

# A CATALOG OF THE COLEOPTERA OF AMERICA NORTH OF MEXICO

FAMILY: CURCULIONIDAE  
SUBFAMILY: HYLOBIINAE



UNITED STATES  
DEPARTMENT OF  
AGRICULTURE

AGRICULTURE  
HANDBOOK  
NUMBER 529-143c

*PREPARED BY*  
AGRICULTURAL  
RESEARCH  
SERVICE

FAMILIES OF COLEOPTERA IN AMERICA NORTH OF MEXICO

<i>Fascicle</i> <sup>1</sup>	<i>Family</i>	<i>Year issued</i>	<i>Fascicle</i> <sup>1</sup>	<i>Family</i>	<i>Year issued</i>	<i>Fascicle</i> <sup>1</sup>	<i>Family</i>	<i>Year issued</i>
1	Cupedidae	1979	45	Chelonariidae		98	Endomychidae	1986
2	Micromalthidae	1982	46	Callirhipidae		100	Lathridiidae	
3	Carabidae		47	Heteroceridae	1978	102	Biphylidae	
4	Rhysodidae	1985	48	Limnichidae	1986	103	Byturidae	
5	Amphizoidae	1984	49	Dryopidae	1983	104	Mycetophagidae	
6	Halplidae		50	Elmidae	1983	105	Ciidae	1982
8	Noteridae		51	Buprestidae		107	Prostomidae	
9	Dytiscidae		52	Cebriionidae		109	Colydiidae	
10	Gyrinidae		53	Elateridae		110	Monommatidae	
13	Sphaeriidae		54	Throscidae		111	Cephaloidea	
14	Hydroscaphidae		55	Cerophytidae		112	Zopheridae	
15	Hydraenidae		56	Perothopidae		115	Tenebrionidae	
16	Hydrophilidae		57	Eucnemidae		116	Alleculidae	
17	Georyssidae		58	Telegeusidae		117	Lagriidae	
18	Sphaeritidae		61	Phengodidae		118	Salpingidae	
20	Histeridae		62	Lampyridae		119	Mycteridae	
21	Ptiliidae		63	Cantharidae		120	Pyrochroidae	1983
22	Limulodidae		64	Lycidae		121	Othniidae	
23	Dasyceridae		65	Derodontidae		122	Inopeplidae	
24	Micropeplidae	1984	66	Nosodendriidae		123	Oedemeridae	
25	Leptinidae		67	Dermestidae		124	Melandyridae	
26	Leiodidae		69	Ptinidae		125	Mordellidae	1986
27	Scydmaenidae		70	Anobiidae	1982	126	Rhipiphoridae	
28	Silphidae		71	Bostrichidae		127	Meloidae	
29	Scaphidiidae		72	Lyctidae		128	Anthicidae	
30	Staphylinidae		74	Trogositidae		129	Pedilidae	
31	Pselaphidae		76	Cleridae		130	Euglenidae	
32	Lucanidae		78	Melyridae		131	Cerambycidae	
33	Passalidae		79	Lymexylidae		132	Bruchidae	
34	Scarabaeidae	1984	81	Sphindidae		133	Chrysomelidae	
35	Eucinetidae		82	Nitidulidae		134	Nemonychidae	
36	Helodidae		83	Rhizophagidae		135	Anthribidae	
37	Clambidae		86	Cucujidae		138	Allocorynidae	
38	Dascillidae		90	Cryptophagidae		140	Brentidae	
39	Rhipiceridae		92	Languriidae	1983	141	Platypodidae	1979
40	Byrrhidae		93	Erotylidae		142	Scolytidae	
41	Psephenidae	1983	94	Phalacridae		143	Curculionidae	1983
42	Brachypsectridae		95	Cerylonidae	1982	144	Stylopidae	
43	Artematopidae		96	Corylophidae		145	Fossil Coleoptera	
44	Ptilodactylidae		97	Coccinellidae				

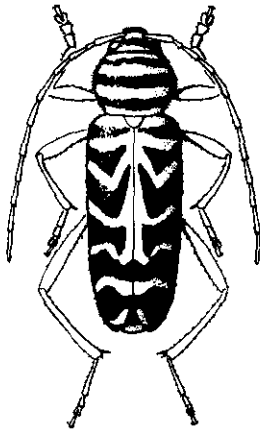
<sup>1</sup> Missing numbers are those assigned in the computer program to families not found in the United States and Canada.

Microfiche or printed copies of this publication may be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. For additional information, contact NTIS at the address above.

# A CATALOG OF THE COLEOPTERA OF AMERICA NORTH OF MEXICO

FAMILY: CURCULIONIDAE  
SUBFAMILY: HYLOBIINAE

BY  
CHARLES W. O'BRIEN  
AND  
G. BENN MARSHALL  
LABORATORY OF AQUATIC ENTOMOLOGY  
FLORIDA A&M UNIVERSITY  
TALLAHASSEE, FL



December 1986



UNITED STATES  
DEPARTMENT OF  
AGRICULTURE

AGRICULTURE  
HANDBOOK  
NUMBER 529-143c

PREPARED BY  
AGRICULTURAL  
RESEARCH  
SERVICE

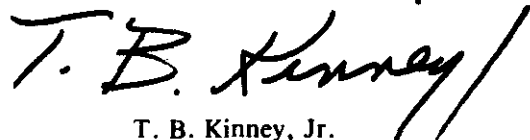
## FOREWORD

Many species of beetles are important pests of agricultural crops, stored food products, forests, wood products and structures, and fabrics. Many other species, in contrast, are beneficial in the biological suppression of pest arthropods and weeds, as well as in the decomposition of plant detritus, animal carcasses, and dung. Part of our national responsibility to American agriculture is to provide correct identification of species of American beetles so that appropriate controls can be applied.

Most information about animal species, whether agricultural, biological, or experimental, is filed under the species' scientific names. These names are therefore the keys to retrieval of such information. Because some species have been known by several names, a complete listing of these names for each species is necessary.

For the user of scientific names, an up-to-date taxonomic catalog providing currently accepted names and pertinent bibliographic and distributional data is an indispensable tool. Although taxonomic literature is constantly changing to reflect current work, the traditional published taxonomic catalog remains static with updating left to the individual user until it is revised. Production of catalogs in the past has been laborious with long printing delays resulting in data that are obsolete before being published. However, the computer now provides the capability of storing, updating, and retrieving taxonomic data; rapid publication through computer-driven typesetting machinery; and a greater degree of currentness and flexibility.

All 124 fascicles in this catalog of the beetles of America north of Mexico are produced by an original group of computer programs, designed and written during a pilot project by personnel of the Systematic Entomology Laboratory and the Communications and Data Services Division, Agricultural Research Service.



