaire]

- CACOTHRYPTUS* Sharp, 1902b:63
syn., *MACROBYRRHINUS* Pic, 1922:4
compactus Sharp, 1902b:63
Borneo, Vietnam
laosensis Pic, 1928:2
Laos
maculosus Pic, 1923a:3
Tonkin
multiseriatus Champion, 1923:224
India [Bengal]
ripicola Champion, 1923:223
India [W. Almora]
rouyeri (Pic), 1922:4
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testudo Champion, 1923:222
India [W. Almora], Nepal
- CEPHALOBYYRRHINUS* Pic, 1923b:6
brevis Wooldridge, 1986a:512
Ecuador
curticornis Pic, 1923b:6
Costa Rica, Mexico, Nicaragua, Panama,
Venezuela
impressopunctatus Wooldridge, 1977b:32
Bolivia
lineatus Wooldridge, 1986a:513
Costa Rica, Panama
robustus Wooldridge, 1986a:512
Ecuador, Peru
sedatus Wooldridge, 1986a:513
Ecuador
- CEPHALOBYYRRHUS* Pic, 1923b:4
bertiae Pütz, 1998b:344
China [Yunnan]
brevipalpus Pütz, 1998b:346
China [Yunnan]
emeishanensis Pütz, 1998b:347
China [Sichuan]
gibbicollis Champion, 1925a:175
India [Kumaon]
jaechi Pütz, 1998b:351
China [Sichuan]
japonicus Champion, 1925a:176
Japan
jiangxiensis Pütz, 1998b:354
China [Jiangxi]
jinggangshanensis Pütz, 1998b:355
China [Jiangxi]
latus Pic, 1923b:4
Taiwan [Formosa]
longipalpis Pütz 1998:359
China [Jiangxi]
- nepalensis* Pütz, 1998b:360
Nepal [Myagdi]
schillhammeri Pütz, 1998b:362
China [Sichuan]
schuelkei Pütz, 1998b:363
China [Sichuan]
sichuanensis Pütz, 1998b:365
China
subelongatus Pic, 1923b:4
India [Sikkim]
- CHIBIDORONUS* Satô, 1966:59
aureus Satô, 1966:60
Japan (Ryukyus)
- CORRINEA* Wooldridge, 1980:69
admirandus (Sharp) 1902a:677
México
audax Wooldridge, 1980:75
México
aurata Wooldridge, 1980:71
Brazil, Ecuador
delicata Wooldridge, 1980:75
Colombia, Costa Rica, México, Panamá
edita Wooldridge, 1993a:36
Venezuela
incondita Wooldridge, 1980:73
Bolivia, Colombia, Ecuador
lecta Wooldridge, 1980:74
Bolivia
parva Wooldridge, 1980:74
Bolivia, Ecuador, Perú
placida Wooldridge, 1980:76
Trinidad
salebrosa Wooldridge, 1980:75
Guatemala
spicula Wooldridge, 1980:73
Ecuador
splendida Wooldridge, 1980:71
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vianai (Pic), 1939:249
Argentina
- CYCLOLIMNICHUS* Delève, 1968:270
dentoni Hernando and Ribera 2000a:216
Cameroon
jaechi Hernando and Ribera 2000a:215
Kenya
ovalis Hernando and Ribera 2000a:215
Cameroon
presignis Delève, 1968:272
Congo

- ERSACHUS* Erichson 1847:497
erichsonianus Sharp, 1902a:683, pl. 20
 Guatemala, México, Panamá
lugubris Sharp, 1902a:684
 Guatemala
mexicanus Sharp, 1902a:684
 México
variegatus Erichson, 1847:497
 Colombia
- EULIMNICHUS* Casey, 1889:146
acutus Wooldridge, 1979:7
 Costa Rica, Colombia, El Salvador, Guatemala,
 Honduras, México, Panamá
analís (LeConte), 1879:515
 (syn., *analís rugiceps* Casey, 1912:47)
 (syn., *analís coloradensis* Casey, 1912:47)
 México, Panamá, USA (AR, AZ, CA, CO, MO,
 OR, TX, UT, WA)
ater (LeConte), 1854:117
 (syn., *guatemalicus* Sharp, 1902a:676)
 (syn., *sculpticeps* Casey, 1912:50)
 (syn., *Limnichoderus oblongus* Pic, 1922:4)
 Argentina, Belize, Bolivia, Brazil, British
 Guiana, Colombia, Costa Rica, Cuba,
 Ecuador, Guatemala, Honduras, Jamaica,
 México, Panamá, Perú, USA (FL, GA, IN,
 LA, MA, MS, NC, SC, TX), Venezuela
californicus (LeConte), 1879:515
 USA (CA, OR)
coheni Wooldridge, 1979:4
 Bolivia, Ecuador
confertus Sharp, 1902a:676
 México, Guatemala
corrinea Wooldridge, 1979:3
 Argentina, Brazil, Venezuela
epistemus Sharp, 1902a:673
 Costa Rica, Guatemala, Nicaragua, México
evanescens Casey, 1912:48
 USA (CA)
expeditus Wooldridge, 1984b:57
 Guatemala, Honduras
impostus Wooldridge, 1978:172
 (syn. *elongatus* Pic, 1923b:7; preoccupied)
 Brazil
improcerus Wooldridge, 1979:4
 USA (MA)
incultus Wooldridge, 1979:6
 Bolivia, Ecuador
langleyae Wooldridge, 1979:3
 Ecuador, Perú
montanus (LeConte), 1879:514
 (syn., *laeticulus* Sharp, 1902a:674)
 México, USA (AZ, CA, CO, NM, OR)
nitidulus (LeConte), 1854:117
 Argentina, Brazil, Costa Rica, Ecuador,
 México, Nicaragua, Panamá, USA (AL, FL,
 GA, IN, ME, MO, NC, NH, PA, SC, VA)
obscurus (LeConte), 1854:116
 USA (DC, IL, IN, KS, MD, MS, NC, NY, TN,
 TX, VA)
optatus Sharp, 1902a:675
 Guatemala, México, USA (AL, GA, LA, TX)
pellucidus Wooldridge, 1979:5
 Venezuela
perpolitus Casey, 1889:151
 USA (AZ, CA, NM, TX)
plebius Sharp, 1902a:675
 (syn., *Limnichoderus convexus* Pic, 1922:4)
 (syn., *Limnichoderus breyeri* Pic, 1930:43)
 (syn., *Limnichoderus peruvianus* Pic, 1954:178)
 Argentina, Brazil, Colombia, Dominican
 Republic, Ecuador, El Salvador, Guatemala,
 Haiti, Honduras, México, Puerto Rico, Perú,
 Trinidad, Venezuela
rugulosus Wooldridge, 1979:6
 USA (IL, MI, WI)
rusticus Wooldridge, 1979:7
 México
sharpi Wooldridge, 1979:5
 México
sordidus Sharp, 1902a:676
 Guatemala
spangleri Wooldridge, 1979:8
 El Salvador, Guatemala, Honduras, México
subtitus Wooldridge, 1979:8
 USA (AL, FL)
sublaevis Sharp, 1902a:674
 Guatemala, Panamá
visendus Wooldridge, 1979:1
 México
- EUTHRYPTUS* Sharp, 1902a:682
orbicularis Sharp, 1902a:682
 Guatemala, México, Panamá
trigonalis Sharp, 1902a:682
 Guatemala
- HYPHALUS* Britton, 1971:88
crowsoni Hernando and Ribera 2000b:240
 Seychelles [Aldabra]
insularis Britton, 1971:90
 Australia
kuscheli Britton, 1977:82
 New Zealand

