



## **CATALOG OF THE DOLICHOPODIDAE (DIPTERA) OF AMERICA NORTH OF MEXICO**

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CATALOG OF THE DOLICHOPODIDAE  
(DIPTERA) OF AMERICA NORTH  
OF MEXICO

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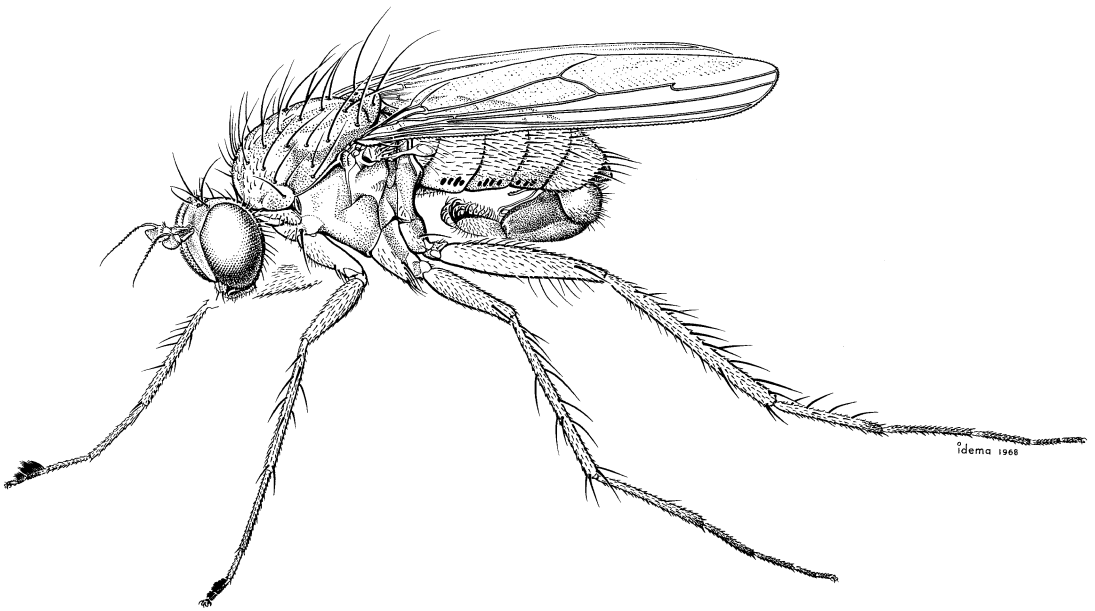
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*Dolichopus cuprinus* Wiedemann, male.

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## ABSTRACT

A catalog of the American species of Dolichopodidae north of Mexico is provided. Fifty-five valid genera and 1288 valid species and 3 subspecies in 14 subfamilies are listed. Compared to the North American catalog by Foote et al. (1965), 224 species are added, and there are 15 replacement names, 84 synonyms, 5 species removed from synonymy, and 76 transfers, as well as 10 species included in the previous catalog that are removed from the new list. Furthermore, 13 additional genera and 3 generic synonymies are included. Nomenclatural changes proposed in this catalog consist of 1 new generic synonymy, 4 new synonyms, 2 new names, 40 new combinations, and 1 species newly removed from synonymy. Additional nomenclatural changes and problems are discussed. All validly named taxa described before February 2004 are included. For each genus, the species list is preceded by notes on its distribution, biology, and ecology as well as a list of pertinent keys and revisions, when such information is available. For each valid species name, the list includes the author, year of publication, page number of original description, type depository and locality, and distribution in North America by state or province and occurrence in other realms, as well as taxonomic notes wherever applicable. Additional distribution records from the literature have been added. All known synonyms of genera and species as well as errors, emendations, and misidentifications are included. A bibliography of 492 publications is provided as well as an index to over 1838 included names. Statistics and comments on the history of North American dolichopodid research are presented. The diversity and distribution of Nearctic Dolichopodidae and their relationships with the fauna of other realms is tabulated and discussed.

## INTRODUCTION

The most recent catalog of Dolichopodidae of America north of Mexico was compiled by Foote et al. (1965), which included all published names up to the end of 1962. Of all the regional catalogs currently available for the family Dolichopodidae, Foote et al. (1965) is the oldest. Since 1962, almost 60 taxonomic papers on Nearctic dolichopodids have been published. Some of the more notable contributions include Robinson's (1964) review of the dolichopodids of the southeastern United States and adjacent regions and the revisionary studies of Bickel (1985, 1994) and Hurley (1985, 1995), which added a large number of new species and many nomenclatural changes. Recently, Poole (1996) compiled a checklist of Nearctic Dolichopodidae, but the scope of this work was limited to a list of generic and species-group names organized alphabetically by genus.

We believe that this revised catalog, which includes a type depository listing for each species, a complete bibliography, an index to all names, and additional summary statistics, will serve as an essential tool for future systematic research on Dolichopodidae in North America and will, we hope, stimulate young Diptera enthusiasts to take a special interest

in this family. As is the case for many families of Nearctic Diptera, a large number of new species of Dolichopodidae await discovery and the majority of genera are in need of revision.

This catalog is based on the relational database DOLIDAT, designed by the first author (see Pollet, 2000) and updated and further developed during the production of this catalog by the first two authors. Data on each taxonomic level and the assignment of genera to subfamilies are stored as separate entities (subfamily, genus-subfamily, genus, species). All information presented in the present catalog was combined via the merge option in Microsoft Word 97. The DOLIDAT database is owned and maintained by the first author. Any discovered errors should be reported to him for inclusion in the database and future versions of this catalog.

## NATURAL HISTORY OF DOLICHOPODIDAE

In general, most Dolichopodidae or long-legged flies are metallic greenish to bronze flies, between 1 and 10 mm in length; fewer species are nonmetallic yellow (e.g., some *Achalcus*, *Neurigona*, *Xanthochlorus*, *Xanthina*), brown, or black (e.g., many *Medetera*, *Micromorphus*, *Enlinia*). The body is either stout or slender, sometimes midgelike

(most Sciapodinae), but always somewhat compressed laterally (see Frontispiece). Dolichopodidae are one of the largest families of Diptera, with about 6000 described species in 200 genera (Grichanov, 1999) including 88 fossil species in 7 fossil genera (Meuffels, personal commun.).

Dolichopodidae occur in all terrestrial habitats, but generally prefer humid areas where they may be the most abundant family of Diptera. Many species can be found in great numbers especially in humid forests, humid heathland, saltmarshes, dune slacks, and on banks of water bodies. Other species occur mainly on tree trunks and other vertical structures (e.g., *Medetera*, *Neurigona*, *Sciapus*). Larvae of *Systemus* and some *Hercostomus* depend on sap runs and rot holes of deciduous trees for their development (Dyte, 1959). *Melanderia*, *Paraphrosylus*, and *Thambemyia* are entirely confined to littoral rocks, whereas other hydrophorine genera like *Thinophilus* and *Hypocharassus* prefer wet sand or decaying seaweed on beaches. Both adult flies and larvae of most species are predaceous and feed on soft-bodied invertebrates. In contrast, the larvae of *Thrypticus* are phytophagous and live as stem miners in Cyperaceae, Poaceae (= Gramineae), Juncaceae, and Pontederiaceae (Dyte, 1993). Larval stages of some species, including *Hydatostega plumbea* (Aldrich), are known to be extremely salt tolerant (Herbst & Bradley, 1988).

#### PREVIOUS CATALOGS AND CHECKLISTS

Foote et al. (1965) represents the most recent comparable predecessor of the present work, and a summary of the taxonomic changes that have occurred in the interim is provided below (see Diversity and Distribution of Nearctic Dolichopodidae). Poole's (1996) checklist added 125 valid species names and 7 additional genera including *Achalcus*, *Harmstonia*, *Hydatostega*, *Nanomyia*, *Neurigonella*, *Sympycnidelphus*, and *Neoparentia*. This author treated *Wirthia* as a synonym of *Melanderia*, *Achradocera* as a synonym of *Chrysotus*, and *Gymnopternus* as a synonym of *Hercostomus*. In contrast, we have treated *Wirthia* as a subgenus of *Melanderia*, as did Foote et al. (1965), and both

*Achradocera* and *Gymnopternus* are assigned generic status, following Robinson & Vockeroth (1981). Poole (1996) also inadvisably assigned currently unplaced species to genera based on their original combinations (see Unplaced Species).

#### FORMAT AND COVERAGE

The format of the catalog entries roughly follows Foote et al. (1965) and Borkent & Wirth (1997). Due to the lack of information on the higher-level phylogeny of Dolichopodidae, valid names of the family, genus, and species groups are arranged alphabetically. Valid generic and species names are printed in boldface type; synonymous names are italicized. All generic names are printed in uppercase text, and all species names in lowercase text.

Each valid genus-group name is followed by the author, year, page, name of type species, realm where the type species occurs, nature of type fixation, the present valid name of the type species in cases where a change has occurred, and taxonomic notes. With the exception of errors, emendations, and misidentifications, entries of synonymous generic names are identical in format to valid names, except that the realm of the type species is not given. All genus-group names are listed chronologically. Following the list of genus-group names, notes on the distribution, biology, and ecology of the genus are provided, as well as a list of pertinent keys and revisions, when such information is available.

Valid species names are followed by the author, year and page number of the original description, taxonomic remarks and relevant references, type depository and locality, distribution records, and a list of additional sources. Original literature was checked in virtually all instances to ensure accuracy of the entries. The author's name is placed in parentheses in cases where there was a generic shift from the original combination. In such cases the original genus name is listed in parentheses following the page number of the original description. In instances where the locality of the primary type was not specified in the original publication or subsequent literature, a listing of all localities of the type

TABLE 1  
 Provincial and State Abbreviations and Number of Species Recorded per Province or State

Province or state	Abbreviation	No. of species <sup>a</sup>	No. of species known only from province or state	Province or state	Abbreviation	No. of species <sup>a</sup>	No. of species known only from province or state
<b>CANADA</b>							
Alberta	AB	91	8	Nova Scotia	NS	107	2
British Columbia	BC	134	9	Ontario	ON	215	12
Manitoba	MB	92	3	Prince Edward Island	PEI	10	—
New Brunswick	NB	32	—	Quebec	QC	212	9
Newfoundland	NF	38	3	Saskatchewan	SK	50	3
Northwest Territories	NT	64	4	Yukon Territory	YT	30	—
<b>USA</b>							
Alabama	AL	9	—	Montana	MT	81	2
Alaska	AK	128	21	Nebraska	NE	141	9
Arizona	AZ	59	12	Nevada	NV	54	3
Arkansas	AR	10	1	New Hampshire	NH	87	5
California	CA	224	73	New Jersey	NJ	111	3
Colorado	CO	161	24	New Mexico	NM	53	4
Connecticut	CT	62	2	New York	NY	273	19
Delaware	DE	7	—	North Carolina	NC	217	11
District of Columbia	DC	47	1	North Dakota	ND	16	2
Florida	FL	137	18	Ohio	OH	56	1
Georgia	GA	126	16	Oklahoma	OK	10	2
Idaho	ID	118	10	Oregon	OR	111	17
Illinois	IL	87	4	Pennsylvania	PA	80	3
Indiana	IN	111	9	Rhode Island	RI	16	1
Iowa	IA	124	7	South Carolina	SC	91	3
Kansas	KS	49	2	South Dakota	SD	58	2
Kentucky	KY	8	—	Tennessee	TN	132	5
Louisiana	LA	38	5	Texas	TX	77	8
Maine	ME	76	1	Utah	UT	185	26
Maryland	MD	62	8	Vermont	VT	37	—
Massachusetts	MA	120	5	Virginia	VA	138	2
Michigan	MI	149	—	Washington	WA	110	8
Minnesota	MN	43	1	West Virginia	WV	16	—
Mississippi	MS	17	—	Wisconsin	WI	69	2
Missouri	MO	32	—	Wyoming	WY	85	4
BERMUDA		15	3				
GREENLAND		3	—				

<sup>a</sup>Refer to "Diversity and Distribution of Nearctic Dolichopodidae" for discussion of triangulation bias.

series is provided. Distribution records are only listed for valid species (records of synonymized species have been added to the distribution of valid species) and omitted if the species is only known from the type locality. American distribution records north of Mexico are separated from other records by a

semicolon. North American localities including Mexico (as "MEX") are abbreviated (table 1), except for Greenland and Bermuda. Non-North American localities are generally given to the level of zoogeographical realm with the exception of type localities, which are given to the level of country or island,



or as stated in the original publication. Distribution records originate mainly from the literature, but also include unpublished data (see Acknowledgments). Supplementary distribution records are placed in parentheses if they fall within the geographic area outlined by the triangulations given in Foote et al. (1965). Additional references following the distribution are provided to guide the user to literature sources which contain supplementary information (e.g., distribution records, corrections) not listed in either Foote et al. (1965), the original species description, or the remarks.

Synonyms of species-group names are indented and listed in chronological order, below the valid species name. Except for the exclusion of distribution records, the structure of these records is identical to that of the valid species. Errors and emendations are listed immediately after the name misspelled or emended. Dating of the older literature mainly follows Stone et al. (1965) and Evenhuis (1997b). Seven of the eight varieties listed in Foote et al. (1965) (four in *Dolichopus* and one each in *Neurigona*, *Diaphorus*, and *Chrysotus*) are treated as synonyms, following Poole (1996); the exception is *Dolichopus distinctus* Van Duzee, which is assigned species-level status.

The geographic area covered by this catalog is North America north of Mexico as delineated by Stone et al. (1965), including Greenland and Bermuda. For brevity “Nearctic” refers to this area regardless of the real limits of the Nearctic realm. All validly named Nearctic taxa described before February 2004 (including the fossil species *Gymnopternus lacustris* Bickel, 1995a) are included. *Dolichopus annulitarsis* Ringdahl, *D. flavipes* Stannius, *D. fraterculus* Zetterstedt, *D. latipennis* Fallén, *D. maculipennis* Zetterstedt, and *D. sagittarius* Loew are newly recorded from North America based on material authoritatively identified by J.R. Vockeroth in the Canadian National Collection of Insects (CNC); R.L. Hurley added *Pelastoneurus taeniatus* Becker and *Tachytrechus keiferi* (Van Duzee) to the North American fauna. These eight species are indicated as new records in the catalog. Ten species which occur in other realms have been erroneously recorded from America north of

Mexico. Foote et al. (1965) listed six of these as “not Nearctic”. Four additional species are added here: *Dolichopus micropygus* Wahlberg, *D. unguatus* (Linnaeus), *Hydrophorus praecox* (Lehmann), and *Sciapus pressipes* Parent (see Species Erroneously Recorded from America North of Mexico).