T. B. Kinney, Jr.  
Administrator  
Agricultural Research Service

## PREFACE

The Coleoptera, or beetles, are represented in the world by about 220,000 described species, of which about 24,000 occur in the United States and Canada. A comprehensive taxonomic catalog of beetles for this area has not been available except the series of world-based "Coleopterorum Catalogus" volumes (1909-present, Junk, Berlin). The Leng "Catalogue of the Coleoptera of America North of Mexico" (J. D. Sherman, Jr., Mt. Vernon, NY), which was published in 1920 with supplements to the end of 1947, is a checklist. However, it has served professional and amateur alike for nearly 60 years as the principal source of scientific names of beetles. Since 1947, many new taxa have been described and many changes in status and nomenclature have appeared in numerous scattered publications, but little effort has been made to summarize these changes.

This catalog will supplant the Leng catalog and supply additional essential information. It is produced by an original suite of storage, retrieval, and printing programs written especially for automated taxonomic catalogs.

The catalog for each family is published as a separate fascicle with its introductory text, bibliography, and index. Each family is numbered as listed, but the order of issuance of fascicles is not necessarily in numerical sequence. The publishing of separate fascicles makes data available shortly after they are assembled. Computer tapes for each fascicle are maintained for updating and necessary reprinting.

The information on each family is the responsibility of the respective author or authors. The editors modify it only to correct obvious errors and to make it conform to the requirements of the computer programs.

No original proposal for a new name, taxon, status, or classification is given, such data having been previously published, but new host and distributional data are often listed. The rules of "The International Code of Zoological Nomenclature" are followed.

The geographic scope of this catalog includes the continental United States, Canada, Greenland, and the associated continental islands. Names of taxa found only in other regions are excluded. If the range of a species extends outside these geographic limits, this fact is indicated. Inside the back cover is a map of the 12 faunal regions based on historical and faunal criteria to simplify distribution recordings. Two-letter Postal Service style abbreviations are used for States and Provinces, and faunal regions are indicated in each distribution record by a diagonal line between groups of abbreviations.

It is not the purpose of this catalog to present a complete scheme of higher classification within the order. The familial makeup is somewhat intermediate between that of R. H. Arnett in "The Beetles of the United States" (1960-62, Catholic University Press, Washington, DC) and that of R. A. Crowson in "The Natural Classification of the Families of Coleoptera" (1967, Biddles Ltd., Guildford, England). Modifications of these two systems are largely those advocated by J. F. Lawrence based in part on suggestions by taxonomic specialists for certain families.

Generic groups and higher categories within the family are arranged phylogenetically as indicated by the author of the particular fascicle, and species group names with their respective synonyms are arranged alphabetically.

Names referable to incertae sedis and nomen dubium are listed separately at the end of the nearest applicable taxon with notations as to their status.

Each available name is followed by its author, date proposed, and page number referring to the complete bibliographic citation containing the original description. Following each generic name are the type-species and method of its designation, necessary explanatory notes, and pertinent references on immature stages, taxonomy, redescription, ecology, and keys. After the specific name entry are the original genus (if different from the present

placement), type-locality, geographical distribution by State, Province, and broad extralimital units, explanatory notes, pertinent references to immature stages, taxonomy, redescription, and ecology, depository of type-specimen and its sex, and hosts.

In addition to the list under the map of faunal regions (back cover), the following abbreviations are used in this catalog:

#### ABBREVIATIONS, GENERAL

Amer. Bor.—America Borealis  
Amer. Sept.—America Septentrionalis  
Autom.—Automatic  
C. Amer.—Central America  
Co.—County  
Cosmop.—Cosmopolitan  
Design.—Designated  
F.—Female  
Holarc.—Holarctic  
Isl.—Island  
M.—Male  
Mex.—Mexico  
Monot.—Monotypy

Mus.—Museum  
N. Amer.—North America  
Orig. des.—Original designation  
Preocc.—Preoccupied  
S. Amer.—South America  
Sp.—Species  
Subseq. monot.—Subsequent monotypy  
Subsp.—Subspecies  
Taut.—Tautonymy  
Univ.—University  
USA—United States of America  
Var.—Variety  
W. Ind.—West Indies

#### MUSEUMS IN THE UNITED STATES AND CANADA<sup>1</sup>

AMNH—American Museum of Natural History, New York  
ANSP—Academy of Natural Sciences, Philadelphia, PA  
BPBM—Bernice P. Bishop Museum, Honolulu  
BYUC—Brigham Young University, Provo, UT  
CASC—California Academy of Sciences, San Francisco  
CISC—University of California, Berkeley  
CNCI—Canadian National Collections, Ottawa  
CUIC—Cornell University, Ithaca, NY  
CWOB—C. W. O'Brien Collection, Tallahassee, FL  
DHKC—D. H. Kistner Collection, Chico State College, CA  
ELSC—E. L. Sleeper Collection, Long Beach, CA  
FMNH—Field Museum of Natural History, Chicago, IL

FSCA—Florida State Collection, Gainesville, FL  
HAHC—H. & A. Howden Collection, Ottawa, Canada  
ICCM—Carnegie Museum, Pittsburgh, PA  
INHS—Illinois Natural History Survey, Urbana  
JGEC—J. G. Edwards Collection, San Jose, CA  
KMFC—K. M. Fender Collection, McMinnville, OR  
KSUC—Kansas State University, Manhattan  
LACM—Los Angeles County Museum, CA  
LSUC—Louisiana State University, Baton Rouge  
MCZC—Museum of Comparative Zoology, Harvard University, Cambridge, MA  
MSUC—Michigan State University, East Lansing  
NCSM—North Carolina State University, Raleigh  
NYSM—New York State Museum, Albany  
OSEC—Oklahoma State University, Stillwater  
OSUC—Ohio State University, Columbus  
OSUO—Oregon State University, Corvallis

<sup>1</sup>Abbreviations for U.S. and Canadian museums abridged from Arnett, R. H., Jr., and Samuelson, G. A., 1969, "Directory of Coleoptera Collections of North America (Canada Through Panama)," Cushing-Malloy, Ann Arbor, MI, 123 pp.

PMNH—Peabody Museum, Yale University, New Haven, CT  
PSUC—Pennsylvania State Museum, University Park  
PURC—Purdue University, West Lafayette, IN  
RUIC—Rutgers University, New Brunswick, NJ  
SEMC—Snow Museum, University of Kansas, Lawrence  
SJSC—San Jose State College, CA  
SLWC—S. L. Wood Collection, Provo, UT

SMSH—Stovall Collection, University of Oklahoma, Norman  
TAMU—Texas A. & M. University, College Station  
UCDC—University of California, Davis  
UICM—University of Idaho, Moscow  
UMMZ—University of Michigan, Ann Arbor  
UMRM—University of Missouri, Columbia  
USNM—U.S. National Museum of Natural History, Washington, DC  
WSUC—Washington State University, Pullman

#### MUSEUMS IN FOREIGN COUNTRIES

BMNH—British Museum (Natural History), London  
GUHC—Glasgow University, Hunterian College, Scotland  
HMOX—Hope Museum, Oxford, England  
HNHM—Hungarian Natural History Museum, Budapest  
IPZE—Institut Pflanzenschutzforschung Zweigstelle, Eberswalde, East Germany  
IRSB—Institut Royal Sciences Belgique, Brussels  
MFNB—Museum für Naturkunde (Humboldt), Berlin  
MGFT—Museum G. Frey, Tutzing, Munich, West Germany  
MHNL—Museum d'Histoire Naturelle, Lyon, France  
MNHP—Museum National d'Histoire Naturelle, Paris  
MNSL—Museum of Natural Sciences, Leipzig, East Germany  
MZBS—Museum Zoologia, Barcelona, Spain  
NHRS—Naturhistoriske Riksmuseet, Stockholm