- prolixus* Britton, 1977:85
New Zealand
- taekoae* Satô, 1997:110
Japan (Ryukyus)
- ultimus* Britton, 1977:85
New Zealand
- wisei* Britton, 1973:121
New Zealand
- JAECHOBYRRHINUS** Pütz, 1991a:132
- amanosius* Pütz, 1991a:132
Turkey
- LICHMINUS** Casey, 1889:147
- tenuicornis* Casey, 1889:155
USA (CA)
- LIMNICHITES** Casey, 1889:147
- browni* Wooldridge, 1977a:187
El Salvador, México
- confertus* (Sharp), 1902a:676
Costa Rica, Guatemala, Honduras, Jamaica,
México, Nicaragua
- foraminosus* Casey, 1912:43
México, USA (AZ, CA, NM, OR, TX, UT)
- huronicus* Casey, 1912:43
Canada, USA (IL, MA, MI)
- imparatus* Wooldridge, 1977a:181
México
- nebulosus* (LeConte), 1879:515
(syn., *densissimus* Casey, 1912:41)
México, USA (AR, AZ, CA, OK, OR, TX)
- olivaceus* (LeConte), 1854:116
(syn., *virginicus* Casey, 1912:42)
USA (AL, AR, CT, DC, IA, IL, IN, MA, MD, MI,
MO, NC, OH, OK, PA, TX, VA, WV)
- perforatus* (Casey), 1889:155
México, USA (CA)
- porrectus* Wooldridge, 1977a:182
México
- punctatus* (LeConte), 1854:116
(syn., *austinianus* Casey, 1912:42)
Canada, USA (AL, DC, GA, IA, IL, MA, MD,
ME, MI, MN, MS, NH, NJ, NY, OH, OK, PA,
RI, TX, UT, VA, WI)
- rudis* Wooldridge, 1977a:183
Cuba, Jamaica
- simplex* Wooldridge, 1977a:188
Costa Rica, México
- LIMNICHODERUS** Casey, 1889:147
- amoenus* Wooldridge, 1981b:179
Ecuador
- angustus* Wooldridge, 1981b:180
Colombia, Ecuador, Panamá, Venezuela
- barberi* Wooldridge, 1981b:174
Haiti, Puerto Rico, Trinidad-Tobago
- conspectus* Wooldridge, 1981b:181
Ecuador, Perú
- cupidus* Wooldridge, 1981b:178
Brazil
- curtulus* Sharp, 1902a:678
(syn., *minutus* Pic, 1922:4)
Costa Rica, Panamá
- durus* Wooldridge, 1981b:182
Brazil
- excelsus* Wooldridge, 1993a:35
Venezuela
- fragosus* Wooldridge, 1981b:178
Ecuador
- imprioris* Blackwelder, 1944:274
(syn., *oblongus* Bréthes, 1922:297; preoccupied)
Argentina
- insularis* Wooldridge, 1981b:188
Dominican Republic, Haiti, Puerto Rico
- lutrochinus* (LeConte), 1879:515
(syn., *indiscretus* Sharp, 1902a:678)
(syn., *lanosus* Casey, 1912:55)
Belize, Costa Rica, El Salvador, Guatemala,
Honduras, México, Panamá, USA (AZ, CA,
IL, OK, TX)
- magnus* Wooldridge, 1981b:179
Costa Rica, Guatemala, México
- modicus* Wooldridge, 1981b:176
Costa Rica, Ecuador, El Salvador, Guatemala,
Honduras, Panamá
- moratus* Wooldridge, 1981b:185
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Panamá
- naviculatus* (Casey), 1889:156
Costa Rica, El Salvador, Guatemala, Honduras,
México, Nicaragua, Panamá, Puerto Rico,
USA (AZ, CA, NM, NV, OK, TX)
- ovatus* (LeConte), 1854:117
(syn., *pulvereus* Casey, 1912:54)
México, USA (AL, FL, GA, LA, NC, SC, TX)
- placidus* Wooldridge, 1987a:330
Costa Rica
- plenus* Wooldridge, 1981b:185
México
- punctiventris* (Casey), 1889:159
USA (FL)
- seclusus* Wooldridge, 1987a:330
Ecuador
- seriatus* (Casey), 1889:158
(syn., *floridanus* Casey, 1912:55)