#### NOMENCLATRURAL CHANGES

Forty-eight new nomenclatural changes are proposed in this catalog. The genus name *Lyroneurus* Loew is newly synonymized with *Chrysotus* Meigen. *Dolichopus distinctus* Van Duzee is removed from synonymy with *D. funditor* Loew. *Dolichopus alberecrus* Gunther is newly synonymized with *D. scapularis* Loew, *D. annaclareii* Gunther is newly synonymized with *D. variabilis* Loew, *Tachytrechus parenti* Robinson is newly synonymized with *T. latitarsus* (Parent), and *Tachytrechus spinitarsis* (Van Duzee) is newly synonymized with *T. sanus* Osten Sacken. The following new combinations are proposed: *Chrysotus aldrichi* (Van Duzee, 1915a) (including one additional synonym), *C. deremptus* (Walker), *C. leucostoma* (Loew) (including two additional synonyms), *C. mundus* (Loew), *C. occidentalis* (Van Duzee), *C. quadratus* (Van Duzee), *C. repandus* (Van Duzee), *C. sodalis* (Loew), *C. triangulatus* (Van Duzee), *C. usitatus* (Van Duzee), *C. vanduzeei* (Robinson) (including one additional synonym), *C. variabilis* (Van Duzee), *Calyxochaetus arizonicus* (Harmston), *C. binodatus* (Harmston & Knowlton), *C. hardyi* (Harmston & Knowlton), *C. isoaristus* (Harmston & Knowlton), *C. pennarista* (Harmston & Knowlton), *C. pictipes* (Harmston & Knowlton), *C. tripilus* (Van Duzee), *Paraphrosylus californicus* (Harmston), *P. grassator* (Wheeler), *P. wirthi* (Harmston), *Sympycnus pilosicornis* (Walker), *Tachytrechus keiferi* (Van Duzee), and *Thambemyia borealis* (Takagi). In addition, new combinations are proposed for two synonyms of *Chrysotus spectabilis* (Loew), one synonym of *Amblypsilopus dorsalis* (Loew), three synonyms of *A. scintillans* (Loew), and four synonyms of *A. unifasciatus* (Say). *Chrysotus vockerothi* Pollet is proposed as a new name to replace *Chrysotus aldrichi* Van Duzee (1924b), and *Tachytrechus canacolli*

TABLE 2  
Number of Valid Species of Dolichopodidae per Subfamily and Genus in America North of Mexico

Subfamily Acalcinae	5	Subfamily Hydrophorinae (contd.)	Subfamily Rhamphiinae	92	
<i>Achalcus</i> Loew	5	<i>Liancalus</i> Loew	<i>Nematoproctus</i> Loew	7	
Subfamily Diaphorinae	217	<i>Melanderia</i> ( <i>Melanderia</i> ) Aldrich	<i>Rhaphium</i> Meigen	85	
<i>Achradocera</i> Becker	2	<i>Melanderia</i> ( <i>Wirthia</i> ) Arnaud	Subfamily Sciapodinae	71	
<i>Argyra</i> Macquart	46	<i>Paraphrosylus</i> Becker	<i>Amblypsilopus</i> Bigot	16	
<i>Asyndetus</i> Loew	23	<i>Scellus</i> Loew	<i>Condylostylus</i> Bigot	35	
<i>Chrysotus</i> Meigen	107	<i>Thambemyia</i> Oldroyd	<i>Mesorhaga</i> Schiner	12	
<i>Diaphorus</i> Meigen	38	<i>Thinophilus</i> Wahlberg	<i>Sciapus</i> Zeller	8	
<i>Keirosoma</i> Van Duzee	1	Subfamily Medeterinae	70	Subfamily Stolidosomatinae	3
Subfamily Dolichopodinae	509	<i>Medetera</i> Fischer von Waldheim	47	<i>Sympycnidelfus</i> Robinson	3
<i>Dolichopus</i> Latreille	317	<i>Systemus</i> Loew	6	Subfamily Sympycninae	121
<i>Gymnopternus</i> Loew	76	<i>Thrypticus</i> Gerstäcker	17	<i>Calyxochaetus</i> Bigot	21
<i>Hercostomus</i> Loew	21	Subfamily Neurigoninae	41	<i>Campsicnemus</i> Haliday	22
<i>Paraclius</i> Loew	16	<i>Dactylomyia</i> Aldrich	1	<i>Erebomyia</i> Runyon & Hurley	1
<i>Pelastoneurus</i> Loew	41	<i>Neurigona</i> Rondani	39	<i>Lamprochromus</i> Mik	3
<i>Tachytrechus</i> Stannius	38	<i>Viridigona</i> Naglis	1	<i>Neoparentia</i> Robinson	1
Subfamily Enliniinae	10	Subfamily Peloroepodinae	29	<i>Parasyntormon</i> Wheeler	20
<i>Enlinia</i> Aldrich	8	<i>Chrysotimus</i> Loew	7	<i>Sympycnus</i> Loew	28
<i>Harmstonia</i> Robinson	2	<i>Micromorphus</i> Mik	7	<i>Syntormon</i> Loew	20
Subfamily Hydrophorinae	114	<i>Nanomyia</i> Robinson	1	<i>Telmaturgus</i> Mik	1
<i>Diostracus</i> Loew	3	<i>Nepalomyia</i> Hollis	4	<i>Teuchophorus</i> Loew	4
<i>Hdatostega</i> Philippi	3	<i>Peloroepodes</i> Wheeler	10	Subfamily Xanthochlorinae	1
<i>Hydrophorus</i> Fallén	50	Subfamily Plagioneurinae	1	<i>Xanthochlorus</i> Loew	1
<i>Hypocharassus</i> Mik	2	<i>Plagioneurus</i> Loew	1	Unplaced Species	4
				TOTAL	1288

Brooks is proposed as a new name to replace *Tachytrechus utahensis* (Harmston & Knowlton, 1946b, new combination).

#### SUBFAMILY CLASSIFICATION

Fourteen subfamilies of Dolichopodidae are recognized in this catalog (see table 2). The subfamily classification followed here is based on that of Robinson (1970a) and Negrobov (1987, 1991) with modifications. Departures from these classifications include the placement of *Achalcus* in Acalcinae (*sensu* Grootaert & Meuffels, 1997) instead of in Xanthochlorinae (Robinson, 1970a) or Enliniinae (Negrobov, 1987, 1991), and *Systemus* in the Medeterinae (*sensu* Bickel, 1986) instead of Systeminae. *Nematoproctus* is included in the Rhamphiinae *sensu* Negrobov (1987, 1991).

The classification followed in Foote et al. (1965) was based on Becker (1917–1918,

1922a, 1922b, 1923) which included 10 subfamilies, all of which are recognized in this checklist except for Aphrosylinae, which is combined with Hydrophorinae. Five additional subfamilies (Acalcinae, Enliniinae, Peloroepodinae, Stolidosomatinae, Xanthochlorinae) are included in the present list. Most of the differences in the classification adopted in the present catalog versus that of Foote et al. (1965) involve changes in the concepts of Rhamphiinae and Sympycninae. Genera included in Rhamphiinae *sensu* Foote et al. (1965), presumably on the basis of the usually acute first flagellomere and the subapical to apical arista, which are placed here in other subfamilies, include (present subfamily placement in parentheses): *Keirosoma* (Diaphorinae), *Syntormon* (Sympycninae), *Parasyntormon* (Sympycninae), and *Systemus* (Medeterinae). Genera included in Sympycninae *sensu* Foote et al. (1965), presumably

TABLE 3  
 Overview of the Number of Species of Dolichopodidae in America North of Mexico  
 Described Between 1758 and February 2004

Time period	Walker	Loew	Wheeler	Aldrich	Melander (& Brues)	Van Duzee	Curran	Parent	Harm- ston (& co- workers)	Robin- son (& co- workers)	Others	Total no. species <sup>a</sup>
1758–1820	—	—	—	—	—	—	—	—	—	—	5	5
1821–1830	—	—	—	—	—	—	—	—	—	—	29	29
1831–1840	—	—	—	—	—	—	—	—	—	—	12	12
1841–1850	34	1	—	—	—	—	—	—	—	—	12	47
1851–1860	11	3	—	—	—	—	—	—	—	—	1	15
1861–1870	—	174	—	—	—	—	—	—	—	—	7	181
1871–1880	—	3	—	—	—	—	—	—	—	—	12	15
1881–1890	—	—	15	—	—	—	—	—	—	—	7	22
1891–1900	—	—	62	42	25	—	—	—	—	—	4	133
1901–1910	—	—	—	22	1	—	—	—	—	—	9	32
1911–1920	—	—	—	8	—	119	—	—	—	—	20	147
1921–1930	—	—	—	13	—	371	47	20	—	—	24	475
1931–1940	—	—	—	1	—	65	8	5	31	—	9	119
1941–1950	—	—	—	—	—	—	1	—	44	—	—	45
1951–1960	—	—	—	—	—	—	—	—	26	4	6	36
1961–1970	—	—	—	—	—	—	—	—	47	71	6	124
1971–1980	—	—	—	—	—	—	—	—	8	6	8	22
1981–1990	—	—	—	—	—	—	—	—	—	—	33	33
1991–2004	—	—	—	—	—	—	—	—	—	3	11	14
Total no. of species	45	181	77	86	26	555	56	25	156	84	215	1506
No. of synonyms	11	20	12	15	3	103	9	8	15	7	50	253
No. of valid species	34	161	65	71	23	452	47	17	141	77	165	1253 (+35)

<sup>a</sup>Number in parentheses indicates additional replacement names.

due to their modest body size, that are now assigned to other subfamilies include: *Enlinia* (Enliniinae), *Chrysotimus* (Peloropeodinae), *Micromorphus* (Peloropeodinae), and *Xanthochlorus* (Xanthochlorinae).

#### HISTORICAL STATISTICS

Table 3 provides a timetable of the number of Nearctic species described per major author from 1758 to 2003, and figure 1 shows the cumulative number of all described and valid species over the same period. The most significant contribution to the description of the Nearctic dolichopodid fauna is that of Millard C. Van Duzee, who described 555 species between 1913 and 1933, representing 36.9% of the total, which averages about 26 species/year. Other notable

contributions include those of Loew ( $n = 181$ ; 12.0%), Harmston and coworkers James, Knowlton, Miller, and Rapp ( $n = 156$ ; 10.4%), Aldrich ( $n = 86$ ; 5.7%), Robinson and coworkers Arnaud and Deyrup ( $n = 84$ ; 5.6%), Wheeler ( $n = 77$ ; 5.1%), Curran ( $n = 54$ ; 3.6%), and Walker ( $n = 45$ ; 3.0%). More than 55% of the synonyms listed in this catalog were described during 1911–1940 and 41% were described by Van Duzee.

A number of the dolichopodid workers listed in table 3 were contemporary, including Wheeler, Aldrich and Melander, Van Duzee, Curran and Parent, and Harmston and Robinson. The greatest overlap of workers occurred in the 1930s, during which species were described by Aldrich, Van Duzee, Cur-

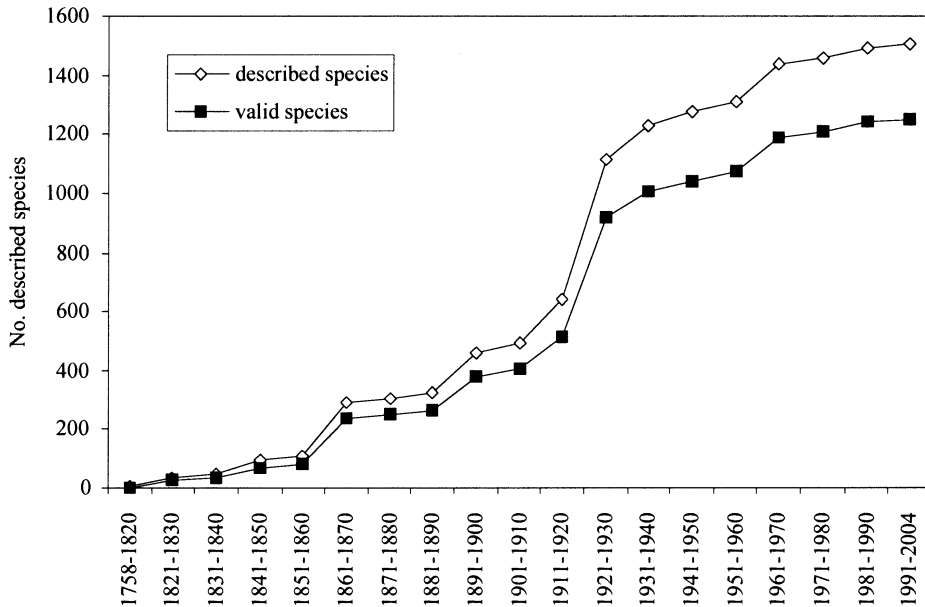


Fig. 1. Cumulative number of species described from America north of Mexico between 1758 and February 2004.

ran, Parent, and Harmston & Knowlton. The majority of these workers were active for, at most, 25 years; however, Aldrich and Harmston described new species over periods of 40 (1893–1932) and 34 (1939–1972) years, respectively. Robinson has also been actively working on dolichopodids for the last 41 years (1960–present) and continues to do so.

The most notable increases in the Nearctic dolichopodid fauna were observed in the 1860s, during which Loew nearly tripled the number of described dolichopodids, and in the 1920s, during which 476 new species were described, mainly by Van Duzee (fig. 1; table 3). During the last 34 years, only 69 new species or a mere 4.6% of the total number of species were described. The description of a new genus, *Erebomyia*, with one new species, *E. exalloptera*, by Runyon & Hurley (2004), represents the most recent addition to the Nearctic fauna. This trend does not indicate that the limits of the Nearctic fauna have been reached, as a large number of undescribed species currently occupy the drawers of unsorted material accumulating in collections across North America. Rather, this trend reflects a decline in both the number of active dolichopodid workers and new

students being trained in dolichopodid systematics.