NMPC—Narodni Museum, Prague, Czechoslovakia  
SCUT—Spinola College, University of Turin, Italy  
SMTD—Staatliches Museum für Tierkunde, Dresden, East Germany  
UNAM—Universidad Nacional Autonoma, Mexico City  
UZMC—University Zoological Museum, Copenhagen, Denmark  
UZMH—University Zoological Museum, Helsinki, Finland  
ZMAS—Zoological Museum, Academy of Sciences, Leningrad  
ZMPA—Zoological Museum, Polish Academy of Sciences, Warsaw  
ZMUL—Zoological Museum, University of Lund, Sweden  
ZMUM—Zoological Museum, University of Moscow  
ZSBS—Zoologische Sammlung Bayerischen Staates, Munich, West Germany

## ACKNOWLEDGMENTS

We are indebted to many individuals who contributed to the planning and development of this catalog. We are especially grateful to the following specialists who helped to make it as complete and accurate as possible: Richard H. Foote, Systematic Entomology Laboratory (SEL), Agricultural Research Service (ARS), for his suggestions, guidance, and encouragement; C. W. Sabrosky, SEL, for valuable counsel on nomenclatural problems; J. F. Lawrence, Division of Entomology, Commonwealth Scientific and Industrial Research Organization, Canberra, Australia, for his recommendations on higher categories; and more than 50 coleopterists in Canada, the United States, and Mexico for voluntarily contributing information about their specialty groups.

We thank the following members of the Communications and Data Services Division, ARS: Sandra Strauss, Mary Goldenbaum, and Marianne Kingston for designing and writing the computer programs, and Margaret Seldin for developing the editing system. We also thank Elaine Jamison for the data entry necessary for each fascicle.

R. D. Gordon, editor in chief  
J. R. Dogger, associate editor  
Systematic Entomology Laboratory, Agricultural Research Service  
Washington, DC

### Editorial Board

J. M. Campbell, Biosystematics Research Institute, Agriculture Canada, Ottawa, ON  
T. L. Erwin, Department of Entomology, Smithsonian Institution, Washington, DC  
H. F. Howden, Department of Biology, Carleton University, Ottawa, ON  
J. M. Kingsolver, Systematic Entomology Laboratory, ARS, Washington, DC  
P. J. Spangler, Department of Entomology, Smithsonian Institution, Washington, DC  
T. J. Spilman, Systematic Entomology Laboratory, ARS, Washington, DC  
R. E. White, Systematic Entomology Laboratory, ARS, Washington, DC

## CONTENTS

Family Curculionidae .....	1
Subfamily Hylobiinae .....	1
Tribe Hylobiini .....	1
Tribe Plinthini .....	3
Tribe Anchonini .....	4
Tribe Sternechini .....	4
Bibliography .....	6
Index .....	11



## Family CURCULIONIDAE

### Subfamily HYLOBIINAE Kirby, 1837

By C. W. O'Brien and G. B. Marshall

*Hylobidae* Kirby, 1837; *Hylobiina* Thomson, 1859; *Hylobiinae* Pascoe, 1886; *Hylobiini*, Marshall, 1932.

Though not a large subfamily in America north of Mexico, there are 10 genera and 26 species, several of which are significant economic pests. This widespread group is present in all 6 biogeographic regions, with 155 genera and 1,407 species in the world (O'Brien and Wibmer, 1978).

The first described species from America was *Hylobius pales* (Herbst) in 1797 in the genus *Curculio*. The genus *Hylobius* was established by Germar in 1817, when he named it and included two available species, *H. pineti* and *H. abietis*. Because of their economic importance the species have been treated in numerous papers, e.g., Buchanan (1935), Wood (1957), Finnegan (1961), Millers et al. (1963), and Warner (1966).

Marshall (1932) clearly defined the subfamily and discussed in detail the diagnostic characters of the group. Of great value is his key to the tribes and subtribes of the world. At this time he moved *Trachodes* and *Sthereus* to the Trachodinae. Zimmerman (1964) detailed the rather complex history of these two genera and the LeConte tribe Trachodini. He moved the genus *Trachodes* to the subfamily Acicnemidinae and the remaining 'Trachodini' to the Hylobiinae. Since the type-genus *Trachodes* does not agree with the characters of LeConte's tribe, the name Trachodini is not available for the four flightless genera now included in Hylobiinae. Hence they are included in this catalog as 'Incertae Sedis.'

Osella (1977) treated the genus *Alaocybites* Gilbert as Hylobiinae, but it clearly lacks the stout uncus diagnostic for the subfamily. Gilbert (pers. commun.) continues to treat this genus in the Raymondionyminae and we concur in this view.

*Hylobius* spp. attack a wide range of conifers and are primary pests of numerous species of *Abies*, *Larix*, *Picea*, and *Pinus*. Various species breed in the cambium and bark of logs, stumps, roots, and root collars, often killing trees. *Pachylobius picivorus* (Germar) is a secondary invader of *Pinus* spp. *Eudocimus mannerheimii* (Boheman) breeds in bald cypress trees (*Taxodium distichum* (L.) L. C. Rich). *Steremnius shermani* Fiske is associated with *Picea* in North Carolina.

One species, *Heilipus pittieri* Barber, is a pest of avocado trees, *Persea americana* Mill. Another species, *lauri* Boheman, has been introduced but not established.

The U.S. *Anchonus* is associated with driftwood on ocean beaches and has been reared from it. *Philostratus ptinoides* (Buchanan) also is associated with driftwood.

*Sternechus paludatus* (Casey), the bean stalk weevil, is an economic pest.

O'Brien (1982) described a new species (*nearcticus*) in the genus *Hilipinus*, new to the United States.

This manuscript was received April 1979 and modified December 1984.

### Tribe HYLOBIINI Kirby, 1837

#### Genus HYLOBIUS Germar

*Hylobius* Germar, 1817: 340. Type-species: *Rhynchaenus pineti* Fabricius (design. by Schoenherr, 1826: 170) = *piceus* (De Geer).

*Hylobitelus* Reitter, 1923: 24 (as subgenus; treated as valid genus by Morimoto, 1982).

Type-species: *Hylobius verrucipennis* Boheman (monot.).

*Hypomolyx* LeConte, 1876: 139 (synonymy by Wood, 1957). Type-species: *Curculio pinicola* Couper (monot.).

IMMATURE STAGES: Gardner, 1938 (larva); Kangas, 1959: 114, figs. 1-15 (larvae); Scherf, 1964; Viedma, 1963: 261; Verhoeff, 1923 (larva).

KEYS: Warner, 1966; Finnegan, 1961; Millers, Benjamin, and Warner, 1963; Wood, 1957; Buchanan, 1935; Hatch, 1971.