- USA (AL, FL, GA, LA, MS, NC, SC, VA)
similis Wooldridge, 1981b:182
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 Brazil, Colombia, Ecuador, Panamá, Venezuela
- LIMNICHOMORPHUS* Pic, 1922:4
curtulus Pic, 1922:4
 Vietnam (Tonkin)
ohbayashii Satô, 1966:58
 Japan (Ryukyus)
- LIMNICHUS* Latreille, 1829:510
aeneipennis Pic, 1935a:1
 Vietnam
africanus Pic, 1923a:3
 Ghana
angustulus Weise, 1877:300
 Sardinia
astruci Pic, 1922:3
 India
ater Lea 1920:279
 Australia
aurosericus Jacquelin du Val, 1857 (1859):268
 (syn., *leprieuri* Perris, 1864:282)
 Algeria, France, Italy, Spain
australis Erichson, 1842:153
 Australia, Tasmania
brevior Fairmaire, 1898:224
 Madagascar
coomani Pic, 1935a:1
 Vietnam
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curtus Pic, 1922:3
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decorus Broun, 1880:247
 New Zealand
demoulini Delève, 1968:217
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ellipticus Lea 1920:280
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incanus Kiesenwetter, 1851:584
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- inornatus* Weise, 1877:301
 (syn., *punctipennis* Baudi, 1870:64)
 Cyperus
javanicus Pic, 1922:3
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lewisi Nakane, 1963:43
 (syn., *paululus* Lewis, 1879:12)
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longitarsis Champion, 1923:275
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murinus Baudi, 1870:63
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nigripes Broun, 1893:1449
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obliteratus Champion, 1923:275
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orientalis Motschulsky, 1861:112
 Sri Lanka
palawanus Delève, 1973:18
 Philippines (Palawan)
picinus Broun, 1881:671
 New Zealand
pruinus Fleischer, 1909:244
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pumilio Obenberger, 1916:29
 Corfu
punctatus Broun, 1880:247
 New Zealand
punctipennis Kraatz, 1858:148
 Greece, Italy
pygmaeus Sturm, 1807:114
 (syn., *sericeus* Stephens, 1832:411)
 (syn., *auricomus* Reitter, 1877 (1878):180)
 (syn., *minutus* Rey, 1889:66)
 (syn., *variegatus* Guillebeau, 1886:2)
 (syn., *pygmaeus* var. Reitter, 1887:104)
 Turkestan, middle Europe, Caucasus
ruficolor Pic, 1935a:2
 N. Borneo
rufipes Pic, 1923b:6
 Ivory Coast
rufulopubens Fairmaire, 1897:368
 Madagascar

- rufus* Pic, 1923b:7
Philippines (Luzon)
- saegeri* Delève, 1968:218
Congo
- sericeus* Duftschmid, 1825:24
Europe, Asia
- subchalybeus* Reitter, 1881:85
Caucasus
- subelongatus* Pic, 1922:3
Sumbawa
- subnotatus* Champion, 1923:273
India [Kumaon]
- sulcatulus* Pic, 1922:3
Guadeloupe
- tonkineus* Fairmaire, 1888:337
Tonkin, Vietnam
- trachyformis* Pic, 1922:3
India [Kumaon]
- turkestanicus* Pic, 1905:97
Turkestan
- unistriatus* Champion, 1923:274
India [Kumaon]
- vagegluttatus* Fairmaire, 1898:223
Madagascar
- waelbroecki* Delève, 1968:215
Kinshasha
- MANDERSIA** Sharp, 1902b:62
- scymnoides* Sharp, 1902b:62
Burma, China [Shan states], India
- MARTINIUS** Spilman, 1959:118
- ripisaltator* Spilman, 1966:124
Cuba
- tellepontis* Spilman, 1959:119
Panamá
- temporalis* Wooldridge, 1988:314
Ecuador
- MEXICO** Spilman, 1972:113
- litoralis* Spilman, 1972:114
México
- PARALIMNICHUS** Delève, 1973:24
- castaneus* (Lea), 1920:279
Australia
- panamensis* Wooldridge, 1983:232
Panamá
- punctatus* (Pic), 1923b:5
(syn., *punctatus* var. *obscurior* Pic, 1923b:5)
(syn., *rufescens* Pic, 1923b:5)
Borneo, Guadalcanal, Philippines [Banguey]
- PARATHROSCINUS** Wooldridge, 1984c:121
- corrinae* Wooldridge, 1990:254
Singapore
- magnus* Wooldridge, 1990:254
Singapore
- murphyi* Wooldridge, 1990:251
Singapore
- oculatus* (Motschulsky), 1858:52
Burma, India
- orientalis* Wooldridge, 1984c:122
Philippines, Vietnam
- PELOCHARES** Mulsant and Rey, 1869:161
- acuminatus* Champion 1923:271
India [Sikkim]
- acutipennis* Pic, 1935a:2
Malaysia
- alluaudi* Delève, 1968:226
Africa Orientale
- basilewskyi* (Pic), 1955:131
Ruanda
- biroi* (Pic), 1956:75
New Guinea
- congoensis* Delève, 1968:221
Congo
- densatus* Pic, 1922:3
Java
- diversus* (Pic), 1922:3
Philippines (Los Banos)
- emarginatus* Mulsant and Rey, 1869:161
Europe
- gibbipennis* Champion, 1923:269
Europe, Burma, India [Bengal], Sri Lanka
- minutus* Delève, 1968:224
Kivu [Zaire]
- murinus* Baudi, 1870:63
Cyprus, Caucasus
- oblongulus* Champion, 1925b:263
India (Kumaon)
- orientalis* (Motschulsky), 1861:112
(syn., *horni* Delève, 1971:368)
Sri Lanka
- philippinensis* Delève, 1973:21
Philippines (Tawi Tawi)
- rugiventrus* Champion, 1923:270
(syn., *ceylanicus* Delève 1971:370)
India [Kumaon], Sri Lanka
- ryukyuensis* Satô, 1966:57
China, Japan (Ryukyus)
- sulciger* Champion, 1923:270
Sri Lanka
- trifidus* Champion, 1923:272
Burma