#### DIVERSITY AND DISTRIBUTION OF NEARCTIC DOLICHOPODIDAE

Table 2 provides the number of valid species per genus and subfamily listed in this catalog. Two hundred twenty-four species have been added, representing a 19.4% increase in the number of species in Foote et al. (1965). The present list records 1288 valid species and 3 subspecies in 55 genera and 14 subfamilies compared with 1152 valid species and 8 subspecies in Foote et al. (1965). However, when these totals are compared, the new list actually includes a total of only 136 more valid species-group names than the previous catalog, which is due, in part, to the addition of 84 synonymies and the removal of 10 non-Nearctic species from the current list. Five species, namely *Dolichopus distinctus* Van Duzee, *D. mercieri* Parent, *Hydrophorus aestuum* Loew, *H. eldoradensis* Wheeler, and *Condyllostylus scaber* (Loew) were removed from synonymy. Seventy-six additional combinations were established, three genera were synonymized (*Neurigonel-*

TABLE 4  
**Number of Species of Dolichopodidae  
 Shared Between America North of Mexico  
 and the Palearctic**

Genus	No. of shared species
<i>Dolichopus</i> Latreille	20
<i>Rhaphium</i> Meigen	15
<i>Medetera</i> Fischer von Waldheim	7
<i>Hydrophorus</i> Fallén	3
<i>Sciapus</i> Zeller	2
<i>Diaphorus</i> Meigen	1
<i>Hercostomus</i> Loew	1
<i>Scellus</i> Loew	1
<i>Thambemyia</i> Oldroyd	1
<i>Thrypticus</i> Gerstäcker	1
<i>Micromorphus</i> Mik	1
<i>Sympycnus</i> Loew	1
<i>Syntormon</i> Loew	1
TOTAL	55

*la*, *Polymedon*, *Psilopiella*), and 13 genera were added. Of the genera added, *Erebomyia* (Sympycninae), *Harmstonia* (Enliniinae), *Nanomyia* (Peloropectinae), *Sympycnidelphus* (Stolidosomatinae), and *Thambemyia* (Hydrophorinae) include species that are newly reported or described for the Nearctic, whereas the others include known Nearctic species in different name combinations: *Achalcus* (species previously placed in *Systenus*), *Achradocera* (species previously placed in *Chrysotus*), *Hydatostega* (species previously placed in *Hydrophorus*), *Dactylomyia*, *Nepalomyia*, and *Viridigona* (species previously placed in *Neurigona*), *Amblypsilopus* (species previously placed in *Sciapus* and *Condylostylus*), and *Neoparentia* (species previously placed in *Parasyntormon*).

The Dolichopodinae is by far the largest subfamily, with 509 species comprising 39.5% of the entire Nearctic dolichopodid fauna, followed by Diaphorinae ( $n = 217$ ; 16.9%). Among the remaining subfamilies, only Sympycninae ( $n = 121$ ; 9.4%) and Hydrophorinae ( $n = 117$  [114 not including subspecies]; 9.1% [8.9%]) include more than 100 species. Plagioneurinae and Xanthochlorinae are the smallest subfamilies with only one species each.

*Dolichopus* is the most diverse genus with

317 species comprising about 24.6% of the Nearctic species. *Chrysotus* ( $n = 107$ ; 8.3%), *Rhaphium* ( $n = 85$ ; 6.6%), *Gymnopternus* ( $n = 76$ ; 5.9%), and *Hydrophorus* ( $n = 50$ ; 3.9%) also form a major component of the Nearctic fauna. Nine genera, namely, *Dactylomyia*, *Erebomyia*, *Keirosoma*, *Nanomyia*, *Neoparentia*, *Plagioneurus*, *Telmatargus*, *Thambemyia*, and *Xanthochlorus*, are represented by a single species each. Recent additions of new species are most notable in *Dolichopus* (28; 13 by Harmston), *Gymnopternus* (23; 20 by Robinson), *Medetera* (22; 15 by Bickel), *Hydrophorus* (16; 14 by Hurley), *Chrysotus* (11; 7 by Robinson), *Diaphorus* (10; 6 by Robinson), *Neurigona*, *Rhaphium* (both 8), *Enlinia*, and *Pelastoneurus* (both 7).

Table 1 indicates the number of species known per state or province in America north of Mexico based on Foote et al. (1965), subsequent literature, and authoritative identifications by J.R. Vockeroth, D.J. Bickel, R.L. Hurley, and H. Robinson. Because Foote et al. (1965) used triangulation to record species distributions instead of providing a complete list of states/provinces, the number of species per province/state in Table 1 must be considered underestimates of the actual diversity. New York, California, North Carolina, Ontario, and Quebec show the highest number of recorded species with over 200 each. Four provinces and 19 states each have over 100 recorded species. In contrast, three states and Greenland each have fewer than 10 recorded species. The apparent low diversity in these latter regions is likely due to undersampling or artifacts produced by triangulation rather than to actual low species richness.

Over 32.5% ( $n = 418$ ) of all valid Nearctic species have only been recorded from a single state or province. Seventy-three species are exclusively known from California, which represents the highest degree of apparent endemism in America north of Mexico. Other states with an apparently high number of unique species records include Utah ( $n = 26$ ), Colorado ( $n = 24$ ), Alaska ( $n = 21$ ), New York ( $n = 19$ ), Florida ( $n = 18$ ), and Oregon ( $n = 17$ ). Although in this case triangulation does not bias these figures, examination of material in collections will

TABLE 5  
**Number of Species of Dolichopodidae Shared with America North of Mexico and Mexico Plus the Neotropics, Species Shared with Mexico Only, and Species Shared with the Neotropics Exclusive of Mexico**

Taxon	Mexico + Neotropics	Mexico only	Neotropics (excl. Mexico)	Total
Subfamily Diaphorinae	8	4	15	27
<i>Achradocera</i> Becker	1	1	—	2
<i>Asyndetus</i> Loew	1	—	2	3
<i>Chrysotus</i> Meigen	4	3	11	18
<i>Diaphorus</i> Meigen	2	—	2	4
Subfamily Dolichopodinae	5	13	9	27
<i>Dolichopus</i> Latreille	—	6	—	6
<i>Hercostomus</i> Loew	—	1	—	1
<i>Paraclius</i> Loew	1	2	5	8
<i>Pelastoneurus</i> Loew	2	3	3	8
<i>Tachytrechus</i> Stannius	2	1	1	4
Subfamily Enliniinae	—	2	—	2
<i>Enlinia</i> Aldrich	—	1	—	1
<i>Harmstonia</i> Robinson	—	1	—	1
Subfamily Hydrophorinae	1	7	—	8
<i>Hydatostega</i> Philippi	—	1	—	1
<i>Hydrophorus</i> Fallén	1	1	—	2
<i>Liancalus</i> Loew	—	2	—	2
<i>Thinophilus</i> Wahlberg	—	3	—	3
Subfamily Medeterinae	3	3	4	10
<i>Medetera</i> Fischer von Waldheim	1	3	1	5
<i>Thrypticus</i> Gerstäcker	2	—	3	5
Subfamily Peloroepodinae	1	4	1	6
<i>Micromorphus</i> Mik	1	1	—	2
<i>Nanomyina</i> Robinson	—	—	1	1
<i>Peloroepodes</i> Wheeler	—	3	—	3
Subfamily Plagioneurinae	—	—	1	1
<i>Plagioneurus</i> Loew	—	—	1	1
Subfamily Rhamphiinae	—	1	—	1
<i>Rhamphium</i> Meigen	—	1	—	1
Subfamily Sciapodinae	7	5	17	29
<i>Amblypsilopus</i> Bigot	1	1	4	6
<i>Condylostylus</i> Bigot	6	4	9	19
<i>Mesorhaga</i> Schiner	—	—	3	3
<i>Sciapus</i> Zeller	—	—	1	1
Subfamily Sympycninae	—	2	—	2
<i>Calyxochaetus</i> Bigot	—	1	—	1
<i>Sympycnus</i> Loew	—	1	—	1
<b>TOTAL</b>	<b>25</b>	<b>41</b>	<b>47</b>	<b>113</b>

TABLE 6

## Species Shared Between America North of Mexico, the Palearctic, and the Neotropics

## (a) Species shared between America north of Mexico and the Palearctic

<i>Diaphorus nigricans</i> Meigen	<i>Dolichopus sagittarius</i> Loew	<i>Rhaphium elegantulum</i> (Meigen)
<i>Dolichopus annularis</i> Ringdahl	<i>Dolichopus stenhammari</i> Zetterstedt	<i>Rhaphium fascipes</i> (Meigen)
<i>Dolichopus brevipennis</i> Meigen	<i>Hercostomus chetifer</i> Walker	<i>Rhaphium firsovi</i> Stackelberg
<i>Dolichopus czekanovskii</i> Stackelberg	<i>Hydrophorus alpinus</i> Wahlberg	<i>Rhaphium glaciale</i> (Ringdahl)
<i>Dolichopus dasyops</i> Malloch	<i>Hydrophorus altivagus</i> Aldrich	<i>Rhaphium macalpini</i> Negrobov
<i>Dolichopus flavipes</i> Stannius	<i>Hydrophorus signifer</i> Coquillett	<i>Rhaphium nasutum</i> (Fallén)
<i>Dolichopus fraterculus</i> Zetterstedt	<i>Medetera apicalis</i> (Zetterstedt)	<i>Rhaphium nigribarbatum</i> (Becker)
<i>Dolichopus ivanovi</i> Stackelberg	<i>Medetera diadema</i> (Linnaeus)	<i>Rhaphium terminale</i> (Van Duzee)
? <i>Dolichopus lamellipes</i> Walker	<i>Medetera halteralis</i> Van Duzee	<i>Rhaphium tripartitum</i> (Frey)
<i>Dolichopus latipennis</i> Fallén	<i>Medetera pinicola</i> Kowarz	<i>Rhaphium umbripenne</i> (Frey)
? <i>Dolichopus longicornis</i> Stannius	<i>Medetera signaticornis</i> Loew	<i>Scellus spinimanus</i> (Zetterstedt)
<i>Dolichopus maculipennis</i> Zetterstedt	<i>Medetera truncorum</i> Meigen	<i>Sciapus pallens</i> (Wiedemann)
<i>Dolichopus mannerheimi</i> Zetterstedt	<i>Medetera veles</i> Loew	<i>Sciapus wiedemanni</i> Fallén
<i>Dolichopus nigricornis</i> Meigen	<i>Micromorphus albipes</i> (Zetterstedt)	<i>Sympycnus annulipes</i> (Meigen)
? <i>Dolichopus nudus</i> Loew	<i>Rhaphium beringiense</i> Negrobov	<i>Syntormon flexibile</i> Becker
<i>Dolichopus plumipes</i> (Scopoli)	<i>Rhaphium boreale</i> (Van Duzee)	<i>Thambemyia borealis</i> (Takagi)
<i>Dolichopus plumitarsis</i> Fallén	<i>Rhaphium commune</i> (Meigen)	<i>Thrypticus fraterculus</i> (Wheeler)
<i>Dolichopus remipes</i> Wahlberg	<i>Rhaphium consobrinum</i> Zetterstedt	
<i>Dolichopus rupestris</i> Haliday	<i>Rhaphium crassipes</i> (Meigen)	

## (b) Species recorded from America north of Mexico, Mexico and the Neotropics

<i>Achradochera barbata</i> (Loew)	<i>Condylostylus longicornis</i> (Fabricius)	<i>Paraclius filifer</i> Aldrich
<i>Amblypsilopus dimidiatus</i> (Loew)	<i>Condylostylus mundus</i> (Wiedemann)	<i>Pelastoneurus umbripictus</i> Becker
<i>Asyndetus ammophilus</i> Loew	<i>Condylostylus patibulatus</i> (Say)	? <i>Pelastoneurus vagans</i> Loew
<i>Chrysotus choricus</i> Wheeler	<i>Condylostylus quadricolor</i> (Walker)	<i>Tachytrechus angustipennis</i> Loew
<i>Chrysotus leucostoma</i> (Loew)	<i>Diaphorus nigricans</i> Meigen	<i>Tachytrechus nimius</i> (Aldrich)
<i>Chrysotus picticornis</i> Loew	<i>Diaphorus trivittatus</i> Van Duzee	<i>Thrypticus fraterculus</i> (Wheeler)
<i>Chrysotus spectabilis</i> (Loew)	<i>Hydrophorus aestuum</i> Loew	<i>Thrypticus minutus</i> Parent
<i>Condylostylus graenicheri</i> (Van Duzee)	<i>Medetera bistrata</i> Parent	
? <i>Condylostylus caudatus</i> (Weidemann)	<i>Micromorphus albipes</i> (Zetterstedt)	

undoubtedly reveal larger ranges for many species of Nearctic Dolichopodidae.

## FAUNAL RELATIONSHIPS WITH OTHER REALMS

Fifty-five species of Dolichopodidae in 13 genera are Holarctic (tables 4 and 6). Most Holarctic species belong to *Dolichopus*, *Rhaphium*, and *Medetera*, which are among the largest genera in America north of Mexico. On a world scale, *Rhaphium* and particularly *Dolichopus* are predominantly Holarctic and include several arctic or circumpolar species. A circumpolar Holarctic distribution can probably also be assumed in *Medetera apicalis* (Zetterstedt), *M. pinicola* Kowarz, *M. signaticornis* Loew, and *M. veles* Loew. The

larval stages of *M. pinicola* and *M. signaticornis* are predators of scolytid larvae on pine (*Pinus* spp.), spruce (*Picea* spp.), and Douglas fir (*Pseudotsuga* spp.) (Bickel, 1985). As such, the distribution of these species is restricted to coniferous forests. In contrast, the restricted and recent distribution records of *Medetera diadema* (Linnaeus) and *M. truncorum* Meigen in the Nearctic suggest introduction by human activities. Both species are among the most common species in the Palearctic (Assis Fonseca, 1978; Pollet, 2000).