- aliradicis** Warner, 1966: 65, figs. 9, 16, 17, 28, 37. GA: Homerville; TX/ GA NC FL/ W. Ind.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: F.  
 ECOLOGY: Warner, 1966.  
 HOST: Larvae collected and reared from roots of young slash pine, *Pinus elliottii* Engelm.
- congener** Dalla Torre et al., 1932: 15 . ....in Canada..., also in Massachusetts (sic)...; AK NT/ BC/ AB SK MB/ MN WI MI ON PQ/ NB NS NF/ NY NJ/ ME NH VT MA RI CT/ NC. Dalla Torre, Schenkling, and Marshall (1932) give the type-locality as 'same as *confusus* Kirby.'
- confusus** Kirby, 1837: 196 (preoccupied in Dalla Torre, Schenkling, and Marshall, 1932).  
 ...in Canada..., also in Massachusetts (sic)...  
 IMMATURE STAGES: Thomas, 1964 (key, larva and pupa).  
 REDESCRIPTION: Millers, Benjamin, and Warner, 1963: 19; Warner, 1966: 71.
- pales** (Herbst), 1797: 31 (*Curculio*). North America; MN WI MI ON PQ/ NS/ MO IL IN OH/ NY PA NJ MD DC WV VA/ ME NH VT MA RI CT/ TX/ AR LA MS AL GA SC NC FL.  
 IMMATURE STAGES: Thomas, 1968 (pupa).  
 REDESCRIPTION: Blatchley and Leng, 1916; Millers, Benjamin, and Warner, 1963: 19; Warner, 1966: 71.  
 HOST: *Pinus strobus* L. (preferred host); reared from *Pinus resinosa*, *P. banksiana*, *P. sylvestris*, *P. strobus* (Finnegan, 1959); other hosts (Warner, 1966).
- pinicola** (Couper), 1864: 65 (*Curculio*). PQ; YT/ BC/ AB SK MB MT/ MN WI MI ON PQ/ NB NS NF/ CO/ NY/ ME NH VT/ NC.  
 TYPE DEPOSITORY: MCZC.
- piceus** (error) Blatchley and Leng, 1916: 188.  
 REDESCRIPTION: Wood, 1957: 39; Warner, 1966: 71.  
 HOST: Larvae attack the root systems of most conifers including *Pinus*, *Abies*, *Larix*, and *Picea* (Warner, 1966).
- radicis** Buchanan, 1935: 252, pl. 26. NY: Saratoga Co., Ballston Spa; MB/ MN WI MI ON/ KY/ NY/ MA CT.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.  
 IMMATURE STAGES: Watson, 1955 (larva).  
 REDESCRIPTION: Millers, Benjamin, and Warner, 1963: 19; Warner, 1966: 71.  
 HOST: Attacking *Pinus sylvestris* L. (Buchanan, 1935); attacking root crown of *P. nigra* Arn., *P. contorta* Dougl., *P. nigra poiretiana* Schneid., *P. strobus* L., *P. mugo* Turra., *P. banksiana* Lamb., *P. rigida* Mill., *P. resinosa* Ait. (Warner, 1966).
- rhizophagus** Millers et al., 1963: 18, figs. 1-4, 11, 12, 15, 18. WI: Sauk Co., Lone Rock; WI MI.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.  
 REDESCRIPTION: Warner, 1966: 71.  
 ECOLOGY: Millers and Benjamin, 1961; Warner, 1966.  
 HOST: Reared from *Pinus banksiana* Lamb., *P. resinosa*, *P. sylvestris* (Millers, Benjamin, and Warner, 1963).
- warreni** Wood, 1957: 40, figs. 2, 4, 6, 8-11. MB: Clear Lake Trail, Riding Mt. N. P.; BC/ AB MB/ MI ON PQ/ NB NS NF/ NY/ ME/ TN NC. Adults feed on bark of small roots, twigs, and needles of host. Larvae bore into cambium of roots and root crowns, preferring root crotches.  
 TYPE DEPOSITORY: CNCI.  
 SEX OF TYPE: M.  
 REDESCRIPTION: Warner, 1966: 72.  
 HOST: Larvae attack roots of *Pinus sylvestris*, *P. banksiana*, *P. contorta*, *P. strobus*, *P. resinosa*, *P. monticola*, *Abies balsamea*, *A. lasiocarpa*, *Larix laricina*, *Picea rubens*, *P. mariana*, *P. glauca* (Warner, 1966).

#### Genus PACHYLOBIUS LeConte

- Pachylobius** LeConte, 1876: 139. Type-species: *Liparus picivorus* Germar (monot.).
- picivorus** (Germar), 1824: 311 (*Liparus*). KY; WI MI ON/ IN KY/ NY NJ DC VA/ TX/ AR LA MS AL GA SC NC FL/ Labrador.

*stupidus* Boheman, 1834: 339 (*Hylobius*). GA.

TYPE DEPOSITORY: NHRS.

### Genus HEILIPUS Germar

*Heilipus* Germar, 1824: 399. Type-species: *Heilipus catagraphus* Germar (design. by Kuschel, 1955: 291).

IMMATURE STAGES: Garcia Arellano, 1975: 130 (larva); Dietz and Barber, 1920 (larva); Barber, 1912; Boeving and Craighead, 1930 (larva).

KEYS: Garcia Arellano, 1975 (larva).

*lauri* Boheman, 1845: 443 (introduced into North America but not established). Mex.; CA/ MO/ DC/ Mex., C. Amer., S. Amer.

TYPE DEPOSITORY: NHRS.

REDESCRIPTION: Barber, 1912 and 1919.

HOST: Reared from avocado seeds, *Persea* spp. (Barber, 1912); adults fed on leaves, buds, bark, fruit, and seed in lab (Barber, 1919); in fruit of *Persea (Lauri) drymifolia* (Schoenherr, 1845).

*pittieri* Barber, 1919: 55 (introduced into North America but not established; reared in DC from seed received from Costa Rica). Costa Rica; DC/ C. Amer. Has been synonymized with *lauri* by Monte (1935), and perhaps is only a geographic form.

TYPE DEPOSITORY: USNM.

HOST: Reared from seeds of *Persea pittieri* Mez. (Barber, 1919).

*squamosus* (LeConte), 1824: 171, pl. XI, fig. 10 (*Pissodes*) (frequently misidentified as *apiatus* Olivier or *farinosus* Panzer). GA; VA/ AL TN GA SC NC FL. *H. apiatus* Olivier and *H. farinosus* Panzer are South American species erroneously attributed to Florida.

*squamosus* Boheman, 1836: 161 (preoccupied LeConte, 1824). *America boreali*. This species name has been attributed to Boheman, 1836, by American authors, but it was described in 1824 by J. E. LeConte. LeConte apparently sent representatives to Dejean from whose collection Boheman obtained specimens for his description using the same specific name.

TYPE DEPOSITORY: NHRS.

### Genus HILIPINUS Champion

*Hilipinus* Champion, 1902: 51. Type-species: *Heilipus ascius* Germar (design. by Kuschel, 1955: 293).