- versicolor* Waltl, 1838:273
(syn., *emarginatus* Mulsant and Rey, 1869:161)
(var., *opacus* Reitter, 1881:84)
Europe, New Caledonia
- vitalisi* Pic, 1935a:1
Cambodia
- PHALACRICHUS** Sharp, 1902a:678
syn., *LIMNICHALIA* Casey, 1912:52
- atomarius* Sharp, 1902a:679
(syn., *colonica* Casey, 1912:52)
Belize, Bolivia, Colombia, Costa Rica, Ecuador,
El Salvador, Guatemala, Honduras, México,
Nicaragua, Panamá, Perú, Surinam,
Trinidad, Venezuela
- diligens* Wooldridge, 1982:389
Bolivia, Brazil, Colombia, Venezuela
- durus* Wooldridge, 1982:387
Bolivia, Brazil, Ecuador, Paraguay, Perú,
Venezuela
- golbachii* Wooldridge, 1982:388
Paraguay
- latus* Wooldridge, 1982:386
Brazil, Colombia, Ecuador, Perú, Venezuela
- punctatus* Wooldridge, 1982:389
Bolivia, Brazil, Colombia, Panamá, Venezuela
- rudis* Wooldridge, 1982:385
Surinam, Venezuela
- simplex* Wooldridge, 1982:387
Bolivia, Brazil, Venezuela
- spangleri* Wooldridge, 1982:386
Ecuador, Venezuela
- sublimus* Wooldridge, 1993a:36
Venezuela
- vianai* (Pic), 1938:77
Argentina, Brazil, British Guiana, Trinidad
- PHYSEMUS** LeConte, 1854:117
syn., *DITAPHRUS* Casey, 1886:250
- excavatus* Wooldridge, 1976:182
El Salvador, Guatemala, Honduras
- latifrons* Wooldridge, 1976:180
Panamá
- levis* Wooldridge, 1984a:538
Brazil, Trinidad, Venezuela
- minutus* LeConte, 1854:117
(syn., *Ditaphrus scymnoides* Casey, 1886:250)
México, USA (AZ, CA, TX)
- mirus* Wooldridge, 1984a:538
Ecuador
- punctatus* Wooldridge, 1976:180
Colombia
- PLATYPELOCHARES** Champion, 1923:271
syn. **WOOLDRIDGEUS** Spangler, 1999:181
- latimargo* Champion, 1923:272
India [Kumaon]
- perforatus* (Spangler), 1999:182
Malaysia
- periculosissimus* Ribera and Hernando, 1999:107
Loas, Thailand, Vietnam
- petrus* Ribera and Hernando, 1999:108
Malaysia
- trifidus* Champion, 1923:272
Burma
- PSEUDEUCINETUS** Heller, 1921:155
syn., **THAUMASTODUS** Champion, 1924a:25
- PSEUDOEUCHINETUS** Satô, 1994:173
(misspelling)
- novabritannica* Delève, 1973:18
Bismarck (New Britain)
- spilmani* Spangler, 1995:399
Indonesia
- uenoi* Spangler, 1995:396
Malaysia
- zygops* Heller, 1921:156
(syn., *Thaumastodus fusiformis* Champion,
1924a:27)
India, Malaysia, New Ireland, Philippines,
Solomon Islands
- RESACHUS** Delève, 1968:263
- lineatifrons* Delève, 1968:266
Congo
- striatellus* Delève, 1968:263
Congo
- SIMPLOCARINA** Pic, 1922:4
syn., **CYRTOLIMNICHUS** Delève, 1968:267
- curticollis* Pic, 1922:4
(syn., *punctulatus* Delève, 1968:267)
Congo
- THROSCINUS** LeConte, 1874:51
- aethiops* Darlington, 1936:75
Cayman Islands, Cuba, Dominican Republic,
Haiti, Jamaica, Puerto Rico
- crotchi* LeConte, 1874:52
Mexico, USA (CA)
- politus* Casey, 1889:162
USA (TX)
- punctatus* Wooldridge, 1981a:220
Colombia
- schwarzi* Schaeffer, 1904:204
Jamaica, USA (TX)

simplex Wooldridge, 1981a:220

Colombia

spangleri Wooldridge, 1981a:218

Ecuador

TRICHOLIMNICHUS Hernando and Ribera, 2001:153

maior Hernando and Ribera, 2001:159

Malaysia

minor Hernando and Ribera, 2001:160

Malaysia

sabahensis Hernando and Ribera, 2001:160

Malaysia

Checklist of the Lutrochidae of the World

LUTROCHUS Erichson, 1847:509

BYRRMORPHUS Sharp, 1882:125

acuminatus Grouvelle, 1889:163

Venezuela

arizonicus Brown and Murvosh, 1970:1031

USA (AZ)

geniculatus Chevrolat, 1864:406

Cuba, Haiti

germari Grouvelle, 1889:163

Brazil

gigas Hinton, 1939:23

Perú

laticeps Casey, 1893:580

USA (AL, AR, DC, IL, IN, MD, MI, MO, OH, MS, OK, PA, TN, WI, WV)

luteus LeConte, 1852:42

USA (NM, OK, TX)

misellus Grouvelle, 1896:17

Brazil

montanus Grouvelle, 1896:16

Bolivia

pilula Erichson, 1847:510

Brazil

vestitus Sharp, 1882:126

Guatemala

busdam additis. Berliner Entomologische Zeitschrift 14: 49-90.

Blackburn, T. 1896. Coleoptera (exclusive of the Carabidae). pp. 254-308 in B. Spencer (ed.). Report of the work of the Horn Scientific Expedition to Central Australia. Part II. Zoology. Dalau and Company. London.

Blackwelder, R.E. 1944. Checklist of the Coleopterous Insects of Mexico, Central America, the West Indies, and South America. United States National Museum Bulletin 185, Part 2: 189-341.

Bréthes, J. 1922. Descripción de Varios Coleopteros de Buenos Aires Annales de la Sociedad de Ciencias de Argentina 94: 263-305.

Britton, E.B. 1971. A new intertidal beetle (Coleoptera: Limnichidae) from the Great Barrier Reef. Journal of Entomology (B)40(2): 89-91.

Britton, E.B. 1973. *Hyphalus wisei* sp. n., a new intertidal beetle from New Zealand (Coleoptera: Limnichidae). Records of the Auckland Institute and Museum 10: 119-122, 6 figures.

Britton, E.B. 1977. Three new intertidal species of Limnichidae (Coleoptera) from New Zealand. Records of the Auckland Institute and Museum 14: 81-85, 9 figures.

Broun, T. 1880. Manual of the New Zealand Coleoptera. Part 1. pp. 1-651. Government Printer. Wellington.

Broun, T. 1881. Manual of the New Zealand Coleoptera. Part 2. pp. 653-744. James Hughes. Wellington.

Broun, T. 1893. Manual of the New Zealand Coleoptera. Part 7. pp. 1395-1504. Government Printing Office. Wellington.

Brown, H. P. 1965. Microhabitats of some Neotropical riffle beetles (Coleoptera: Dryopoidea). American Zoologist 5(2): 151.

Brown, H.P., and C. M. Murvosh. 1970. *Lutrochus arizonicus* New Species, with notes on ecology and behavior (Coleoptera, Dryopoidea, Limnichidae). Annals of the Entomological Society of America 63(4): 1030-1035.

Casey, T.L. 1886. Descriptive notices of North American Coleoptera I. Bulletin of the California Academy of Sciences 2(6): 157-264.