The dolichopodid fauna of America north of Mexico shares 113 species with the Neotropics and Mexico (tables 5 and 6). Sixty-six species are shared with Mexico, of which

TABLE 6  
Continued

## (c) Species recorded from America north of Mexico and Mexico

<i>Achradocera arcuata</i> (Van Duzee)	<i>Dolichopus plumipes</i> (Scopoli)	<i>Paraclius pumilio</i> Loew
<i>Amblypsilopus infumatus</i> (Aldrich)	<i>Dolichopus silvicola</i> Harmston	<i>Pelastoneurus cognatus</i> Loew
<i>Calyxochaetus hastatus</i> (Van Duzee)	<i>Enlinia ciliata</i> Robinson	<i>Pelastoneurus cyaneus</i> Wheeler
<i>Chrysotus discolor</i> Loew	<i>Harmstonia pectinicauda</i> Robinson	<i>Pelastoneurus lugubris</i> Loew
<i>Chrysotus teapanus</i> Aldrich	<i>Hercostomus aurifer</i> (Thomson)	<i>Peloroepodes aldrichi</i> Robinson
<i>Chrysotus vividus</i> Loew	<i>Hydatostega viridiflos</i> (Walker)	<i>Peloroepodes cornutus</i> (Van Duzee)
<i>Condylostylus inornatus</i> (Aldrich)	<i>Hydrophorus eldoradensis</i> Wheeler	<i>Peloroepodes fuscipes</i> (Van Duzee)
<i>Condylostylus melampus</i> (Loew)	<i>Liancalus genualis</i> Loew	<i>Rhaphium vanduzeei</i> Curran
<i>Condylostylus occidentalis</i> (Bigot)	<i>Liancalus similis</i> Aldrich	<i>Sympycnus clavatus</i> Van Duzee
<i>Condylostylus tonsus</i> (Aldrich)	<i>Medetera aldrichii</i> Wheeler	<i>Tachytrechus keiferi</i> (Van Duzee)
<i>Dolichopus bifRACTUS</i> Loew	<i>Medetera saguaroicola</i> Bickel	<i>Thinophilus armiger</i> Van Duzee
<i>Dolichopus dorsalis</i> Van Duzee	<i>Medetera veles</i> Loew	<i>Thinophilus depressus</i> Van Duzee
<i>Dolichopus myosotus</i> Osten Sacken	<i>Micromorphus fulvosetosus</i> Parent	<i>Thinophilus ochrifacies</i> Van Duzee
<i>Dolichopus neomexicanus</i> Harmston	<i>Paraclius aberrans</i> Robinson	

## (d) Species recorded from America north of Mexico and the Neotropics exclusive of Mexico

<i>Amblypsilopus dorsalis</i> (Loew)	<i>Chrysotus sodalis</i> (Loew)	<i>Nanomyina barbata</i> (Aldrich)
<i>Amblypsilopus scintillans</i> (Loew)	<i>Condylostylus acuminatus</i> Van Duzee	? <i>Paraclius claviculatus</i> Loew
<i>Amblypsilopus unifaciatuS</i> (Say)	<i>Condylostylus clavatus</i> (Van Duzee)	<i>Paraclius flagellatus</i> (Harmston)
<i>Amblypsilopus variegatus</i> (Loew)	<i>Condylostylus comatus</i> (Loew)	? <i>Paraclius ovatus</i> Van Duzee
<i>Asyndetus interruptus</i> (Loew)	<i>Condylostylus crinitus</i> (Aldrich)	? <i>Paraclius propinquus</i> Wheeler
<i>Asyndetus syntormoides</i> Wheeler	<i>Condylostylus erectus</i> Becker	<i>Paraclius quadrinotatus</i> Aldrich
<i>Chrysotus affinis</i> Loew	<i>Condylostylus portoricensis</i> (Macquart)	<i>Pelastoneurus floridanus</i> Wheeler
<i>Chrysotus cornutus</i> Loew	<i>Condylostylus pruinosis</i> (Coquillett)	? <i>Pelastoneurus irrasus</i> (Walker)
<i>Chrysotus crosbyi</i> Van Duzee	<i>Condylostylus siphO</i> (Say)	<i>Pelastoneurus taeniatus</i> Becker
<i>Chrysotus excisus</i> Aldrich	<i>Condylostylus villosus</i> Parent	<i>Plagioneurus univittatus</i> Loew
<i>Chrysotus fulvohirtus</i> Van Duzee	<i>Diaphorus contiguus</i> Aldrich	<i>Sciapus tener</i> (Loew)
<i>Chrysotus humilis</i> Parent	<i>Diaphorus ventralis</i> Van Duzee	<i>Tachytrechus albonotatus</i> (Loew)
<i>Chrysotus longimanus</i> Loew	<i>Medetera excipiens</i> Becker	<i>Thrypticus abdominalis</i> (Say)
<i>Chrysotus mundus</i> (Loew)	<i>Mesorhaga albiciliata</i> (Aldrich)	<i>Thrypticus violaceus</i> Van Duzee
? <i>Chrysotus obliquus</i> Loew	? <i>Mesorhaga jucunda</i> Becker	? <i>Thrypticus willistoni</i> (Wheeler)
<i>Chrysotus pallipes</i> Loew	<i>Mesorhaga ornatipes</i> Van Duzee	

41 have not been recorded south of Mexico. The other 25 species shared with Mexico have also been recorded from other localities in Central and South America. The remaining 47 species are known from the Neotropics, exclusive of Mexico, although many of these species are likely to occur in Mexico. The subfamilies Sciapodinae (particularly *Condylostylus*) and Diaphorinae include the largest number of species that are shared with the Neotropics south of Mexico. Shared species of Enliniinae, Sympycninae, most Peloroepodinae and Hydrophorinae, and the Holarctic genus *Dolichopus* have not been recorded south of Mexico. Although diverse and widespread in Canada and the United

States, none of the North American species of *Gymnopternus* or *Argyra* have been recorded south of the United States.

Ten species recorded from the Nearctic are extremely widespread and have also been recorded in at least two additional realms (table 7). Some of these species records may be the result of misidentifications and should be viewed with caution. For instance, it is doubtful whether the marshland- and salt-marsh-inhabiting *Micromorphus albipes* (Zetterstedt) is really ubiquitous. *Micromorphus* species are among the smallest dolichopodids and detailed morphological comparison of specimens from each realm has not been carried out thus far. It is likely that the



TABLE 7

**Dolichopodid Species Known from America North of Mexico and At Least Two Other Realms**

Species	Palaearctic	Neotropical	Oriental	Afrotropical	Australasian & Oceanian
<i>Achradocera arcuata</i> (Van Duzee)		+			+
<i>Achradocera barbata</i> (Loew)		+			+
<i>Condylostylus longicornis</i> (Fabricius)		+			+
<i>Diaphorus nigricans</i> Meigen	+	+			
<i>Hercostomus chetifer</i> Walker	+		+		
<i>Micromorphus albipes</i> (Zetterstedt)	+	+	+	+	+
<i>Pelastoneurus lugubris</i> Loew		+			+
<i>Syntormon flexibile</i> Becker	+		+	+	+
<i>Tachytrechus angustipennis</i> Loew		+			+
<i>Thrypticus fraterculus</i> (Wheeler)	+	+			

same holds true for the stenotopic heathland species, *Diaphorus nigricans* Meigen. Confusion with other Diaphorinae cannot be excluded, especially in the Neotropics, where this subfamily is exceedingly diverse.

#### LOCATION OF TYPE MATERIAL

Wherever possible the location of primary type material for the Nearctic species of Dolichopodidae is provided. Notations used for the status of primary type material are as follows: HT = holotype, ST = syntype(s), LT = lectotype, NT = neotype. Acronyms used for collections housing primary types are those proposed by Samuelson et al. (2001). In instances where authors have deposited syntypes in more than one collection, institutions are listed in descending order based on the number of type specimens deposited. The number of syntype specimens, when known, is given separately in brackets for each collection. Type information has been gathered from the literature, by direct examination of collections (i.e., CNC, USNM), by use of published type catalogs and lists such as Byers et al. (1962), Zimsen (1964), Arnaud (1979), McCabe & Johnson (1980), Webb (1980), and Cooper & Cumming (1993), by use of type databases that are available over the internet (i.e., CUIC, MCZ, OSU, ZMUC), and by information provided by curators (see Acknowledgments).

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ANSP	Academy of Natural Sciences, 1900 Benjamin Franklin Parkway, Philadelphia, Pennsylvania, 19103, USA.
BMNH	Department of Entomology, The Natural History Museum, London, SW7 5BD, United Kingdom.
BPBM	Bernice P. Bishop Museum, 1525 Bernice Street, Honolulu, Hawaii, 96817-0916 USA.
CAS	Department of Entomology, California Academy of Sciences, Golden Gate Park, San Francisco, California, 94118, USA.
CNC	Canadian National Collection of Insects, Invertebrate Biodiversity, Agriculture and Agri-Food Canada, K.W. Neatby Building, Ottawa, Ontario, K1A 0C6, Canada.
CUIC	Department of Entomology, Comstock Hall, Cornell University, Ithaca, New York, 14853–0999, USA.
DEI	Deutsches Entomologisches Institut, Schicklerstrasse 5, D-16225 Eberswalde, Germany.
EDNC	North Carolina Department of Agriculture, Raleigh, North Carolina, 27611, USA.
EIHU	Entomological Institute, Faculty of Agriculture, Hokkaido University, Sapporo 060, Japan.
EMEC	Essig Museum of Entomology, University of California, Berkeley, California, 94720, USA.

- FSCA Florida State Collection of Arthropods, Division of Plant Industry, 1911 SW 34th Street, Gainesville, Florida, 32608–1268, USA.
- HNHM Department of Zoology, Hungarian Natural History Museum, Baross u. 13, Budapest, P.O. Box 137, H-1431, Hungary.
- INHS Illinois Natural History Survey Insect Collection, 607 E. Peabody Drive, Champaign, Illinois, 61820, USA.
- LSUK Linnaean Society, London, UK (contact BMNH).
- MCZ Entomology Department, Museum of Comparative Zoology, Harvard University, 26 Oxford St., Cambridge, Massachusetts, 02138, USA.
- MLUH Wissenschaftsbereich Zoologie, Martin-Luther-Universität, Halle a.S, Germany.
- MNHN Muséum National d'Histoire Naturelle, 45, rue de Buffon, Paris, 75005, France.
- MZHF Zoological Museum, Finnish Museum of Natural History, University of Helsinki, Pohjoinen Rautatiekatu 13, SF-00100, Helsinki, Finland.
- MZLU Museum of Zoology, Lund University, Helgonavägen 3A, S-223 62 Lund, Sweden.
- NHRS Sektionen for Entomologi, Naturhistoriska Riksmuseet, S-104 05, Stockholm, Sweden.
- NMID National Museum of Ireland, Kildare Street and Merrion Street, Dublin 2, Ireland.
- NMW Naturhistorisches Museum Wien, Postfach 417, Burggring 7, 1040 Wien, Austria.
- NYSM New York State Museum, Cultural Education Center, Albany, New York, 12230, USA.
- OSU Department of Entomology, Ohio State University, Columbus, Ohio, 43210–1220, USA.
- SEMC Snow Entomological Museum, University of Kansas, Lawrence, Kansas, 66044, USA.
- SMNS Staatliches Museum für Naturkunde, Rosenstein 1, D-70191 Stuttgart, Germany.
- SMTD Staatliches Museum für Tierkunde, Königsbrücker Landstrasse 159, D-01109 Dresden, Germany.
- UCDC R.M. Bohart Museum of Entomology, 1124 Academic Surge, University of California, Davis, California, USA.
- UMMZ Museum of Zoology, University of Michigan, Ann Arbor, Michigan, 48104, USA.
- UMO Hope Entomological Collections, University Museum, Parks Road, Oxford, OXI 3PW, United Kingdom.
- UMSP Department of Entomology, University of Minnesota, St. Paul, Minnesota, 55108, USA.
- UMNH Utah Museum of Natural History, 1390 E. Presidents Circle, University of Utah, Salt Lake City, Utah, 84112–0050, USA.
- USNM United States National Entomological Collection, Department of Entomology, U.S. National Museum of Natural History, Washington, DC 20560, USA.
- WSU James Entomological Collection, Washington State University, Pullman, Washington, 99163–6382, USA.
- ZIN Zoological Institute, Academy of Sciences, Universitetskaya nab., 1, St. Petersburg, 199034, Russia.
- ZMHB Museum für Naturkunde der Humboldt Universität zu Berlin, Invalidenstrasse 43, Berlin 1040, Germany.
- ZMPA Museum of the Institute of Zoology, Polish Academy of Science, Wilcza 64, 00–679 Warszawa, Poland.
- ZMUC Zoologisk Museum, Universitetsparken 15, DK 2100, Copenhagen, Denmark.
- ZMUH Zoologisches Institut und Zoologisches Museum, Universität von Hamburg, Hamburg, Germany.

#### SUBFAMILY ACHALCINAE

GROOTAERT & MEUFFELS, 1997: 1599

#### Genus ACHALCUS Loew, 1857

**ACHALCUS** Loew, 1857a: 30. Type species: *Porphyrops flavicollis* Meigen [Palearctic], designation by Robinson, 1970b: 22.

*ACHALCHUS*, error by Parent (1933b: 440).

NOTES: *Achalcus* is known from the Holarctic (Pollet, 1996a; Pollet & Cumming, 1998), the Neotropics (Van Duzee, 1930g; Parent, 1931), and New Zealand (Parent, 1933b). Recent investigations (Pollet, 1998; Pollet & Grootaert, 1998) have revealed the presence of this genus in Central America and Australia. Southern species show a typical Gondwanan distribution pattern (Pollet, 1996b, 1998). *Achalcus* is generally cold-preferent, and Nearctic species are found in both coastal forests and marshlands (Pollet & Cumming, 1998). Most of the Nearctic spe-

cies are known from western North America; however, undescribed females have recently been recorded from Ontario (Pollet & Cumming, 1998) and Prince Edward Island (Brooks & Wheeler, unpublished data).

REFERENCE: Pollet & Cumming (1998; rev.).

**californicus** Pollet & Cumming, 1998: 377. HT in CNC. Type locality: USA: CA, Marin Co., Inverness.

**dytei** Pollet & Cumming, 1998: 380. HT in BMNH. Type locality: USA: WA, Pacific Co., Ft. Canby State Park, nr Ilwaco. DISTRIBUTION: BC, WA.

**oregonensis** (Harmston & Miller), 1966: 91 (*Systemus*). HT in CAS. Type locality: USA: OR, Clackamas Co., Wilsonville [Pollet & Cumming (1998)].

**similis** Pollet & Cumming, 1998: 381. HT in WSU. Type locality: USA: WA, Clallam Co., Dean Creek, 7 mi S of Sequim.

**utahensis** (Harmston & Miller), 1966: 92 (*Systemus*). HT in CAS. Type locality: USA: UT, Moab [Pollet & Cumming (1998)].

#### SUBFAMILY DIAPHORINAE SCHINER, 1864: 47

#### Genus ACHRADOCERA Becker, 1922a

**ACHRADOCERA** Becker, 1922a: 207. Type species: *Achradocera femoralis* Becker [Neotropical], designation by Robinson, 1970b: 31. Listed as synonym (Poole, 1996) or subgenus (Robinson, 1970b) of *Chrysotus*; given generic status in Robinson (1975), Robinson & Vockeroth (1981), Dyte & Smith (1980), Bickel & Dyte (1989), and Bickel (2000).

**ACCRADOCERA**, error by Vanschuytbroeck (1952: 11, 54).

**ACRADOCERA**, error by Vanschuytbroeck (1951: 122, 128).

**ACRODOCERA**, error listed by Bickel & Dyte (1989)

NOTES: *Achradocera* is known from the Nearctic, Neotropical, and Afrotropical realms, as well as French Polynesia, Tonga, and the Hawaiian Islands (Bickel & Dyte, 1989; Bickel 2000). Males of this genus are easily recognized by their basally swollen and long, tapering first flagellomere, and bearded lower postocular surface. Information on their ecology and biology is entirely lacking.

REFERENCES: Van Duzee (1924b; as part of *Chrysotus*); Parent (1933c; key to Neotropi-

cal and Nearctic species); Bickel (2000; rev.).