*nearcticus* O'Brien, 1982: 213, figs. 1-3. MS: Hancock Co., Gainesville; LA MS FL.

TYPE DEPOSITORY: CWOB.

SEX OF TYPE: M.

### Genus EUDOCIMINUS Leng

*Eudociminus* Leng, 1918: 210 (replacement name for *Eudocimus* Schoenherr, 1836). Type-species: *Eudocimus mannerheimii* Boheman (automat.).

*Eudocimus* Boheman, 1836: 240 (preoccupied Wagler, 1832, for a genus of birds; incorrectly attributed to Schoenherr). Type-species: *Eudocimus mannerheimii* Boheman (orig. des.).

REDESCRIPTION: LeConte and Horn, 1876; Blatchley and Leng, 1916.

*mannerheimii* (Boheman), 1836: 241 (*Eudocimus*). Savannah Americae borealis; DC NJ NY/ LA MS AL GA NC FL.

TYPE DEPOSITORY: NHRS.

*mannerheimi*, error.

REDESCRIPTION: LeConte and Horn, 1876; Blatchley and Leng, 1916.

HOST: Larvae mine the inner bark of injured and recently fallen bald cypress, *Taxodium distichum* L. (Blatchley and Leng, 1916).

### Tribe PLINTHINI Lacordaire, 1863

*Plinthides* Lacordaire, 1863; *Plinthini* Reitter, 1912; *Plinthina* Marshall, 1932.

Genus **STEREMNIUS** Schoenherr

**Steremnius** Schoenherr, 1836: 242. Type-species: *Steremnius tuberosus* Gyllenhal (orig. des.).

*Paraplinthus* Faust, 1892: 49. Type-species: Not yet designated.

KEYS: Hatch, 1971.

**carinatus** (Boheman), 1842: 334 (*Plinthus*). America borealis occidentalis; AK/ BC WA OR/ CA.

TYPE DEPOSITORY: NHRS.

**shermani** (Fiske), 1906: 31 (*Paraplinthus*). NC: Transylvania Co., on Pisgah Ridge; VA/ TN NC.

TYPE DEPOSITORY: USNM.

HOST: Adults collected on the underside of freshly cut spruce chips lying on the ground (Fiske, 1906).

**tuberosus** Gyllenhal, 1836: 243. Nova Hollandia; AK/ BC WA OR/ CA.

TYPE DEPOSITORY: NHRS.

*scrobiculatus* Mannerheim, 1843: 292 (*Heilipus*). CA.

TYPE DEPOSITORY: UZMH.

Tribe **ANCHONINI** Faust, 1892

Anchoninae Faust, 1892; Anchonina Champion, 1902.

Genus **ANCHONUS** Schoenherr

**Anchonus** Schoenherr, 1826: 257. Type-species: *Rhynchaenus suillus* Fabricius (orig. des.).

IMMATURE STAGES: Anderson, 1952: 291 (larva), figs. 1-22.

**blatchleyi** Sleeper, 1954: 185. FL: Dade Co., near Matheson Hammock; FL.

TYPE DEPOSITORY: ELSC.

SEX OF TYPE: M.

**duryi** Blatchley, 1916: 521, fig. 114. FL; FL.

TYPE DEPOSITORY: PURC.

**floridanus** Schwarz, 1894: 42. FL: Cocoonut Grove, on inner shore of Biscayne Bay; FL.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Blatchley, 1916: 251.

Tribe **STERNECHINI** Lacordaire, 1863

Sternechides Lacordaire, 1863; Sternechini Marshall, 1932.

Genus **STERNECHUS** Schoenherr

**Sternechus** Schoenherr, 1826: 251. Type-species: *Orobitis trachyptomus* Germar (orig. des.).

*Plectromodes* Casey, 1895: 829. Type-species: Not yet designated.

**armatus** (Casey), 1895: 831 (*Plectromodes*). Southern Illinois; MO IL/ NJ/ AR GA NC FL.

TYPE DEPOSITORY: USNM.

**paludatus** (Casey), 1895: 830 (*Plectromodes*). AZ; AZ.

TYPE DEPOSITORY: USNM.

## Unplaced Genera of Hylobiinae

Genus **STHEREUS** Motschulsky

**Sthereus** Motschulsky, 1845: 373, pl. II, tab. VII (incertae sedis). Type-species: *Sthereus quadrituberculatus* Motschulsky (design. by Buchanan, 1936: 178). This genus was demonstrated to be 'flightless Hylobiinae' by Zimmerman, 1964.

*Aparapion* (of authors).

**Lobosoma** Buchanan, 1936: 180 (incertae sedis; synonymy by Korotyaev, 1976: 45). Type-species: *Trachodes horridus* Mannerheim (orig. des.).

**Philostratus** Zimmerman, 1964: 29 (incertae sedis; synonymy by Korotyaev, 1976: 45). Type-species: *Trachodes ptinoides* Germar (orig. des.).

*Trachodes*, of authors.

TAXONOMY: Buchanan, 1936; Zimmerman, 1964.

KEYS: Buchanan, 1936; Zimmerman, 1964; Hatch, 1971.

**horridum** (Mannerheim), 1852: 354 (*Trachodes*). AK: Sitka; AK/ BC WA OR.

TYPE DEPOSITORY: UZMH.

REDESCRIPTION: Buchanan, 1936: 180; Hatch, 1971: 310.

**multituberculatus** Buchanan, 1936: 179. OR: Astoria; AK/ BC OR.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**ptinoides** (Germar), 1824: 327 (*Trachodes*). Unalaska; AK/ BC WA/ NS/ CA.*borealis* Motschulsky, 1845: 374 (synonymy by Korotyaev, 1976: 45). Kamtschatka.*fasciculatus* Motschulsky, 1845: 374 (synonymy by Korotyaev, 1976: 45). Kamtschatka.

REDESCRIPTION: Hatch, 1971: 309.

HOST: Breeds in or is found under driftwood (Mannerheim, 1853: 240; Van Dyke, 1921: 166).

KEYS: Zimmerman, 1964.

**quadrituberculatus** (Motschulsky), 1845: 375 (*Trachodes*). AK: Sitka; AK/ BC WA OR/ CA.

HOST: Found on bark and in logs of pine (Mannerheim, 1852: 355).

**Genus GASTROTAPHRUS** Buchanan**Gastrotaphrus** Buchanan, 1936: 180 (incertae sedis). Type-species: *Gastrotaphrus barberi* Buchanan (orig. des.).

KEYS: Zimmerman, 1964.

**barberi** Buchanan, 1936: 181. CA: Eureka; BC WA OR/ CA.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

REDESCRIPTION: Hatch, 1971: 310.

**NOMEN NUDUM***heros* LeConte, 1850: 233 (*Hylobius*) (originally cited in list of species without description).This name is often treated as synonym of *Hylobius pinicola* Couper.