Casey, T.L. 1889. Coleopterological notices I. With an appendix on the Termitophilous Staphylinidae of Panama. Annals of the New York Academy of Sciences 5: 39-198.

Casey, T.L. 1893. Coleopterological notices V. Annals of the New York Academy of Sciences 7: 281-606.

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Literature Cited

Baudi de Selve, F. 1870. Coleopterorum messis in insula Cypro et Asia minore ab Eugenio Trugui congregatae recensitio: de Europaeis notis qui-

- Casey, T.L.** 1912. Descriptive catalogue of the American Byrrhidae. *Memoirs on the Coleoptera* III: 1-69.
- Champion, G.C.** 1923. Some Indian Coleoptera (12). *Entomologist's Monthly Magazine* 59: 219-224, 247-253, 269-277.
- Champion, G.C.** 1924a. On a new subfamily of Clavicorn Coleoptera. *Entomologist's Monthly Magazine* 60(717): 25-29.
- Champion, G.C.** 1924b. *Thaumastodus fusiformis* Champ.: Synonymical note. *Entomologist's Monthly Magazine* 60(720): 116-117.
- Champion, G.C.** 1925a. Some Indian (and Tibetan) Coleoptera (17). *Entomologist's Monthly Magazine* 61: 169-181.
- Champion, G.C.** 1925b. Some Indian (and Tibetan) Coleoptera (18). *Entomologist's Monthly Magazine* 61: 260-264.
- Chevrolat, L.A.A.** 1864. Coléoptères de l'île de Cuba (suite). Notes, synonymies et descriptions d'espèces nouvelles. Cinquième mémoire. Famille des parnides, hétérocerides, passalides et lamellicornes (Tribus des coprides, aphodiides, hybosorides, géotrupidés et trogides). *Annales de la Société Entomologique de France* (4)4: 405-418.
- Crowson, R.A.** 1978. Problems of phylogenetic relationships in Dryopoidea (Coleoptera). *Entomologica Germanica* 4(3/4): 250-257.
- von Dalla Torre, K. W.** 1911. *Coleopterorum Catalogus*, pars 33: Nosodendridae, Byrrhidae, Dermestidae. W. Junk. Berlin. 96 pp.
- Darlington, P.J.** 1936. A list of the West Indian Dryopidae (Coleoptera), with a new genus and eight new species, including one from Colombia. *Psyche* 43: 65-82.
- Delève, J.** 1968. Contribution à l'étude des <<Dryopoidea>>. Les *Limnichinae* d'Afrique (Coleoptera *Limnichidae*). *Bulletin and Annales de la Société Royale d'Entomologie de Belgique* 104: 212-274.
- Delève, J.** 1971. Contribution à l'étude des Dryopoidea 23: De quelques *Ptilodactyidae* et *Limnichidae* asiatiques de la collection Pic. *Bulletin de la Société Entomologique de Belgique* 107: 352-376.
- Delève, J.** 1973. *Limnichidae*, *Dryopidae* et *Elminthidae* des Iles Philippines et de l'Archipel Bismarck (Insecta, Coleoptera, Dryopoidea). [Noona Dan Papers No. 122]. *Steenstrupia* 3(3): 17-30.
- Delève, J.** 1974. Coleoptera: *Limnichidae*. *South African Animal Life* 25: 40-41.
- Duftschnid, C.E.** 1825. *Fauna Austriae. Oder Beschreibung Österreichischen Insecten, für Angehende Freunde der Entomologie* 3: 1-289. Linz.
- Erichson, W.F.** 1842. Bericht über die Leistungen in der Naturgeschichte die Insecten, Arachniden, Crustaceen und Entomostraceen während des Jahres 1841. *Archiv für Naturgeschichte* 8: 83-287.
- Erichson, W.F.** 1847. *Naturgeschichte der Insecten Deutschlands. Abteilung 1. Coleoptera* 3(4): 481-640. Berlin.
- Fairmaire, L.** 1888. Descriptions de Coléoptères de l'Indo-Chine. *Annales de la Société Entomologique de France* (6)8: 333-378.
- Fairmaire, L.** 1897. Matériaux pour la faune Coléoptérique de la région Malgache. *Annales de la Société Entomologique de Belgique* 41: 367-406.
- Fairmaire, L.** 1898. Matériaux pour la faune Coléoptérique de la région Malgache. *Annales de la Société Entomologique de Belgique* 42: 222-260.
- Fauvel, C.A.A.** 1903. Faune analytique des Coléoptères de la Nouvell-Calédonie. *Revue d'Entomologie* 22: 203-378.
- Ferrari, J.A.** 1864. Kleiner Beitrag zur Käferfauna Venedigs und des Lido, mitgeteilt von einem süddeutschen Entomologen. *Wiener Entomologische Monatschrift* 8: 108.
- Fleischer, A.** 1909. Ein neuer *Limnichus*. *Wiener Entomologische Zeitung* 28: 244.
- Grouvelle, A.H.** 1889. Voyage de M. E. Simon au Venezuela (Décembre 1887 - Avril 1888). Coléoptères, 2^e mémoire. *Cucujidae*, *Rhysodidae*, *Dryopidae*, *Cyathoceridae*, *Heteroceridae*. *Annales de la Société Entomologique de France* (6)9: 157-166.
- Grouvelle, A.H.** 1896. Description de deux dryopides du genre *Lutrochus* Er. avec tableau général des espèces (Col.). *Bulletin de la Société Entomologique de France* 1896: 16-17.
- Guillebeau, F.** 1886. Notes entomologiques sur la faune coléoptérologique de Sinaia (Valachie) et de la Dobroudja (Roumanie). *L'Echange* 2(19): 1-2.
- Heller, K.M.** 1921. Philippinische Melandryidae. *Entomologische Blätter* 17(10-12): 155-157.
- Hernando, C. and I. Ribera.** 2000a. Taxonomic revision of the Afrotropical genus *Cyclolimnichus* Delève (Coleoptera: *Limnichidae*). *African Entomology* 8: 211-216.