**arcuata** (Van Duzee), 1924b: 48 (*Chrysotus*); listed under *Chrysotus* in Foote et al. (1965), comb. by Bickel (2000). HT in CAS. Type locality: USA: CA, Alpine. DISTRIBUTION: Western States (WA, OR, CA, ID, UT); MEX, Hawaiian Is. [Knowlton & Harmston (1937); Turner (1987); Bickel (2000)].

**barbata** (Loew), 1861a: 48 (*Synarthrus*); listed under *Chrysotus* in Foote et al. (1965), comb. by Robinson (1975). HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: WA, WI, and IA to RI, s. to CA, AZ, LA, and FL (IL, TN, TX, NC, SC); MEX, Neotropics, French Polynesia, Tonga [Robinson (1970b); Bickel (2000); Vockeroth (personal commun.)].

**validus** (Loew), 1861a: 63 (*Chrysotus*); listed under *Chrysotus* by Foote et al. (1965). HT in MCZ. Type locality: USA: "Middle States".

**americanum** (Wheeler), 1896a: 154 (*Xiphandrium*); listed under *Chrysotus* by Foote et al. (1965). ST in AMNH. Type localities: USA: WI, Milwaukee; IL, Chicago; IN, Whiting.

**apicalis** (Aldrich), 1896b: 330 (*Chrysotus*); synonymized by Bickel (2000). ST in USNM (4). Type locality: St. Vincent Is.

**angustifacies** Becker, 1922a: 207; synonymized by Bickel (2000). ST in ?SMTD. Type locality: Chile: Quillota.

#### Genus ARGYRA Macquart, 1834

**PORPHYROPS** Meigen, 1824: 45. Type species: *Musca diaphana* Fabricius, designation by Curtis, 1835: pl. 541. Application to the I.C.Z.N. to suppress *Porphyrops* in favor of established usage of *Argyra* is necessary; see notes in Robinson (1970b) and Dyte & Smith (1980: 458).

**ARGYRA** Macquart, 1834: 456. Type species: *Musca diaphana* Fabricius [Palearctic], designation by Rondani, 1856: 141.

**LEUCOSTOLA** Loew, 1857a: 39. Type species: *Dolichopus vestitus* Wiedemann, by monotypy.

NOTES: *Argyra* is known from all realms except Australasia and Oceania, but is most diverse in the northern hemisphere. Adults are hygrophilous and are frequently encountered on moist soil and herbaceous foliage near water, especially running water. Males, in particular, have silver pruinosity and resemble silvery flashes when in flight.

REFERENCES: Van Duzee (1925d; rev.); Robinson (1964; key, eastern U.S.).

- albicans** Loew, 1861a: 45. ST in MCZ. Type locality: USA: DC. DISTRIBUTION: NE and MN to QC, s. to KS and GA (IA, TN, DC, VA, NC, SC) [Robinson (1964); Harmston & Rapp (1983)].  
*quadriplagiatus* (Harris), 1835: 597 (*Porphyrops*); nomen nudum.
- albicoxa** Van Duzee, 1925d: 30. HT in CNC. Type locality: CAN: QC, Hull. DISTRIBUTION: NE, IA, QC, NY [Robinson (1964); Harmston & Rapp (1983)].
- albiventris** Loew, 1864b: 128. HT in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK s. to OR and UT.
- aldrichi** Johnson, 1904: 18. HT in MCZ. Type locality: USA: NJ, Long Branch, Shrewsbury River, Goose Neck. DISTRIBUTION: MA to SC (RI, CT, NJ) [Robinson (1964)].
- angustata** Van Duzee, 1925d: 10. HT in MCZ. Type locality: USA: ME, Mount Desert, Echo Lake. DISTRIBUTION: WI, NY, ME, MA [Robinson (1964)].
- argentiventris** Van Duzee, 1925d: 15. HT in USNM. Type locality: USA: CA, Mono Lake.
- barbipes** Van Duzee, 1925d: 11. HT in USNM. Type locality: USA: CA, Redwood City.
- basalis** Van Duzee, 1932c: 186. HT in CAS. Type locality: USA: NY, Little Valley. DISTRIBUTION: NY, SC.
- bimaculata** Van Duzee, 1925d: 19. HT in CNC. Type locality: CAN: QC, Hull. DISTRIBUTION: OR to QC and ME, s. to NE, IL, and MA [Robinson (1964); Harmston & Rapp (1983)].
- brevipes** Van Duzee, 1925d: 11. HT in USNM. Type locality: USA: LA, Opelousas.
- calceata** Loew, 1861a: 47. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: ON to QC, s. to IN and PA (IA, OH, NY, VT, ME, NH, MA) [Robinson (1964)].
- calcitrans** Loew, 1861a: 46. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: ON to ME, s. to IA, IN, and SC (TN, NY, MA, RI, CT, NJ, VA, NC) [Robinson (1964)].
- californica** Van Duzee, 1925d: 26. HT in USNM. Type locality: USA: CA, Los Angeles.
- ciliata** Van Duzee, 1924f: 5. HT in USNM. Type locality: USA: AK, Fairbanks.
- cingulata** (Loew), 1861a: 53 (*Leucostola*). HT in MCZ. Type locality: USA: DC. DISTRIBUTION: KS to ME, s. to LA and FL (IN, NY, NJ, DC, VA) [Robinson (1964)].
- condomina** Harmston & Knowlton, 1946c: 137. HT in ?USNM. Type locality: USA: UT, Wolf Creek Pass. DISTRIBUTION: OR, ID, MT, UT, CO, SD.
- currani** Van Duzee, 1925d: 24. ST in CNC (9), CAS (3), NYSM (2). Type locality: CAN: QC, Hull. DISTRIBUTION: ON, MI, QC.
- cylindrica** Loew, 1864b: 132. HT in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK, WA, CA.
- dakotensis** Harmston & Knowlton, 1939c: 85. HT in USNM. Type locality: USA: SD, Pineridge. DISTRIBUTION: UT, SD.
- fasciventris** Van Duzee, 1930a: 2. HT in AMNH. Type locality: USA: CT, Avon, Avon Old Farms. DISTRIBUTION: NE, NS, CT, WV [Bissett (1987); Vockerth (personal commun.)].
- femorialis** Van Duzee, 1925d: 16. HT in USNM. Type locality: USA: CA, Los Angeles
- flavicornis** Van Duzee, 1925d: 35. HT in USNM. Type locality: USA: KS, Lawrence. DISTRIBUTION: NE, KS, MO, LA [Harmston & Rapp (1983)].
- flavicoxa** Van Duzee, 1925d: 39. HT in MCZ. Type locality: USA: FL, Daytona.
- flavipes** Van Duzee, 1925d: 34. LT designated by Arnaud (1979: 235) in CAS. Type locality: USA: MD, Plummer Is. DISTRIBUTION: IA, IN, TN, NY, MD [Robinson (1964)].
- grayi** Robinson, 1964: 143. HT in USNM. Type locality: USA: SC, Spartanburg Co., nr Pacolet, on property of C.D. Gray.
- hirta** Van Duzee, 1925d: 7. HT in USNM. Type locality: USA: CO, Tennessee Pass.
- idahona** Harmston & Knowlton, 1946c: 138. HT in ?USNM. Type locality: USA: ID, Sandpoint.
- inaequalis** Van Duzee, 1925d: 40. HT in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: IN, TN.
- involuta** Van Duzee, 1925d: 38. HT in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: SD, IN.
- johnsoni** Van Duzee, 1925d: 37. HT in MCZ. Type locality: USA: NJ, Shark River. DISTRIBUTION: IA, IL, TN, PA, NJ, NC, SC, FL [Robinson (1964)].
- medusae** Gosseries, 1988: 305; n. name for *Argyra abdominalis* (Say). Type locality: USA: IN.  
*abdominalis* (Say), 1829–1830: 170 (also in LeConte, 1859: 362) (*Dolichopus*); preocc. by *Dolichopus abdominalis* Fallén, 1823, now *Neurigona*. ST destroyed. Type locality: USA: IN.
- minuta** Loew, 1861a: 46. HT in MCZ. Type locality: USA: DC. DISTRIBUTION: IA and IN to ON and VT, s. to DC (OH, NY, PA, MA, NJ) [Robinson (1964)].
- nigricoxa** Van Duzee, 1925d: 26. HT in USNM. Type locality: USA: OH, Sugar Grove. DISTRIBUTION: IA, IN, OH, ON, VA, SC.
- nigripes** Loew, 1864b: 127. HT in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK, WA and ID, s. to CA.
- nigriventris** Van Duzee, 1925d: 14. HT in CAS.

- Type locality: USA: WA, Clallam Co., Forks.  
DISTRIBUTION: WA, MT.
- obscura** Van Duzee, 1925d: 36. HT in CAS. Type locality: USA: NH, Mount Washington.
- robusta** Johnson, 1906: 59. HT in MCZ. Type locality: CAN: QC, Vaudreuil. DISTRIBUTION: ID and UT to QC and ME (MT, WY, IA, IL, NY, SD) [Robinson (1964)].
- scutellaris** Van Duzee, 1925d: 12. HT in USNM. Type locality: USA: OR, Forest Grove. DISTRIBUTION: OR, ID.
- sericata** Van Duzee, 1925d: 28. HT in MCZ. Type locality: USA: ME, Machias. DISTRIBUTION: IA, IN, QC, ME, MA.
- setipes** Van Duzee, 1925d: 31. HT in USNM. Type locality: USA: NY, Colden. DISTRIBUTION: ON to MA, s. to NC (NY, PA, VT, NJ, VA) [Robinson (1964)].
- similis** Harmston & Knowlton, 1940d: 58. HT in INHS. Type locality: USA: IL, Dongola. DISTRIBUTION: IL, IN, SC [Robinson (1964)].
- spina** Van Duzee, 1925d: 41. HT in USNM. Type locality: USA: IN, Lafayette.
- splendens** Van Duzee, 1933c: 151; n. name for *Argyra splendida* Van Duzee. Type locality: USA: CA, Berkeley.
- splendida* Van Duzee, 1925d: 21; preocc. by *Argyra splendida* de Meijere, 1919. HT in CAS. Type locality: USA: CA, Berkeley.
- thoracica** Van Duzee, 1925d: 23. HT in USNM. Type locality: CAN: ON, Kearney. DISTRIBUTION: ON, IN, TN, NY, VA [Robinson (1964)].
- utahna** Harmston, 1951a: 16. HT in CAS. Type locality: USA: UT, Monticello.
- velutina** Van Duzee, 1925d: 20. HT in CNC. Type locality: CAN: QC, Hull. DISTRIBUTION: MI, QC.

### Genus ASYNDETUS Loew, 1869a

- ASYNDETUS** Loew, 1869a: 35. Type species: *Asyndetus ammophilus* Loew [Nearctic, Neotropical], designation by Coquillett, 1910c: 511. There has been some confusion over the type species of *Asyndetus* among the current regional catalogs. *Asyndetus ammophilus* Loew is listed as the type species in the Nearctic (Foote et al., 1965), Neotropical (Robinson, 1970b), and Afrotropical (Dyde & Smith, 1980) catalogs, whereas the Oriental (Dyde, 1975), Australasian & Oceanian (Bickel & Dyde, 1989), and Palearctic (Negrobov, 1991) catalogs list *Diaphorus interruptus* Loew as the type. Loew (1869a) included only two species when he erected *Asyndetus*, namely *A. ammophilus* and *A. appendiculatus*, both from Newport, Rhode Island. Therefore the earlier designation of the Cuban species *Diaphorus interruptus* Loew as type species by Bigot (1890) is invalid as it was not one of the originally included species.
- ANCHINEURA** Thomson, 1869: 506. Type species: *Anchineura tibialis* Thomson, by monotypy.
- MERINGOPHERUSA** Becker, 1902–1903: 56. Type species: *Meringopherusa separata* Becker, designation by Dyte, 1975: 247.
- NOTES: *Asyndetus* is known from all realms but is most diverse in the New World. Several species are known from crab holes and presumably breed in these microhabitats. Species from the eastern United States are primarily coastal, but are occasionally found around inland lakes. The genus seems to be more widely distributed in the west (Robinson, 1964).
- REFERENCES: Van Duzee (1919b; key to males); Robinson (1964; key, eastern U.S.).
- ammophilus** Loew, 1869a: 34 (Cent. 8, no. 58). ST in MCZ. Type locality: USA: RI, Newport. DISTRIBUTION: CA, UT, NM, NE, TX, IA, IL, IN, MA to FL (RI, NJ, NC, SC), PEI, NS, Bermuda; MEX, Neotropics. [Knowlton & Harmston (1937); Robinson (1964); Bissett (1987); Woodley & Hilburn (1994); Bickel & Sinclair (1997)].
- appendiculatus** Loew, 1869a: 36 (Cent. 8, no. 59). ST in MCZ. Type locality: USA: RI, Newport. DISTRIBUTION: MB, NE, IA, MI, IN, ON, RI, SC, TX, FL [Harmston & Rapp (1983); Bickel (personal commun.); Vockeroth (personal commun.)].
- archboldi** Robinson & Deyrup, 1997: 477. HT in USNM. Type locality: USA: FL, Highlands Co., Archbold Biological Station.
- caudatus** Van Duzee, 1916b: 92. HT in SEMC. Type locality: USA: AZ, Bill Williams Fork.
- cornutus** Van Duzee, 1916b: 89. HT in CAS. Type locality: USA: UT, Great Salt Lake. DISTRIBUTION: CA, UT.
- crassipodus** Harmston, 1968: 20. HT in CAS. Type locality: USA: CA, Kern Co., Red Rock Canyon.
- flavipalpus** Van Duzee, 1932b: 10. HT in AMNH. Type locality: USA: NV, Fallon, 4000 ft.
- harbeckii** Van Duzee, 1914c: 442. HT in ANSP. Type locality: USA: NJ, Wenonah.
- hardyi** Robinson, 1964: 130. HT in USNM. Type locality: USA: TX, Harlingen.
- interruptus** (Loew), 1861b: 37 (*Diaphorus*). HT in MCZ. Type locality: Cuba. DISTRIBUTION: FL; Neotropics.
- breddini* Robinson, 1975: 68. HT in USNM. Type

- locality: Dominica, nr Layou [Robinson & Deyrup (1997); Bickel & Sinclair (1997)].
- johnsoni** Van Duzee, 1916b: 93. HT in MCZ. Type locality: USA: CT, Rowayton. DISTRIBUTION: NH, CT, NC.
- latus** Van Duzee, 1916b: 91. HT in SEMC. Type locality: USA: AZ, Bill Williams Fork. DISTRIBUTION: CA, UT, AZ, NM, TX, ?MI [Knowlton & Harmston (1937); Robinson (1964)].
- nevadensis** Harmston, 1968: 18. HT in UCDC. Type locality: USA: NV, 15 mi SW of Winnemucca.
- nigripes** Van Duzee, 1916b: 91. ST in CAS. Type localities: USA: CA, Los Angeles Co., Springdale; San Diego.
- occidentalis** Van Duzee, 1919b: 249. HT in CAS. Type locality: USA: CA, Los Banos.
- oregonensis** Harmston, 1966b: 225. HT in CAS. Type locality: USA: OR, Ana River road, nr Summer Lake.
- parvicornis** Van Duzee, 1932b: 11. HT in AMNH. Type locality: USA: WY, Rock Springs, at about 6250 ft.
- scopifer** Harmston, 1952: 288. HT in USNM. Type locality: USA: OR, Hood River.
- severini** Harmston & Knowlton, 1939b: 351. HT in USNM. Type locality: USA: SD, Martin. DISTRIBUTION: SD, NE [Harmston & Rapp (1983)].
- spinitarsis** Harmston, 1951b: 108. HT in SEMC. Type locality: USA: CA, Palm City.
- syntormoides** Wheeler, 1899: 32. ST in AMNH, MCZ. Type localities: USA: MA, Boston, New Bedford; NJ, Avalon. DISTRIBUTION: KS, MA, NJ, to FL; Neotropics [Robinson (1970b)].
- texanus** Van Duzee, 1916b: 90. HT in SEMC. Type localities: USA: AZ, Bill Williams Fork; TX, Galveston. DISTRIBUTION: AZ, TX.
- utahensis** Harmston & Knowlton, 1942b: 85. HT in USNM. Type locality: USA: UT, Price. DISTRIBUTION: UT, TX [Bickel (personal commun.)].