## BIBLIOGRAPHY

- Anderson, W. H.**  
 1952 Larvae of some genera of Cossoninae (Coleoptera: Curculionidae). *Annals of the Entomological Society of America*, vol. 45, no. 2, pp. 281-309, illus.
- Barber, H. S.**  
 1912 Note on the avocado weevil (*Heilipus lauri* Boheman). *Proceedings of the Entomological Society of Washington*, vol. 14, no. 3, pp. 181-183, illus.
- Barber, H. S.**  
 1919 Avocado seed weevils. *Proceedings of the Entomological Society of Washington*, vol. 21, no. 3, pp. 53-60, illus.
- Blatchley, W. S.**  
 1916 In Blatchley and Leng, *Rhynchophora or weevils of north eastern America*. The Nature Publishing Company, Indianapolis, 682 pp., illus.
- Blatchley, W. S. and C. W. Leng**  
 1916 *Rhynchophora or weevils of north eastern America*. The Nature Publishing Company, Indianapolis, 682 pp., illus.
- Boeving, A. G. and F. C. Craighead**  
 1931 An illustrated synopsis of the principal larval forms of the order Coleoptera. *Entomologica Americana*, n. ser., vol. 11, pp. 1-351, illus.
- Boheman, C. H.**  
 1834 In Schoenherr, *Genera et species curculionidum, cum synonymia hujus familiae*. Paris, vol. 2, pp. 1-669.
- Boheman, C. H.**  
 1836 In Schoenherr, *Genera et species curculionidum, cum synonymia hujus familiae*. Paris, vol. 3, pp. 1-858.
- Boheman, C. H.**  
 1842 In Schoenherr, *Genera et species curculionidum, cum synonymia hujus familiae*. Paris, vol. 6, pt. 2, pp. 1-495.
- Boheman, C. H.**  
 1845 In Schoenherr, *Genera et species curculionidum, cum synonymia hujus familiae*. Paris, vol. 8, pt. 2, pp. 1-504.
- Buchanan, L. L.**  
 1935 An apparently new species of North American *Hylobius*, with synoptic key (Coleoptera: Curculionidae). *Proceedings of the Entomological Society of Washington* (1934), vol. 36, nos. 8-9, pp. 252-256, illus.
- Buchanan, L. L.**  
 1936 Systematic notes on the Trachodinae (Coleoptera: Curculionidae). *Proceedings of the Entomological Society of Washington* (1935), vol. 37, no. 9, pp. 178-183.
- Burke, H. R. and D. M. Anderson**  
 1976 Systematics of larvae and pupae of American Curculionoidea: status report, historical review and bibliography. *The Southwestern Entomologist*, vol. 1, no. 2, pp. 56-73.
- Casey, T. L.**  
 1895 Coleopterological notices. VI. *Annals of the New York Academy of Sciences*, vol. 8, pp. 435-838.
- Champion, G. C.**  
 1902 *Rhynchophora. Curculionidae. Curculioninae (part)*. In *Biologia Centrali-Americana, Insecta. Coleoptera*. F. Godman and O. Salvin, eds. London, vol. 4, pt. 4, pp. 1-144, illus.

- Couper, W.**  
1864 List of Coleoptera and Diptera taken at Quebec, and other parts of lower Canada. Transactions of the Literary and Historical Society of Quebec, n. ser., pt. 2, pp. 75-93.
- Dalla Torre, K. W. von, S. Schenkling, and G. A. Marshall**  
1932 Curculionidae: Subfam. Hylobiinae. In Coleopterorum catalogus auspiciis et auxilio W. Junk editus a S. Schenkling. Berlin, pt. 122, (vol. 28), 112 pp.
- De Geer, C.**  
1775 Memoires pour servir a l'histoire des insectes. Hesselberg, Stockholm, vol. 5, 448 pp., illus.
- Dietz, H. F. and H. S. Barber**  
1920 A new avocado weevil from the Canal Zone. Journal of Agricultural Research, vol. 20, no. 2, pp. 111-115, illus.
- Fabricius, J. C.**  
1792 Entomologia systematica emendata et aucta. Secundum classes, ordines, genera, species adjectis synonymis, locis observationibus, descriptionibus. Hafniae, vol. 1, XX, 330 and 538 pp.
- Faust, J.**  
1892 Notizen ueber Ruesselkaefer. Stettiner Entomologische Zeitung, vol. 53, nos. 1-3, pp. 44-52.
- Finnegan, R. J.**  
1959 The pales weevil, *Hylobius pales* (Hbst.), in southern Ontario. The Canadian Entomologist, vol. 91, pp. 664-670.
- Finnegan, R. J.**  
1961 A field key to the North American species of *Hylobius* (Curculionidae). The Canadian Entomologist, vol. 93, no. 7, pp. 501-502.
- Fiske, W. F.**  
1906 A new species of the curculionid genus *Paraplinthus*. Proceedings of the Entomological Society of Washington, vol. 8, nos. 1-2, pp. 31-32.
- Garcia Arellano, P.**  
1975 Clave para la identificacion de las larvas barrenadoras del hueso del aguacate en Mexico. Folia Entomologica Mexicana, nos. 31-32, pp. 127-131, illus.
- Gardner, J. C. M.**  
1938 Immature stages of Indian Coleoptera (24, Curculionidae contd.). Indian Forest Records (New Series) Entomology, vol. 3, no. 12, pp. 227-261, illus.
- Germar, E. F.**  
1817 Miscellen und Correspondenz-Nachrichten. Magazin der Entomologie, vol. 2, pp. 339-341.
- Germar, E. F.**  
1824 Insectorum species novae aut minus cognitae, descriptionibus illustratae. Hendel, Halae, vol. 1, XXIV and 624 pp., illus.
- Gyllenhal, L.**  
1836 In Schoenherr, Genera et species curculionidum, cum synonymia hujus familiae. Paris, vol. 3, pp. 1-858.
- Hatch, M. H.**  
1971 The beetles of the Pacific Northwest. University of Washington Publications in Biology, vol. 16, pt. V, 662 pp., illus.
- Herbst, J. F. W.**  
1797 Natursystem aller bekannten in- und auslaendischen Insekten, als eine Fortsetzung der von Bueffonschen Naturgeschichte. Berlin, vol. 7, 346 pp.