- Hernando, C. and I. Ribera.** 2000b. The first species of the intertidal genus *Hyphalus* Britton from the Indian Ocean (Coleoptera: Limnichidae: Hyphalinae). *Annales de la Société Entomologique de France* (n.s.) 36(3): 239-243.
- Hernando, C. and I. Ribera.** 2000c. Notes on Limnichidae (Coleoptera): *Crytolimnichus punctulatus* Delève, new junior synonym of *Simplocarina curticolis* Pic. *Coleopterists Bulletin* 54: 291.
- Hernando, C. and I. Ribera.** 2001. *Tricholimnichus* gen. n. and three new species from Borneo (Coleoptera: Limnichidae). *Koleopterologische Rundschau* 71: 153-161.
- Hilsenhoff, W.L. and K.L. Schmude.** 1992. Riffle beetles of Wisconsin (Coleoptera: Dryopidae, Elmidae, Lutrochidae, Psephenidae) with notes on distribution, habitat, and identification. *Great Lakes Entomologist* 25: 191-213.
- Hinton, H.E.** 1939. On some new genera and species of Neotropical Dryopoidea (Coleoptera). *Transactions of the Entomological Society of London* 89: 23-46.
- Jacquelin, P.N.C. du Val.** 1857. Manuel entomologique. Genera des Coléoptères d'Europe, par Jacquelin du Val (Camille) [et L. Fairmaire]. Et plus de treizecents types par Jules Migneaux [et Théophile Deyrolle]. Deyrolle. Paris. Volume II. 285 pp.
- Kasap, H. and R. A. Crowson.** 1975. A comparative anatomical study of Elateriformia and Dascilloidea (Coleoptera). *Transactions of the Royal Entomological Society, London* 126(4): 441-495, 91 figures.
- von Kiesenwetter, M.H.** 1851. Énumération des Coléoptères trouvés dans le midi de la France et en Catalogne. *Annales de la Société Entomologique de France* (2)9: 577-656.
- Kraatz, G.** 1858. Beitrag zue Käferfauna Griechenlands. *Berliner Entomologische Zeitschrift* 2: 123-148.
- Latreille, P.A.** 1829. Les Crustacés, les Arachnides et les Insectes, distribués en familles naturelles, ouvrage formant les tomes 4 et 5 de Celui de M. le Baron Cuvier sur le Règne Animal (Deuxième Édition). Vol. 1. Paris. 584 pp.
- Lawrence, J.L. and A.F. Newton.** 1995. Families and subfamilies of Coleoptera (with selected genera, notes, references and data on family group names. pp. 779-1006 in J. Pakaluk and A. Slipinski (eds.). *Biology, phylogeny and classification of Coleoptera. Papers celebrating the 80th birthday of Roy A. Crowson.* Museum i Instytut Zoologii PAN. Warszawa.
- Lea, A. M.** 1920. On Australian Coleoptera. Family Byrrhidae. Part II. Records of the South Australian Museum 1: 273-290.
- LeConte, J.L.** 1852. Synopsis of the Parnidae of the United States. *Proceedings of the Academy of Natural Sciences of Philadelphia* 6: 41-45.
- LeConte, J.L.** 1854. Synopsis of the Byrrhidae of the United States. *Proceeding of the Academy of Natural Sciences of Philadelphia* 7: 113-117.
- LeConte, J.L.** 1874. Descriptions of new Coleoptera chiefly from the Pacific Slope of North America. *Transactions of the American Entomological Society* 5: 43-72.
- LeConte, J.L.** 1879. The Coleoptera of the alpine Rocky Mountain Region. Part II. *Bulletin of the U.S. Geological and Geographical Survey of the Territories* 5(3): 499-520.
- Lewis, G.** 1879. A catalogue of Coleoptera from the Japanese Archipelago. Taylor and Francis. London. 31 pp.
- Mascagni, A.** 1995. Nuovi dati alcuni coleotteri Italiani (Limnichidae, Dryopidae, Elmidae et Georissidae). *Bollettino della Società Entomologica Italiana* 127: 122-126.
- Motschulsky, V.** 1858. Insectes des Indes Orientales. *Etudes Entomologiques* 7: 20-122.
- Motschulsky, V.** 1861. Essai d'un Catalogue des Insectes de d'Île Ceylon, Lief. *Bulletin de la Société Impériale des Naturalistes de Moscou* 34(2): 95-155.
- Mulsant, E. and C. Rey.** 1852. Description d'un genre nouveau de la famille des Byrrhiens. *Annales de la Société Linnéenne de Lyon* (n.s.) 1: 19-21.
- Mulsant, E. and C. Rey.** 1869. Histoire naturelle des Coléoptères de France. Piluliformes. *Annales de la Société Linnéenne de Lyon* 17: 201-378.
- Nakane, T.** 1963. [untitled]. *Fragmenta Coleopterologica* 11: 43-46.
- Obenberger, J.** 1916. II. Beitrag zur Kenntnis der palaearktischen Käferfauna. *Archiv für Naturgeschichte* 82A: 9-45.
- Paulus, H.F.** 1970. Zur Morphologie und Biologie der Larven von *Pelochares* und *Limnichus*. *Senckenbergiana Biologica* 51: 77-87.
- Perris, E.** 1864. Description de quelques espèces nouvelles de Coléoptères et notes diverses. *Annales de la Société Entomologique de France* (4)4: 275-310.