### Genus CHRYSOTUS Meigen, 1824

- CHRYSOTUS** Meigen, 1824: 40. Type species: *Musca nigripes* Fabricius [Palearctic], designation by Westwood, 1840: 134. See comments by Foote et al. (1965) and Dyte & Smith (1980) regarding the valid name of the type species.
- LYRONEURUS** Loew, 1857b: 38. Type species: *Lyroneurus coeruleescens* Loew, designation by Coquillett, 1910c: 563. Listed as subgenus (Robinson, 1970b) or synonym (Dyte & Smith, 1980) of *Diaphorus*. NEW SYNONYMY.

NOTES: *Chrysotus* is known from all

realms, but is most diverse in the New World. In this catalog, separation of *Chrysotus* and *Diaphorus* follows the key in Robinson & Vockeroth (1981) resulting in the transfer of 12 species from *Diaphorus* to *Chrysotus* based on examination of identified material in the CNC. *Chrysotus* is generally heliophilous and is mainly found on the foliage of low herbs, but a number of species seem to prefer wet, sandy banks of ponds and rivers.

REFERENCES: Van Duzee (1924b; rev., key to males); Robinson (1964; key, eastern U.S.); Woodley (1996; rev., key, Bermuda).

- affinis** Loew, 1861a: 64. ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: ON, QC, NY ME, CT; Neotropics [Robinson (1970b)].
- agalumus** Harmston & Rapp, 1968: 252. HT in CAS. Type locality: USA: NE, Glen.
- albohirtus** Van Duzee, 1924b: 41. HT in USNM. Type locality: USA: SD, Big Stone City. DISTRIBUTION: SD, NE, IA [Robinson (1964); Harmston & Rapp (1983)].
- aldrichi** (Van Duzee), 1915a: 185 (*Diaphorus*). HT in USNM. Type locality: USA: ID, Boise. DISTRIBUTION: ID, MT, NV, UT, CO, NE, ?MI [Robinson (1964); Harmston & Rapp (1983)]. NEW COMBINATION.
- albifacies* (Parent), 1929a: 191 (*Diaphorus*). HT in MLUH. Type locality: USA: MT. NEW COMBINATION.
- anomalus** Malloch, 1914: 238. HT in INHS. Type locality: USA: LA, New Orleans. DISTRIBUTION: LA, GA, NY.
- argentatus** Van Duzee, 1924b: 41. HT in CAS. Type locality: USA: CA, San Diego, Alpine. DISTRIBUTION: CA, ID, MI.
- arkansensis** Van Duzee, 1930b: 84. HT in SEMC. Type locality: USA: AR, Fayetteville.
- atratus** Van Duzee, 1930a: 2. HT in AMNH. Type locality: USA: CT, Avon, Avon Old Farms.
- auratus** Loew, 1861a: 65. ST in MCZ. Type locality: USA: NY.
- badius** Van Duzee, 1932b: 15. HT in CNC. Type locality: CAN: QC, Natashquan.
- barbipes** Van Duzee, 1932b: 14. ST in CAS (3), AMNH. Type locality: USA: CO, La Plata Co., Electric Lake, at about 8400 ft.
- bellulus** Van Duzee, 1932b: 14. HT in CNC. Type locality: CAN: QC, Natashquan.
- bellus** Van Duzee, 1924b: 39. HT in CAS. Type locality: USA: NJ, Wenonah. DISTRIBUTION: MI, NY to ME, s. to NC (NH, PA, NJ, MD, DC) [Robinson (1964)].

- bermudensis** Johnson, 1914: 446. HT in MCZ. Type locality: Bermuda [Woodley (1996)].
- bracteatus** Van Duzee, 1924b: 36. HT in CAS. Type locality: USA: GA, Tifton.
- caerulus** Van Duzee, 1924b: 21. HT in CAS. Type locality: USA: WA, Forks. DISTRIBUTION: BC, WA.
- californicus** Van Duzee, 1924b: 16. HT in CUIC. Type locality: USA: CA, Fulton; Humboldt Co., Blue Lake.
- canadensis** Van Duzee, 1924b: 19. HT in CAS. Type locality: CAN: ON, Ft. Erie. DISTRIBUTION: ON, MI.
- caroliniensis** Robinson, 1964: 136. HT in USNM. Type locality: USA: NC, Durham, Duke Gardens.
- caudatus** Van Duzee, 1924b: 29. HT in CAS. Type locality: USA: NY, Erie Co., North Evans.
- chlanoflavus** Harmston & Knowlton, 1940d: 59. HT in UMNH. Type locality: USA: ND, Tower City.
- choricus** Wheeler, 1890: 357. HT in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: NE, IA, WI, IL, IN, ON, NY, QC; MEX, Neotropics [Robinson (1964); Vockeroth (personal commun.)].  
*chloricus*; error by Van Duzee (1911: 240).
- ciliatus** Malloch, 1914: 236. HT in INHS. Type locality: USA: IL, Champaign.
- clypeatus** Robinson, 1967a: 121. HT in USNM. Type locality: USA: FL, Gulf Co., Port St. Joe.
- coloradensis** Van Duzee, 1924b: 14. HT in CUIC. Type locality: CAN: BC, Columbia River, "Carbonate".
- convergens** Van Duzee, 1924b: 17. HT in CAS. Type locality: USA: NY, Colden. DISTRIBUTION: MI, QC, NY, NC.
- cornutus** Loew, 1862: 214. (Cent. 2, no. 65). HT in MCZ. Type locality: USA: IL. DISTRIBUTION: IA, IL, NY; Neotropics [Robinson (1970b)].
- costalis** Loew, 1861a: 64. ST in MCZ. Type localities: USA: FL; MD. DISTRIBUTION: MI, NY, MD, NC, GA, FL [Robinson (1964)].  
*costatus*; error by Van Duzee (1915d: 88).
- cressoni** Van Duzee, 1924b: 17. HT in ANSP. Type locality: USA: NY, Beaverkill. DISTRIBUTION: NY, NC.
- crosbyi** Van Duzee, 1924b: 43. HT in CUIC. Type locality: USA: MO, Columbus. DISTRIBUTION: MO, NC, GA, FL. Bermuda; Neotropics (Cuba, Puerto Rico) [Robinson (1964); Woodley & Hilburn (1994); Woodley (1996); Vockeroth (personal commun.)].  
*magnipalpus* Van Duzee, 1927e: 2. HT in AMNH. Type locality: Cuba: Havana [Woodley (1996)].
- currani** Van Duzee, 1924b: 15. HT in CNC. Type locality: CAN: QC, Roberval. DISTRIBUTION: ON, QC, NY, DE, TN, NC.
- dakotensis** Harmston, 1952: 290. HT in USNM. Type locality: USA: SD, Brookings.
- deremptus** (Walker), 1848–1849: 667 (*Ortochile*); listed as unplaced in Foote et al. (1965), however, placement in *Chrysotus* indicated by Parent (1934a). HT in BMNH. Type locality: North America. NEW COMBINATION.
- discolor** Loew, 1861a: 65. ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: OR to MB and QC, s. to IA and FL (NY, MD, VA, NC); MEX [Robinson (1964, 1970b)].
- cobaltinus** Van Duzee, 1924b: 38. HT in CAS. Type locality: USA: MD, Chesapeake Beach.
- distinctus** Van Duzee, 1924b: 23. HT in CUIC. Type locality: USA: GA, Austell; Tifton. DISTRIBUTION: MI, TN, GA.
- dividuus** Van Duzee, 1924b: 12. HT in CAS. Type locality: USA: NY, Genesee Co., Elba. DISTRIBUTION: IA, MI, NY, GA.
- dorsalis** Van Duzee, 1924b: 44. HT in CAS. Type locality: USA: GA, Tifton. DISTRIBUTION: LA to GA and SC.
- emarginatus** Van Duzee, 1928d: 87. HT in USNM. Type locality: USA: IA, Sioux City.
- excisus** Aldrich, 1896b: 325. ST in USNM (10), SEMC. Type locality: St. Vincent Is. DISTRIBUTION: ?NY; Neotropics.
- exilis** Van Duzee, 1924b: 32. HT in CUIC. Type locality: USA: GA, Austell; Tybee Is. DISTRIBUTION: GA, NC.
- flavicauda** Van Duzee, 1928d: 87. HT in USNM. Type locality: USA: IA, Sioux City.
- flavisetus** Malloch, 1914: 239. LT designated by Frison (1927: 183) in INHS. Type locality: USA: IL, Champaign. DISTRIBUTION: IA, IL, TN.
- frontalis** Van Duzee, 1924b: 24. HT in CUIC. Type locality: USA: GA, Okefenokee Swamp, Billy's Is.
- fulvohirtus** Van Duzee, 1915d: 95; erroneously listed as synonym of *Chrysotus flavipalpis* Van Duzee by Robinson (1970b). ST in CAS (5), CUIC. Type localities: USA: GA, Honey Is.; Billy's Is.; Tybee Is.; Spring Creek; Clayton. DISTRIBUTION: GA, MA; Neotropics.  
*flavohirtus*; error listed by Robinson (1970b).
- furcatus** Robinson, 1964: 134. HT in CNC. Type locality: USA: NC, Pishag Forest, Looking Glass Peak. DISTRIBUTION: IA, MO, IN, TN, GA, FL, NY, CT, DC, VA, NC, SC.
- gilvipes** Van Duzee, 1924b: 25. HT in CUIC. Type locality: USA: GA, Okefenokee Swamp, Billy's Island.
- halteralis** Van Duzee, 1924b: 40. HT in CAS. Type locality: USA: NY, East Aurora. DISTRIBUTION: QC, NY, NC.

- harmstoni** Meuffels & Grootaert, 1999: 289; n. name for *Chrysotus nudus* Harmston & Knowlton. Type locality: USA: CA, Mono Co., Sardine Canyon, 8500 ft.
- nudus* Harmston & Knowlton, 1963: 233; preocc. by *Chrysotus nudus* Becker, 1917–1918. HT in CAS. Type locality: USA: CA, Mono Co., Sardine Canyon, 8500 ft.
- hastatus** Van Duzee, 1924b: 46. HT in CUIC. Type locality: USA: NY, Ithaca.
- hilburni** Woodley, 1996: 204. HT in USNM. Type locality: Bermuda, Devonshire Parish, Devonshire Marsh.
- hirtipes** Van Duzee, 1924b: 22. HT in CAS. Type locality: USA: NY, Olcott. DISTRIBUTION: AB, SD, NE, IA, ON, QC, NY [Harmston & Rapp (1983)].
- dubius* Van Duzee, 1924b: 22; listed as a variety by Foote et al. (1965). HT in CAS. Type locality: USA: SD, Brookings [Poole (1996)].
- humilis** Parent, 1928: 164. HT in ZMUH. Type locality: Costa Rica: La Caja. DISTRIBUTION: TX; Neotropics.
- idahoensis** Van Duzee, 1924b: 18. HT in CAS. Type locality: USA: WA, Mt. Constitution.
- incertus** Walker, 1848–1849: 651. HT in BMNH. Type locality: USA.
- intrudus** Harmston, 1951b: 107. HT in SEMC. Type locality: USA: OK, Commerce. DISTRIBUTION: OK, KS.
- johnsoni** Van Duzee, 1924b: 21. HT in MCZ. Type locality: USA: ME, Keneo. DISTRIBUTION: MI, QC, ME, NC, SC.
- junctus** Van Duzee, 1924b: 13. HT in CAS. Type locality: USA: FL, Turkey Creek. DISTRIBUTION: FL, GA.
- kansensis** Harmston, 1952: 289. HT in USNM. Type locality: USA: KS, Lawrence.
- lamellifer** Robinson, 1964: 136. HT in USNM. Type locality: USA: IA, Monona Co., 7 mi SW of Whiting, nr Missouri River, 42°6'N, 96°16'W. DISTRIBUTION: NE, IA.
- leucostoma** (Loew), 1861a: 58 (*Diaphorus*). ST in MCZ. Type locality: USA: MD. DISTRIBUTION: UT and SD to QC, s. to LA and FL (NE, NY, MA, CT, NJ, DC); MEX, Neotropics [Robinson (1964, 1970b)]; Harmston & Rapp (1983)]. NEW COMBINATION.
- infuscatus* (Van Duzee), 1915a: 179 (*Diaphorus*); listed as a variety by Foote et al. (1965). LT designated by Arnaud (1979: 250) in CAS. Type locality: USA: DC, Washington [Poole (1996)]. NEW COMBINATION.
- vittatas* (Van Duzee), 1915a: 175 (*Diaphorus*). HT in MCZ. Type locality: USA: VA, Falls Church. NEW COMBINATION.
- vittatus*; error by Van Duzee (1915a: 164).
- litoralis** Robinson, 1964: 135. HT in USNM. Type locality: USA: NC, Carteret Co., Lennoxville Point nr Beaufort.
- longihirtus** Van Duzee, 1932b: 13. HT in CNC. Type locality: CAN: QC, Natashquan.
- longimanus** Loew, 1861a: 62. HT in MCZ. Type locality: USA: “Middle States”. DISTRIBUTION: OR, CA, CO, KS; Neotropics [Robinson (1970b)].
- major** Van Duzee, 1924b: 34. HT in CAS. Type locality: USA: NY, East Aurora.
- megalocerus** Meuffels & Grootaert, 1999: 289; n. name for *Chrysotus magnicornis* Van Duzee. Type locality: USA: NY, “Probably taken around Ithaca”. DISTRIBUTION: IA, NY.
- magnicornis* Van Duzee, 1924b: 13; preocc. by *Chrysotus magnicornis* Zetterstedt, 1843. HT in CUIC. Type locality: USA: NY, “Probably taken around Ithaca”.
- millardi** Meuffels & Grootaert, 1999: 289; n. name for *Chrysotus annulatus* Van Duzee. Type localities: USA: GA, Okefenokee Swamp, Billy’s Island; Decatur Co., Spring Creek; Tifton. DISTRIBUTION: MI, CT, VA, s. to FL [Robinson (1964)].
- annulatus* Van Duzee, 1924b: 27; preocc. by *Chrysotus annulatus* (Macquart), 1842. HT in CUIC. Type localities: USA: GA, Okefenokee Swamp, Billy’s Island; Decatur Co., Spring Creek; Tifton.
- mundus** (Loew), 1861a: 57 (*Diaphorus*). ST in MCZ. Type locality: USA: PA. DISTRIBUTION: ID, QC to PA and NJ, TN, GA, FL, NC; Neotropics [Robinson (1964, 1970b)]; Vockeroth (personal commun.)] NEW COMBINATION.
- neopicticornis** Robinson, 1967a: 119. HT in USNM. Type locality: USA: SC, 3 mi N of Spartanburg.
- nigriciliatus** Van Duzee, 1933b: 2. HT in AMNH. Type locality: USA: NH, Hanover.
- nigrifrons** Parent, 1929a: 187. HT in MLUH. Type locality: USA: TX.
- nigripalpis** Van Duzee, 1924b: 32. HT in CUIC. Type locality: USA: GA, Thalman.
- nudipes** Van Duzee, 1924b: 33. HT in CAS. Type locality: USA: CA, Sacramento.
- obliquus** Loew, 1861a: 63. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: NE and IA to ON, QC, and NS, s. to CO and FL (KS, MO, TN, MS, IN, OH, NY, VT, MA, NJ, NC, SC, GA); ?Neotropics [Robinson (1964); Harmston & Rapp (1983)].
- occidentalis** (Van Duzee), 1915a: 180 (*Diaphorus*). HT in USNM. Type locality: USA: OR, Hood River. DISTRIBUTION: AK, OR, CA, CO, NM. NEW COMBINATION.
- pallipes** Loew, 1861a: 66. ST in MCZ. Type locality: USA: “Middle States”. DISTRIBUTION: NE and IA to CT, s. to MO and GA (IL, NY,