- Kangas, E.**  
1959 Systematische Untersuchungen ueber die Larven der *Hylobius piceus* De G., *abietis* L. und *pinastri* Gyll. (Col., Curculionidae). Suomen Hyoenteistieteellinen Aikakauskirja (Annales Entomologici Fennici), vol. 25, no. 2, pp. 110-118, illus.
- Kirby, W.**  
1837 The insects, Coleoptera. In Richardson, Fauna Boreali-Americana; or the zoology of the northern parts of British America: containing descriptions of the objects of natural history collected on the late northern land expeditions, under command of Captain Sir John Franklin, R. N. Josiah Fletcher, Norwich, xxxix and 325 pp., illus.
- Korotyaev, B. A.**  
1976 Review of weevils (Coleoptera, Curculionidae) of the Kamchatka Peninsula. Trudy Zoological Institute of Leningrad, vol. 62, pp. 43-52.
- Kuschel, G.**  
1955 Nuevas sinonimias y anotaciones sobre Curculionoidea (Coleoptera). Revista Chilena de Entomologia, vol. 4, pp. 261-312.
- Lacordaire, T.**  
1863 Histoire naturelle des insectes. Genera des Coleopteres ou expose methodique et critique de tous les genres proposes jusqu'ici dans cet ordre d'insectes. Paris, vol. 6, 637 pp.
- LeConte, J. E.**  
1824 Description of some new species of North American insects. Annals of the Lyceum of Natural History of New York, vol. 1, pp. 169-173, illus.
- LeConte, J. L.**  
1850 General remarks upon the Coleoptera of Lake Superior. Pp. 201-242. In Agassiz, Lake Superior: Its physical character, vegetation, and animals, compared with those of other and similar regions. Gould, Kendall and Lincoln, Boston, x and 428 pp., illus.
- LeConte, J. L.**  
1876 In LeConte and Horn, The Rhynchophora of America, north of Mexico. Proceedings of the American Philosophical Society, vol. 15, pp. 1-455.
- LeConte, J. L. and G. H. Horn**  
1876 The Rhynchophora of America, north of Mexico. Proceedings of the American Philosophical Society, vol. 15, pp. 1-455.
- Leng, C. W.**  
1918 Notes on some changes in the list of Coleoptera. Journal of the New York Entomological Society, vol. 26, nos. 3-4, pp. 201-211.
- Mannerheim, G. C. G.**  
1843 Beitrag zur Kaefer-Fauna der aleutischen Inseln, der Insel Sitkha und Neu-Californiens. Bulletin de la Societe Imperiale des Naturalistes de Moscou, vol. 16, no. 2, pp. 175-314.
- Mannerheim, G. C. G.**  
1852 Zweiter Nachtrag zur Kaefer-Fauna der nord-amerikanischen Laender des russischen Reiches. Bulletin de la Societe Imperiale des Naturalistes de Moscou, vol. 25, no. 1, pp. 283-387.
- Mannerheim, G. C. G.**  
1853 Dritter Nachtrag zur Kaefer-Fauna der nord-amerikanischen Laender des russischen Reiches. Bulletin de la Societe Imperiale des Naturalistes de Moscou, vol. 26, pp. 95-273.
- Marshall, G. A. K.**  
1932 Notes on the Hylobiinae (Col., Curc.). Annals and Magazine of Natural History (series 10), vol. 9, pp. 341-355, illus.



**Millers, I. and D. M. Benjamin**

- 1961 A new *Hylobius* problem in jack pine plantations. Proceedings of the North Central Branch, Entomological Society of America, vol. 16, pp. 88-89.

**Millers, I., D. M. Benjamin, and R. E. Warner**

- 1963 A new *Hylobius* weevil associated with jack pine stand deterioration (Coleoptera: Curculionidae). The Canadian Entomologist, vol. 95, no. 1, pp. 18-22, illus.

**Monte, O.**

- 1935 *Hilipus montei*, n. sp.—E o primeiro curculionideo que se encontra atacando o abacate no Brazil. Boletim de Agricultura, Zootecnia e Veterinaria, Minas Gerais, nos. 8-10, pp. 1-5, illus.  
Separate only seen.

**Motschulsky, V. von**

- 1845 Observations sur le Musee Entomologique de l'Universite Imperiale de Moscou. Bulletin de la Societe Imperiale des Naturalistes de Moscou, vol. 18, pp. 332-388, illus.

**O'Brien, C. W.**

- 1982 *Hilipinus nearcticus*, new species in a genus new to the United States (Curculionidae: Coleoptera). The Florida Entomologist, vol. 65, no. 2, pp. 211-215, illus.

**O'Brien, C. W. and G. J. Wibmer**

- 1978 Numbers of genera and species of Curculionidae (Coleoptera). Entomological News, vol. 89, nos. 2-3, pp. 89-92.

**Olivier, A. G.**

- 1807 Entomologie, ou histoire naturelle des insectes, avec leurs caracteres generiques et specifiques, leur description, leur synonymie, et leur figure enluminee. Desray, Paris, vol. 5, pp. 1-612.

**Osella, G.**

- 1977 Revisione della sottofamiglia Raymondionyminae (Coleoptera, Curculionidae). Memorie del Museo Civico di Storia Naturale di Verona (II Serie), Sezione Scienze della Vita N. I. 1977, 162 pp., illus.

**Panzer, G. W. F.**

- 1798 Johann Euseb Voets Beschreibungen und Abbildungen hartschaalichter Insekten Coleoptera Linn. Aus dem Original getreu uebersetzt mit der in selbigem fehlenden Synonymie und bestaendigem Commentar. Palm, Erlangen, vol. 4, pp. 1-120, illus.

**Pascoe, F. P.**

- 1886 List of Curculionidae found by Mr. Van Volxem in the neighbourhood of Rio Janeiro. Bulletin ou Comptes-Rendus des Seances, Annales de la Societe Entomologique de Belgique, 1886, vol. 30, pp. CLI-CLVI.

**Reitter, E.**

- 1913 Bestimmungs-Schlüssel der mir bekannten europaeischen Gattungen der Curculionidae, mit Einschluss der mir bekannten Gattungen aus dem palaearktischen Gebiete. Verhandlungen des naturforschenden Vereines in Bruenn (1912), vol. 51, pp. 1-90.

**Scherf, H.**

- 1964 Die Entwicklungsstadien der mitteleuropaeischen Curculioniden (Morphologie, Bionomie, Oekologie). Abhandlungen der senckenbergischen naturforschenden Gesellschaft, no. 506, pp. 1-335, illus.

**Schoenherr, C. J.**

- 1826 Curculionidum dispositio methodica cum generum characteribus, descriptionibus atque observationibus variis seu prodromus ad synonymiae insectorum. Lipsiae, pt. 4, 338 pp.

**Schoenherr, C. J.**

- 1836 Genera et species curculionidum, cum synonymia hujus familiae. Paris, vol. 3, pp. 1-858.

**Schoenherr, C. J.**

- 1845 Genera et species curculionidum, cum synonymia hujus familiae. Paris, vol. 8, pt. 2, pp. 1-504.

**Schwarz, E. A.**

- 1894 Descriptions of two rhynchophorous Coleoptera from semitropical Florida. Proceedings of the Entomological Society of Washington, vol. 3, no. 1, pp. 42-45.

**Sleeper, E. L.**

- 1954 New Rhynchophora II (Coleoptera, Curculionidae). The Ohio Journal of Science, vol. 54, no. 3, pp. 180-186, illus.

**Thomas, H. A.**

- 1968 A description of the pupa of the pales weevil, *Hylobius pales*, and a method for identifying its sex. The Canadian Entomologist, vol. 100, no. 4, pp. 434-437, illus.

**Thomas, J. B.**

- 1964 A key to the larvae and pupae of three weevils (Coleoptera: Curculionidae). The Canadian Entomologist, vol. 96, no. 11, pp. 1417-1420, illus.

**Thomson, C. G.**

- 1859 Skandinaviens Coleoptera, synoptiskt bearbetade. Lund, vol. 1, pp. 1-290.