- Pic, M.** 1905. Espèces et variétés nouvelles de Coléoptères paléarctiques. *L'Echange* 21: 97-100.
- Pic, M.** 1922. Nouveautés Diverses. *Mélanges Exotico-Entomologiques* 36: 1-32.
- Pic, M.** 1923a. Nouveautés Diverses. *Mélanges Exotico-Entomologiques* 39: 1-32.
- Pic, M.** 1923b. Nouveautés Diverses. *Mélanges Exotico-Entomologiques* 40: 1-32.
- Pic, M.** 1923c. Coléoptères exotiques en partie nouveaux. *L'Echange* 39: 15-16.
- Pic, M.** 1927a. Fauna Sumatrensis. Malacodermata (Col.). *Supplementa Entomologica*, Berlin 15: 62-65.
- Pic, M.** 1927b. Fauna Sumatrensis. Malacodermata (Col.). *Supplementa Entomologica*, Berlin 16: 45-49.
- Pic, M.** 1928. Nouveautés Diverses. *Mélanges Exotico-Entomologiques* 52: 1-32.
- Pic, M.** 1930. Nouveaux Coléoptères de diverses familles. *Revista de la Sociedad Entomológica de Argentina* 3: 43-46.
- Pic, M.** 1935a. Nouveautés Diverses. *Mélanges Exotico-Entomologiques* 66: 1-36.
- Pic, M.** 1935b. Nouveaux Coléoptères exotiques. *Annals and Magazine of Natural History* (10)6: 470-473.
- Pic, M.** 1938. Nouveaux Coléoptères de la République Argentine. *Revista de la Sociedad Entomológica Argentina* 10: 77-79.
- Pic, M.** 1939. Nouveaux Coléoptères de la République Argentine. *Revista de la Sociedad Entomológica Argentina* 10: 249-251.
- Pic, M.** 1952. Coléoptères nouveaux du Congo Belge. *Annales du Musée Congo belge, Tervuren*, in-8°, *Sciences Zoologiques* 12: 9
- Pic, M.** 1953. Coléoptères nouveaux de l'Afrique orientale. *Atti Museo Civico di Storia Naturale di Trieste* 19(2): 110-114.
- Pic, M.** 1954. Ptinidae, Anobiidae, Dermestidae, Byrrhidae (Col.). *Beitrag zur Fauna Perus*, Jena 4: 176-178.
- Pic, M.** 1955. Contributions à l'étude de la faune entomologique du Ruanda-Urundi (Mission P. Basilewsky 1953). XII Coleoptera Rhipiphoridae, Oedemeridae, Scaptiidae, Pedilidae, Aderidae, Anthicidae, Dermestidae, Byrrhidae, Anobiidae, Ptinidae, Cleridae, Lymexylonidae et Helodidae. *Annales du Musée Congo Belge, Tervuren*, in-8°, *Sciences Zoologiques* 63: 121-135.
- Pic, M.** 1956. Nouveaux Coléoptères de diverses familles. *Annales Historico-Naturales Musei Nationalis Hungarici* 7: 71-92.
- Pütz, A.** 1991a. *Jaechobyrhinus* - eine neue Gattung der Familie Limnichidae aus der Türkei (Col., Limnichidae). *Entomologische Nachrichten und Berichte* 35(2): 132-134.
- Pütz, A.** 1991b. Beiträge zur Insektenfauna der DDR: Coleoptera- Limnichidae. *Beitrag Ent.* Berlin 41: 375-381.
- Pütz, A.** 1998a. I. Check list and bibliography of the Limnichide of China and neighbouring countries (Coleoptera). pp. 337-339 in M. A. Jäch and L. Ji (eds.). *Water beetles of China*. Vol. 2. Wien: Zoologisch-Botanische Gesellschaft in Österreich and Wiener Coleopterologenverein.
- Pütz, A.** 1998b. II. Taxonomic revision of the genus *Cephalobyrhinus* Pic (Coleoptera). pp. 341-371 in M. A. Jäch and L. Ji (eds.). *Water beetles of China*. Vol. 2. Wien: Zoologisch-Botanische Gesellschaft in Österreich and Wiener Coleopterologenverein.
- Rey, C.** 1889. Remarques en passant. *L'Echange* 5: 66-67.
- Reitter, E.** 1877[1878]. in O. Schneider and H. Leder. Beiträge zur Kenntniss der kaukasischen Käferfauna. *Verhandlungen des Naturforschenden Vereines in Brünn* 16: 1-258.
- Reitter, E.** 1881. Bestimmungs-Tabellen der europäischen Coleopteren. IV. Enthaltend die Familien: Cistelidae, Georyssidae und Thoricidae. *Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien* 31: 67-96.
- Reitter, E.** 1901. Weitere Beiträge zue Coleopteren-Fauna des russischen Reiches. *Deutsche Entomologische Zeitschrift* 1901: 65-84.
- Ribera, I. and C. Hernando.** 1999. Taxonomic revision of *Platypelochares* Champion (Coleoptera: Limnichidae). *Koleopterologisch Rundschau* 69: 103-110.
- Satô, M.** 1965. The limnichid-beetles of Formosa. *Special Bulletin of the Lepidopterists Society of Japan* 1965: 121-125.
- Satô, M.** 1966. The Limnichid-Beetles of Japan. *Transactions of the Shikoku Entomological Society* 9(2): 55-62.
- Satô, M.** 1976. Family Limnichidae. Check-list of the Coleoptera of Japan. 7: 1-2.
- Satô, M.** 1994. Note on the genus *Pseudeucinetus* [sic] Heller and its new relative (Coleoptera, Limnichidae). *Special Bulletin of the Essa Entomological Society, Niigata* 2: 173-177.