- PA, NC); Neotropics [Robinson (1964); Harmston & Rapp (1983)].
- palpiger** (Wheeler), 1890: 360 (*Diaphorus*). HT in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: AK, WA to ON and MA, s. to CA, IL, and NY (NV, UT, AZ, CO, NE, WI) [Robinson (1964); Harmston & Rapp (1983)].
- spinifer* Malloch, 1914: 238. HT in INHS. Type locality: USA: IL, Algonquin.
- parvicornis** Van Duzee, 1924b: 12. HT in CAS. Type locality: USA: VA, Falls Church. DISTRIBUTION: IA, TN, OH, NY, DE, VA, NC, SC.
- exiguus* Van Duzee, 1924b: 23. HT in CAS. Type locality: USA: NY, Colden.
- parvulus** Van Duzee, 1924b: 25. HT in ANSP. Type locality: USA: NM (as NH, error), High Rolls.
- pectoralis** Van Duzee, 1924b: 24. HT in CUIC. Type locality: USA: GA, Okefenokee Swamp, Billy's Is. DISTRIBUTION: GA, FL.
- philtrum** Melander, 1903: 72. ST in CNC (1). Type localities: USA: TX, Austin; LA, Opelousas; PA, Chester Co. DISTRIBUTION: IA, MO, TX, LA, IN, MI, PA.
- picticornis** Loew, 1862: 214 (Cent. 2, no. 66). HT in MCZ. Type locality: USA: IL. DISTRIBUTION: CA and UT to MA, s. to FL, Bermuda; MEX, Neotropics [Knowlton & Harmston (1937); Woodley (1996)].
- pomeroyi** Parent, 1934b: 262. HT in BMNH. Type locality: USA: VA, Falls Church. DISTRIBUTION: CT, VA, NC.
- quadratus** (Van Duzee), 1915a: 179 (*Diaphorus*). HT in CAS. Type locality: CAN: ON, Fort Erie. NEW COMBINATION.
- rauterbergi** (Wheeler), 1890: 360 (*Diaphorus*). HT in AMNH. Type locality: USA: NE, Saline Co.
- repandus** (Van Duzee), 1915a: 183 (*Diaphorus*). HT in USNM. Type locality: USA: CA, Claremont. DISTRIBUTION: CA, UT [Vockeroth (personal commun.)]. NEW COMBINATION.
- sagittarius** Van Duzee, 1924b: 42. HT in CAS. Type locality: USA: NY, Buffalo.
- silvicola** Harmston, 1951a: 11. HT in CAS. Type locality: USA: CA, Tuolumne Co., Pinecrest.
- simulans** Van Duzee, 1924b: 31. HT in CAS. Type locality: USA: VA, Wallops Is. DISTRIBUTION: VA, FL.
- sodalis** (Loew), 1861a: 58 (*Diaphorus*). ST in MCZ. Type locality: USA: NY. DISTRIBUTION: NE, IA and WI to NH, s. to GA (TN, OH, NY, PA, DC, NC, SC); Neotropics [Robinson (1964, 1970b); Harmston & Rapp (1983)]. NEW COMBINATION.
- spectabilis** (Loew), 1861a: 57 (*Diaphorus*); comb. by Robinson & Vockeroth (1981: 628, fig. 7). ST in MCZ. Type locality: USA: DC. DISTRIBUTION: SD and NE to CT, s. to LA and GA (KS, IL, TN, TX, SC); MEX, Neotropics [Harmston & Rapp (1983); Vockeroth (personal commun.)].
- exunguis* (Thomson), 1869: 506 (*Diaphorus*). HT in NHRS. Type locality: Argentina, Buenos Aires [Robinson (1970b)]. NEW COMBINATION.
- approximatus* (Aldrich), 1896b: 321 (*Diaphorus*). ST in USNM (4), SEMC (2). Type locality: St. Vincent Is. [Robinson (1970b)]. NEW COMBINATION.
- subcostatus** Loew, 1864b: 181. HT in MCZ. Type locality: USA: IL. DISTRIBUTION: NE and MI to MA, s. to GA (IA, MO, TN, IL, IN, NY, VA, NC, SC), ?CA [Robinson (1964)].
- pratincola* Wheeler, 1890: 357. ST in AMNH. Type locality: USA: NE, Saline Co.
- subjectus** Van Duzee, 1924b: 40. HT in CAS. Type locality: USA: VA, Falls Church.
- tarsalis** Van Duzee, 1924b: 30. ST in USNM (2), CAS (1). Type localities: USA: LA, Opelousas; GA, Decatur Co., Spring Creek. DISTRIBUTION: TN and NC, s. to LA, GA, and FL.
- teapanus** Aldrich, 1901: 347. ST in USNM (2). Type locality: MEX: Tabasco, Teapa. DISTRIBUTION: GA, FL; MEX.
- tennesseensis** Robinson, 1964: 135. HT in USNM. Type locality: USA: TN, Sevier Co., Great Smoky Mts. National Park, Greenbrier Cove, 2000 ft.
- terminalis** Van Duzee, 1924b: 28. HT in CAS. Type locality: USA: MD, Chesapeake Beach.
- tibialis** Van Duzee, 1924b: 16. HT in CAS. Type locality: USA: ID, Lawyer's Canyon. DISTRIBUTION: ID, MB, NE, MI, NY [Harmston & Rapp (1983)].
- triangularis** Van Duzee, 1924b: 46. HT in ANSP. Type locality: USA: MD.
- triangulatus** (Van Duzee), 1915a: 189 (*Diaphorus*). HT in USNM. Type locality: USA: ID, Lewiston. DISTRIBUTION: ID, UT. NEW COMBINATION.
- usitatus** (Van Duzee), 1915a: 184 (*Diaphorus*). HT in USNM. Type locality: USA: ID, Lewiston. DISTRIBUTION: OR, ID. NEW COMBINATION.
- vanduzeei** (Robinson), 1964: 138 (*Diaphorus*); n. name for *Diaphorus communis* Van Duzee. Type locality: USA: OK, Love Co. DISTRIBUTION: OK, IA. NEW COMBINATION.
- communis* (Van Duzee), 1932a: 4 (*Diaphorus*); preocc. by *Diaphorus communis* White, 1916. HT in AMNH. Type locality: USA: OK, Love Co. NEW COMBINATION.
- variabilis** (Van Duzee), 1915a: 191 (*Diaphorus*). HT in CAS. Type locality: USA: FL, Braden-

town. DISTRIBUTION: NE and MN to NY, s. to FL (IA, IL, TN, MD, VA, NC, GA) [Robinson (1964); Harmston & Rapp (1983)]. NEW COMBINATION.

- varipes** Van Duzee, 1924b: 20. HT in CAS. Type locality: USA: NY, Erie Co. Protection.
- viduus** Loew, 1864b: 178. ST in MCZ. Type locality: USA: IL. DISTRIBUTION: KS, IL, NY, DC, FL; MEX.
- vockerothi** Pollet, NEW NAME for *Chrysotus aldrichi* Van Duzee, 1924b proposed herein by first author in recognition of the contribution of J.R. Vockeroth to the production of this catalog. Type locality: USA: GA, Tifton.
- aldrichi* Van Duzee, 1924b: 47; preocc. by *Chrysotus aldrichi* (Van Duzee), 1915a. HT in USNM. Type locality: USA: GA, Tifton.
- vulgaris** Van Duzee, 1924b: 15. HT in CAS. Type locality: USA: NY, Colden. DISTRIBUTION: NE, MI, NY, NS, CT, NC [Robinson (1964); Harmston & Rapp (1983)].
- wisconsinensis** Wheeler, 1890: 356. ST in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: WI, NY, QC, VT, NC.
- wisconsinensis*; error listed by Foote et al. (1965).
- xanthocal** Harmston & Knowlton, 1940e: 110. HT in CAS. Type locality: USA: CA, Tracy.

### Genus DIAPHORUS Meigen, 1824

- DIAPHORUS** Meigen, 1824: 32. Type species: *Diaphorus flavocinctus* Meigen [Palearctic], designation by Westwood, 1840: 134 [= *oculatus* (Fallén), 1823].
- BRACHYPUS** Meigen, 1824: 34 (when quoting *Brachypus coeruleocephalus*, a manuscript name of Megerle).
- DIAPHORA** Macquart, 1834: 447. Type species: *Diaphorus hoffmannseggii* Meigen [misid, = *oculatus* (Fallén), 1823], by original designation.
- MUNROIANA** Curran, 1924f: 229. Type species: *Diaphorus brunneus* Loew, by original designation.

NOTES: *Diaphorus* is well represented in all realms but is most diverse in the New World. Separation of *Diaphorus* and *Chrysotus* in this catalog follows the key in Robinson & Vockeroth (1981) resulting in the transfer of 12 species from *Diaphorus* to *Chrysotus* based on examination of identified material in the CNC. This genus includes both hygrophilous and xerophilous species which are known from a variety of different habitats (heathland, river banks, humid forests).

REFERENCES: Van Duzee (1915a; rev.);

Robinson (1964; key, eastern North America).

- alienus** Van Duzee, 1915a: 176. HT in USNM. Type locality: USA: OR, Hood River.
- argentifacies** Van Duzee, 1932a: 5. ST in AMNH, CAS (1). Type locality: USA: NV, Fallon.
- australis** Van Duzee, 1915a: 194, on printed slip pasted in separates; n. name for *Diaphorus femoratus* Van Duzee. Type locality: USA: LA, Opelousas.
- femoratus* Van Duzee, 1915a: 194; preocc. by *Diaphorus femoratus* Walker, 1852–1853. HT in USNM. Type locality: USA: LA, Opelousas.
- bakeri** Robinson, 1967a: 117. HT in USNM. Type locality: USA: WA, Olga.
- basalis** Van Duzee, 1915a: 168. HT in MCZ. Type locality: USA: VA, Glencarlynn. DISTRIBUTION: IA, VA, NC.
- brevinervis** Van Duzee, 1924f: 2. HT in USNM. Type locality: USA: AK, Fairbanks.
- californicus** Van Duzee, 1917c: 33. LT designated by Arnaud (1979: 249) in CAS. Type localities: USA: CA, Los Angeles Co., Los Cerritos; San Diego Co., Alpine.
- canus** Robinson, 1964: 140. HT in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: LA, TN, IN.
- consanguineus** Harmston & Knowlton, 1963: 232. HT in CAS. Type locality: USA: CA, Los Angeles Co., Tanbark Flat.
- contiguus** Aldrich, 1896b: 323. ST in USNM (4), SEMC (1). Type locality: St. Vincent Is. DISTRIBUTION: NC, SC, FL, Bermuda; Neotropics [Robinson (1964); Woodley & Hilburn (1994)].
- funeralis** Parent, 1929a: 188. HT in MLUH. Type locality: USA: GA. DISTRIBUTION: GA, FL.
- fuscus** Van Duzee, 1921b: 122; n. name for *Diaphorus adustus* Van Duzee. Type localities: USA: ID, Moscow; NV, Wells. DISTRIBUTION: AK, YT, NT, BC, ID, NV, UT, CO, MB [Vockeroth (personal commun.)].
- adustus* Van Duzee, 1915a: 172; preocc. by *Dolichopus adustus* Wiedemann, 1830, now *Diaphorus*. ST (2) in USNM. Type localities: USA: ID, Moscow; NV, Wells.
- gibbosus** Van Duzee, 1915a: 173. HT in CAS. Type locality: USA: NY, Little Valley. DISTRIBUTION: AK, CA, IA to ON, ME, s. to SC (AB, WI, NY, PA, VT, MA, NC) [Robinson (1964); Vockeroth (personal commun.)].
- hirsutus** Van Duzee, 1921b: 120. HT in CAS. Type locality: USA: CA, Berkeley.
- inornatus** Van Duzee, 1917c: 38. LT designated by Arnaud (1979: 250) in CAS. Type locality: USA: CA, San Diego Co., Alpine; Fresno.