**Van Dyke, E. C.**

- 1921 Coleoptera from the Pribilof Islands, Alaska. Proceedings of the California Academy of Sciences, Fourth ser., vol. 11, no. 14, pp. 156-166.

**Verhoeff, K. W.**

- 1923 Beitrage zur Kenntnis der Coleopteren-Larven mit besonderer Beruecksichtigung der Clavicornia. Archiv fuer Naturgeschichte Abteilung A, vol. 89, no. 1, pp. 1-109.

**Viedma, M. G. de**

- 1963 Contribucion al conocimiento de las larvas de Curculionidae lignivoros europeos (Coleoptera). EOS, Revista Espanola de Entomologia, vol. 39, pp. 257-277, illus.

**Warner, R. E.**

- 1966 A review of the *Hylobius* of North America, with a new species injurious to slash pine (Coleoptera: Curculionidae). The Coleopterists' Bulletin, vol. 20, no. 3, pp. 65-81, illus.

**Watson, W. Y.**

- 1955 A description of the full-grown larva of *Hylobius radialis* Buch. (Coleoptera: Curculionidae). The Canadian Entomologist, vol. 87, pp. 37-41, illus.

**Wood, S. L.**

- 1957 The North American allies of *Hylobius piceus* (De Geer) (Coleoptera: Curculionidae). The Canadian Entomologist, vol. 89, no. 1, pp. 37-43, illus.

**Woodruff, R. E.**

- 1963 An avocado weevil (*Heilipus apiatus* Oliv.) (Coleoptera: Curculionidae). Florida Department of Agriculture, Division of Plant Industry, Entomology Circular No. 11, 1 p., illus.

**Zimmerman, E. C.**

- 1964 On the supposed North American Trachodinae (Coleoptera: Curculionidae). The Coleopterists' Bulletin, vol. 18, no. 1, pp. 25-32.

## INDEX

Names are indexed as follows:

**CAPITALS:** All names for taxa above the generic level;

**Boldface:** Valid generic and subgeneric names;

**Roman:** Valid specific and subspecific names;

*Italic:* All invalid names such as synonyms, nomina nuda, and extra-limital taxa even though valid.

Parentheses around an author's name indicate that the specific name has been transferred from its original genus. The generic name following the author's name indicates the present placement of the species. Synonyms of species-group names are listed with the original spelling.

aliradicis Warner, <i>Hylobius</i> .....	2	<i>Hylobitelus</i> Reitter .....	1
<b>ANCHONINI</b> .....	4	<b>Hylobius</b> Germar .....	1
<b>Anchonus</b> Schoenherr .....	4	<i>Hypomolyx</i> LeConte.....	1
<i>Aparapion</i> .....	4	lauri Boheman, Heilipus .....	3
armatus (Casey), <i>Sternechus</i> .....	4	<b>Lobosoma</b> Buchanan .....	4
barberi Buchanan, <i>Gastrotaphrus</i> .....	5	<i>mannerheimi</i> .....	3
blatchleyi Sleeper, <i>Anchonus</i> .....	4	mannerheimii (Boheman), <i>Eudociminus</i> .....	3
<i>borealis</i> Motschulsky, <i>Sthereus</i> .....	5	multituberculatus Buchanan, <i>Sthereus</i> .....	5
carinatus (Boheman), <i>Steremnius</i> .....	4	nearcticus O'Brien, Hilipinus.....	3
<i>confusus</i> Kirby, <i>Hylobius</i> .....	2	<b>Pachylobius</b> LeConte.....	2
congener Dalla Torre et al., <i>Hylobius</i> .....	2	pales (Herbst), <i>Hylobius</i> .....	2
duryi Blatchley, <i>Anchonus</i> .....	4	paludatus (Casey), <i>Sternechus</i> .....	4
<b>Eudociminus</b> Leng.....	3	<i>Paraplithus</i> Faust.....	4
<i>Eudocimus</i> Boheman.....	3	<b>Philostratus</b> Zimmerman.....	4
<i>fasciculatus</i> Motschulsky, <i>Sthereus</i> .....	5	<i>piceus</i> .....	2
floridanus Schwarz, <i>Anchonus</i> .....	4	picivorus (Germar), <i>Pachylobius</i> .....	2
<b>Gastrotaphrus</b> Buchanan.....	5	pinicola (Couper), <i>Hylobius</i> .....	2
<b>Heilipus</b> Germar.....	3	pittieri Barber, Heilipus.....	3
<i>heros</i> (LeConte), nomen.....	5	<i>Plectromodes</i> Casey.....	4
<b>Hilipinus</b> Champion.....	3	<b>PLINTHINI</b> .....	3
horridum (Mannerheim), <i>Sthereus</i> .....	5	ptinoides (Germar), <i>Sthereus</i> .....	5
<b>HYLOBIINI</b> .....	1	quadrituberculatus (Motschulsky), <i>Sthereus</i> .....	5
		radicis Buchanan, <i>Hylobius</i> .....	2
		rhizophagus Millers et al., <i>Hylobius</i> .....	2
		<i>scrobiculatus</i> (Mannerheim), <i>Steremnius</i> .....	4
		shermani (Fiske), <i>Steremnius</i> .....	4
		<i>squamosus</i> Boheman, Heilipus.....	3
		<i>squamosus</i> (LeConte), Heilipus.....	3
		<b>Steremnius</b> Schoenherr.....	4
		<b>STERNECHINI</b> .....	4
		<i>Sternechus</i> Schoenherr.....	4
		<i>Sthereus</i> Motschulsky.....	4
		<i>stupidus</i> (Boheman), <i>Pachylobius</i> .....	3
		<i>Trachodes</i> .....	5
		tuberosus Gyllenhal, <i>Steremnius</i> .....	4
		warreni Wood, <i>Hylobius</i> .....	2



AB Alberta	MB Manitoba	ON Ontario
AK Alaska	MD Maryland	OR Oregon
AL Alabama	ME Maine	PA Pennsylvania
AR Arkansas	MI Michigan	PE Prince Edward Island
AZ Arizona	MN Minnesota	PM St. Pierre-Miquelon
BC British Columbia	MO Missouri	PQ Quebec
CA California	MS Mississippi	RI Rhode Island
CO Colorado	MT Montana	SC South Carolina
CT Connecticut	NB New Brunswick	SD South Dakota
DC District of Columbia	NC North Carolina	SK Saskatchewan
DE Delaware	ND North Dakota	TN Tennessee
FL Florida	NE Nebraska	TX Texas
GA Georgia	NF Newfoundland	UT Utah
GL Greenland	NH New Hampshire	VA Virginia
IA Iowa	NJ New Jersey	VT Vermont
ID Idaho	NM New Mexico	WA Washington
IL Illinois	NS Nova Scotia	WI Wisconsin
IN Indiana	NT Northwest Territories	WV West Virginia
KS Kansas	NV Nevada	WY Wyoming
KY Kentucky	NY New York	YT Yukon Territory
LA Louisiana	OH Ohio	
MA Massachusetts	OK Oklahoma	