- Satô, M.** 1997. Occurrence of a new *Hyphalus* (Coleoptera: Limnichidae) from the Ryukyu Archipelago, Japan. *Elytra*, Tokyo 25(1): 109-112.
- Schaeffer, C.F.A.** 1904. New genera and species of Coleoptera. *Journal of the New York Entomological Society* 12: 197-236.
- Sharp, D.** 1882. *Biologia Centrali-Americana*, Insecta, Coleoptera, Haliplidae, Dytiscidae, Gyrrinidae, Hydrophilidae, Heteroceridae, Parnidae, Georissidae, Cyanthoceridae. Volume 1, Part 2. 144 pp.
- Sharp, D.** 1902a. Insecta, Coleoptera, Cryptophagidae, Lathriidae, Mycetophagidae, Dermestidae, Byrrhidae. *Biologia Centrali-Americana* 2(1): 625-688.
- Sharp, D.** 1902b. Descriptions of Oriental Limnichini (Coleoptera, Fam. Byrrhidae). *Entomologist's Monthly Magazine* (2)13: 61-64.
- Spangler, P.J.** 1995. A review and two new species of the genus *Pseudeucinetus* Heller from south-east Asia and a world checklist of the Thaumastodinae (Coleoptera: Limnichidae). *Special Bulletin of the Japanese Society of Coleopterology* 4: 395-405.
- Spangler, P. J.** 1999 [1998]. A new tribe, genus, and species of limnichid beetles, *Wooldridgeus perforatus*, from Malaysia (Coleoptera: Limnichidae: Wooldridgeini). *Insecta Mundi* 12(3and4): 181-187, 32 figures.
- Spilman, T.** 1959. A study of the Thaumastodinae, with one new genus and two new species (Limnichidae). *Coleopterists Bulletin* 13: 111-122.
- Spilman, T.** 1966. A new species of *Martinius* from Cuba (Coleoptera: Limnichidae). *Coleopterists Bulletin* 20: 123-125.
- Spilman, T.** 1972. A new genus and species of jumping shore beetle from Mexico (Coleoptera: Limnichidae). *Pan-Pacific Entomologist* 48(2): 108-115.
- Stephens, J.F.** 1832. *Illustrations of British entomology*. Baldwin and Cradock, London. Volume 5. 240 pp.
- Sturm, J.** 1807. *Deutschlands Insecten von Jacob Sturm. Käfer. Deutschlands fauna in abildungen nach der natur mit beschreibungen von Jacob Sturm. Nurnberg. Volume 2.* 279 pp.
- Waltl, J.** 1838. Verzeichniss der um Passau vorkommenden seltenen Käfer nebst Beschreibung der neuen Arten. *Isis Oken* 1838(4): 263-273.
- Weise, J.** 1877. Kurze Revision der *Limnichus*- und *Pelochares* Arten. *Deutsche Entomologische Zeitschrift* 21: 299-302.
- Wollaston, T.V.** 1868. *Coleoptera Hesperidum: being an enumeration of the coleopterous insects of the Cape Verde*. J. Van Voorst. London. 285 pp.
- Wooldridge, D. P.** 1975. A key to the New World genera of the beetle family Limnichidae. *Entomological News* 86(1-2): 1-4.
- Wooldridge, D.P.** 1976. New World Limnichinae I: A revision of the genus *Physemus* LeConte (Coleoptera: Limnichidae). *Coleopterists Bulletin* 1976; 30(2): 177-182.
- Wooldridge, D.P.** 1977a. New World Limnichinae III: A revision of *Limnichites* Casey (Coleoptera: Limnichidae). *Great Lakes Entomologist* 10(4): 179-189.
- Wooldridge, D.P.** 1977b. New World Limnichinae II: *Cephalobyrrhinus* Pic (Coleoptera: Limnichidae). *Entomological News* 88(1 and 2): 29-32.
- Wooldridge, D.P.** 1978. New World Limnichinae IV. *Eulimnichus* Casey. A. Synonymies, lectotype designations, and redescriptions (Coleoptera: Limnichidae). *Great Lakes Entomologist* 11(3): 163-173.
- Wooldridge, D.P.** 1979. New World Limnichinae IV. *Eulimnichus* Casey. B. Descriptions of new species (Coleoptera: Limnichidae). *Great Lakes Entomologist* 12(1): 1-11.
- Wooldridge, D.P.** 1980. New World Limnichinae V. *Corrinea*, a new Neotropical genus (Limnichidae). *Coleopterists Bulletin* 34(1): 69-78.
- Wooldridge, D.P.** 1981a. Three new species of *Throscinus* LeConte, with notes on other species (Coleoptera: Limnichidae: Cephalobyrrhinae). *Coleopterists Bulletin* 35(2): 217-221.
- Wooldridge, D.P.** 1981b. New World Limnichinae VI. A revision of *Limnichoderus* Casey (Coleoptera: Dryopoidea: Limnichidae). *Journal of the Kansas Entomological Society* 54(1): 171-191.
- Wooldridge, D.P.** 1982. New World Limnichinae VII: *Phalacrichus* Sharp—A recharacterization and eight new species (Coleoptera: Dryopoidea: Limnichidae). *Coleopterists Bulletin* 36(2): 381-389.
- Wooldridge, D.P.** 1983. New World Limnichinae VIII. *Paralimnichus* Delève (Coleoptera: Dryopoidea: Limnichidae). *Journal of the Kansas Entomological Society* 56(2): 232-233.
- Wooldridge, D.P.** 1984a. Two new species of *Physemus* LeConte from South America (Coleoptera: Dryopoidea: Limnichidae). *Journal of the Kansas Entomological Society* 57(3): 538-539.

- Wooldridge, D.P.** 1984b. *Eulimnichus expeditus*, a new species from Central America (Dryopoidea: Limnichidae: Limnichinae). *Coleopterists Bulletin* 38(1): 57-58.
- Wooldridge, D.P.** 1984c. *Parathroscinus*, a new genus of beetles from Southeast Asia (Limnichidae: Cephalobyrrhinae). *Journal of the New York Entomological Society* 92(2): 121-124.
- Wooldridge, D.P.** 1986a. Four new Neotropical *Cephalobyrrhinus* Pic (Coleoptera: Dryopoidea: Limnichidae). *Journal of the New York Entomological Society* 94(4): 512-515.
- Wooldridge, D.P.** 1986b. A catalog of the Coleoptera of America North of Mexico. Family: Limnichidae. Agricultural Research Service, United States Department of Agriculture, Agriculture Handbook 529-48. 8 pp.
- Wooldridge, D.P.** 1987a. Two new Neotropical species of *Limnichoderus* Casey (Coleoptera: Dryopoidea: Limnichidae). *Journal of the Kansas Entomological Society* 60(2): 330-331.
- Wooldridge, D.P.** 1987b. New World Limnichinae IX: A revision of Neotropical *Byrrhinus* Motschulsky (Coleoptera: Dryopoidea: Limnichidae). *Coleopterists Bulletin* 41(4): 303-314.
- Wooldridge, D.P.** 1988. *Martinius temporalis*, a new species from Ecuador (Coleoptera: Limnichidae: Thaumastodinae). *Journal of the New York Entomological Society* 96(3): 314-315.
- Wooldridge, D.P.** 1990. Three new *Parathroscinus* from Singapore (Coleoptera: Limnichidae). *Raffles Bulletin of Zoology* 38(2): 251-255.
- Wooldridge, D.P.** 1993a. Three new Limnichidae from Cerro de la Neblina, Venezuela (Coleoptera: Dryopoidea). *Coleopterists Bulletin* 47(1): 35-37.
- Wooldridge, D.P.** 1993b. A new species of *Byrrhinus* Motschulsky from the Philippine Islands and Borneo (Coleoptera: Limnichidae). *Coleopterists Bulletin* 47(4): 359-361.
- Wooldridge, D. P.** 1995. Nomenclatural changes in *Pelochares* Mulsant of Sri Lanka (Coleoptera: Limnichidae: Limnichinae). *Coleopterists Bulletin* 49(4): 326.
- Wu, C.F.** 1937. *Catalogus insectorum sinenium*. Fan Memorial Institute of Biology. Volume III. 1312 pp.
- Zaitzev, P.** 1910. *Coleopterorum Catalogus*, pars 17: Dryopidae, Cyathoceridae, Georyssidae, Heteroceridae. W. Junk. Berlin. 68 pp.