- intermedius** Robinson, 1964: 139. HT in USNM. Type locality: USA: SC, Oconee Co., 3 mi S of Walhalla, 34°39'N, 83°3'W, 1000 ft.
- iowensis** Robinson, 1964: 138. HT in USNM. Type locality: USA: IA, Ledges State Park.
- junctus** Van Duzee, 1917c: 35. LT designated by Arnaud (1979: 250) in CAS. Type locality: USA: CA, Los Angeles Co.
- laffooni** Robinson, 1964: 140. HT in USNM. Type locality: USA: IA, Valentine. DISTRIBUTION: SD, NE, IA.
- lamellatus** Loew, 1864b: 165. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: NE, IA, NY, PA, VA, NC, SC [Robinson (1964); Harmston & Rapp (1983)].
- latifacies** Van Duzee, 1932a: 6. ST in AMNH (2). Type locality: USA: OK, Woods Co.
- longilamellus** Harmston, 1971: 87. HT in FSCA. Type locality: USA: GA, Oatland Is.
- millardi** Meuffels & Grootaert, 1999: 291; n. name for *Diaphorus disjunctus* (Van Duzee). Type locality: USA: VA, Falls Church. DISTRIBUTION: MA, VA.
- disjunctus* (Van Duzee), 1924b: 33 (*Chrysotus*); transferred by Robinson (1964), preocc. by *Diaphorus disjunctus* Loew, 1857a. HT in CAS. Type locality: USA: VA, Falls Church.
- nigricans** Meigen, 1824: 33. ST in ?MNHN. Type locality: Germany. DISTRIBUTION: UT to ME, s. to TN and FL (NE, MA, VA, NC); MEX, Neotropics, Palearctic [Robinson (1964); Harmston & Rapp (1983)].
- obscurellus* Zetterstedt, 1838: 706. ST in MZLU. Type localities: Sweden: "Lapponia Umensi; Almsele; Lapponia meridionalis; Suecia media, Ostrogothia, Laerketorp" [Negrobov (1991)].
- opacus* Loew, 1861a: 56. HT in MCZ. Type locality: USA: NY.
- sokolovi* Stackelberg, 1928b: 73. ST in ZIN. Type localities: Russia: Siberia orientalis, province Transbaikalia, flumen Antipicha; province opidum Tshida; province Litoralis district Sutshanicus; Sedanka, district Vladivostok [Negrobov (1991)].
- nudus** Van Duzee, 1917c: 34. ST in CAS (2), USNM (2). Type locality: USA: VA, Wallops Is. DISTRIBUTION: NY, PA, VA, NC.
- parmatus** Van Duzee, 1915a: 181. HT in USNM. Type locality: USA: CA.
- pseudopacus** Robinson, 1964: 141. HT in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: BC, CA, SK, NM, IA, WI, IN, TN, OH, ON, QC, NY, NS, MD, VA, NC, GA, FL [Vockeroth (personal commun.)].
- crinipes* Robinson, 1964: 142; as subspecies of *Diaphorus pseudopacus* Robinson, 1964. HT in USNM. Type locality: USA: IN, Lafayette [Robinson (1964); Poole (1996)].
- remulus** Van Duzee, 1915a: 182. HT in USNM. Type locality: USA: SD, Brookings.
- similis** Van Duzee, 1915a: 186. HT in ANSP. Type locality: USA: PA, Delaware Co. DISTRIBUTION: PA, SC, GA.
- slossonae** Van Duzee, 1932a: 5. HT in AMNH. Type locality: USA: FL, Lake Worth.
- snowii** Van Duzee, 1917c: 36. HT in SEMC. Type locality: USA: AZ, Oak Creek Canyon, 6000 ft. DISTRIBUTION: AB, SK, MB, UT, CO, AZ [Vockeroth (personal commun.)].
- sparsus** Van Duzee, 1917c: 37. HT in CAS. Type locality: USA: VA, "Glencarlynn to mouth 4-in. Run". DISTRIBUTION: NY, VA.
- spinitalus** Van Duzee, 1923d: 67. HT in CAS. Type locality: USA: CA, Eldorado Co., Strawberry Valley.
- texanus** Van Duzee, 1932a: 7. HT in AMNH. Type locality: USA: TX, Galveston.
- trivittatus** Van Duzee, 1915a: 187. HT in CAS. Type locality: USA: FL, Bradentown. DISTRIBUTION: GA, FL; MEX, Neotropics [Robinson (1964, 1970b)].
- ventralis** Van Duzee, 1915a: 170. HT in USNM. Type locality: Belize. DISTRIBUTION: northeastern U.S.; Neotropics [Robinson (1964, 1970b)].
- versicolor** Van Duzee, 1932a: 6. HT in AMNH. Type locality: USA: TX, Galveston.
- vulsus** Van Duzee, 1917c: 38. HT in SEMC. Type locality: USA: AZ, Bill William's Fork.

### Genus KEIROSOMA Van Duzee, 1929

**KEIROSOMA** Van Duzee, 1929: 24. Type species: *Keirosoma albicinctum* Van Duzee [Neotropical], by original designation. Listed in Rhaphiinae by Foote et al. (1965).

NOTES: Foote et al. (1965) placed *Keirosoma* in the Rhaphiinae because Van Duzee (1929) considered *Keirosoma* similar to *Nematoproctus*. Subsequently, Robinson (1970a, 1970b) placed *Keirosoma* in the Diaphorinae without explanation. Although *Keirosoma* may not belong in the Diaphorinae, the systematic position adopted by Robinson (1970a, 1970b) is followed here until placement of the genus is resolved. *Keirosoma* is only known from the New World. The habits of *K. slossonae* are unknown.

REFERENCE: Robinson (1964; key, New World).

**slossonae** Van Duzee, 1933b: 2. HT in AMNH. Type locality: USA: FL, Biscayne Bay. Dis-

TRIBUTION: FL, MD [Bickel (personal commun.)].  
*albicinctum*, not Van Duzee 1929: 24, misid. by Van Duzee 1929: 25. FL paratype.

SUBFAMILY DOLICHOPODINAE  
 LATREILLE, 1809: 239, 290

**Genus DOLICHOPUS Latreille, 1796**

**DOLICHOPUS** Latreille, 1796: 159. Type species: *Musca unguolata* Linnaeus [Palearctic], designation by Latreille, 1810: 443.

**RAGHENEURA** Rondani, 1856: 144. Type species: *Dolichopus griseipennis* Stannius, by original designation. Dyte (1975) states “*Ragheneura* Rondani has priority over *Eudolichopus* Frey, and the use of Rondani’s name would create confusion as an emendation of it has been used in another sense” [i.e., *Rhagoneurus* Loew 1864b, an unavailable senior synonym of *Lichtwardtia* Enderlein 1912].

**HYGROCELEUTHUS** Loew, 1857a: 10. Type species: *Dolichopus latipennis* Fallén, designation by Coquillett, 1910c: 554. Listed as subgenus of *Dolichopus* in Negrobov (1991).

**SPATHICHIRA** Bigot, 1888a: xxiv. Type species: *Dolichopus funditor* Loew, by original designation.

**SPATICHIRA** Bigot, 1888b: xxx, error or unjustified emendation listed by Foote et al. (1965).

**EUDOLICHOPUS** Frey, 1915: 10 (as subgenus). Type species: *Musca plumipes* Scopoli, designation by Steyskal, 1973b: 347. See notes under *Ragheneura* Rondani, 1856.

**LEUCODOLICHOPUS** Frey, 1915: 10 (as subgenus). Type species: *Dolichopus remipes* Wahlberg, designation by Steyskal, 1973b: 348.

**MELANODOLICHOPUS** Frey, 1915: 10 (as subgenus). Type species: *Dolichopus stenhammari* Zetterstedt, designation by Steyskal, 1973b: 348.

**HYDROCELEUTHUS** Aldrich, 1921: 8. Type species: *Dolichopus latipennis* Fallén, automatic. Unjustified emendation.

**MACRODOLICHOPUS** Stackelberg, 1933: 109 (as subgenus). Type species: *Dolichopus diadema* Haliday, by original designation. Listed as subgenus of *Dolichopus* in Negrobov (1991).

**RAGHENERURA**, error by Dyte (1975: 232).

NOTES: *Dolichopus* is primarily Holarctic and is most diverse in the Nearctic, but also occurs in the Oriental realm and on Hawaii. Three widespread Nearctic species also occur south of the United States but have not been recorded south of Mexico (Robinson,

1970b). *Dolichopus* species are among the largest and most common members of the family in North America. The majority of *Dolichopus* species prefer humid habitats and some are restricted to saltmarshes.

REFERENCES: Van Duzee et al. (1921; rev.); Van Duzee & Curran (1934a; key to males; 1934b; key to females); Steyskal (1973b; key, males of Group B); Steyskal (1938, 1942, 1947b, 1959; biology); Robinson (1964; key, southeastern U.S.); Vockeroth (1995; key, Ottawa district ON).

**abaftanus** Harmston, 1966a: 6. HT in USNM. Type locality: USA: OR, Howard Prairie Lake Reservoir, 21 mi E of Ashland.

**abbreviatus** Van Duzee, 1921c: 144. HT in USNM. Type locality: CAN: NF, Labrador, Ungava Bay. DISTRIBUTION: NF (Labrador), ME.

**aboriginis** Harmston & Knowlton, 1943a: 102. HT in USNM. Type locality: USA: UT, Mountain Home. DISTRIBUTION: UT, MT.

**abrasus** Van Duzee, 1921c: 162. HT in USNM. Type locality: NY, Erie Co., Grand Is.

**abruptus** Aldrich, 1922a: 14. HT in USNM. Type locality: USA: NY, Essex Co., Lake Tear. DISTRIBUTION: MI, ON, QC, NY.

**absonus** Van Duzee, 1921c: 294. HT in USNM. Type locality: USA: NY, Erie Co., Grand Is. DISTRIBUTION: IA, MO, MI, IN, ON, NY, QC. *absonus*; error listed by Foote et al. (1965).

**accidentalis** Harmston & Knowlton, 1941b: 93. HT in SEMC. Type locality: USA: CO, Spring Creek Pass.

**agricola** Van Duzee, 1921c: 58. HT in USNM. Type locality: USA: CA, Soda Springs, Tuolumne Meadows, 8600 ft.

**acuminatus** Loew, 1861a: 12. HT in MCZ. Type locality: USA: DC, Washington. DISTRIBUTION: MB to QC, s. to OR, UT, NM and DC (NV, MT, WY, CO, ND, SD, NE, MN, IA, MO, IL, MI, IN, OH, VT, NB) [Robinson (1964); Harmston & Rapp (1983)].

**acutus** Van Duzee, 1921c: 142. HT in USNM. Type locality: USA: MA, Springfield.

**adaequatus** Van Duzee, 1921c: 53. HT in USNM. Type locality: USA: NV, Wells. DISTRIBUTION: BC to MN, s. to NV, NM, and NE [Harmston & Rapp (1983)].

**adjacens** Walker, 1848–1849: 661; listed as unplaced by Foote et al. (1965); however, placement in *Dolichopus* indicated by Parent (1934a). HT in BMNH. Type locality: CAN: ON, Hudson’s Bay, Albany River, St. Martin’s Falls.

**adultus** Van Duzee, 1921c: 98. HT in USNM.

- Type locality: USA: NY, Lewiston. DISTRIBUTION: MI, NY, NB, NS, ME, MA, NJ [Bissett (1987); Vockeroth (personal commun.)].
- aequalis** Van Duzee, 1921c: 81. HT in USNM. Type locality: USA: NY, Colden. DISTRIBUTION: NY, QC, NS [Bissett (1987)].
- aeratus** Van Duzee, 1921c: 211. HT in USNM. Type locality: USA: CO. DISTRIBUTION: BC, AB, MT, WY, CO.
- aethiops** Van Duzee, 1921c: 296. HT in USNM. Type locality: USA: IN, Lafayette.
- affinis** Walker, 1848–1849: 659. ST in BMNH. Type locality: CAN: NS. DISTRIBUTION: MB, WI, IL, ON, QC, NH, NB, NS, NF [Vockeroth (personal commun.)].
- splendidulus* Loew, 1864a: 91 (Cent. 5, no. 82). ST in MCZ. Type locality: USA: NH, White Mountains [according to Van Duzee (1921c)].
- affluens** Van Duzee, 1921c: 114. HT in USNM. Type locality: USA: WA, Orcas Is., Mt. Constitution. DISTRIBUTION: WA, CO.
- agronomus** Melander & Brues, 1900: 140. HT in AMNH. Type locality: USA: MA, New Bedford. DISTRIBUTION: ON, NB, NS, MA, NH [Bissett (1987); Vockeroth (personal commun.)].
- ainsliei** Van Duzee, 1921c: 272. HT in USNM. Type locality: USA: MN, Olmstead Co. DISTRIBUTION: NE, MN, WI, QC, NY [Harmston & Rapp (1983)].
- alacer** Van Duzee, 1921c: 86. HT in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: IN to ON and QC, s. to LA and FL (TN, NC, SC, GA, TX), ?MB [Robinson (1964); Vockeroth (personal commun.)].
- albertensis** Curran, 1923a: 286. HT in CNC. Type locality: CAN: AB, Banff. DISTRIBUTION: AB, CO [Sabrosky (1978)].
- albiciiliatus** Loew, 1862: 211 (Cent. 2, no. 59). HT in MCZ. Type locality: USA: IL. DISTRIBUTION: NE and IA to QC, s. to NJ (ON, WI, IL, IN, MI, OH, NY, NH) [Robinson (1964); Harmston & Rapp (1983)].
- atrovirens* Harris in Johnson, 1925: 77; nomen nudum.
- albicoxa** Aldrich, 1893a: 10. ST in SEMC (2). Type localities: USA: MA; CT. DISTRIBUTION: NE, MN and IL to QC, s. to NJ (ON, WI, IN, MI, NY, VT, NH, MA, RI, CT), ?AB [Robinson (1964); Harmston & Rapp (1983)].
- albivestitarsis** Robinson, 1964: 155. HT in USNM. Type locality: USA: NC, Transylvania Co., N of Brevard, Pisgah National Forest, 3000 ft. DISTRIBUTION: TN, NC.
- aldrichii** (Wheeler), 1899: 3 (*Hygroceleuthus*). ST in AMNH. Type localities: USA: ID, Moscow; WY, Dubois; Two-gwo-te-ee Pass. DISTRIBUTION: BC, WA, OR, ID, MT, WY, UT, CO.
- amnicola** (Melander & Brues), 1900: 130 (*Hygroceleuthus*). HT in AMNH. Type locality: USA: CO, Grizzly Creek, North Park. DISTRIBUTION: ID to MB, s. to CA, UT and CO (MT, WY, NE) [Knowlton & Harmston (1937)].
- robertsoni* Curran, 1923c: 191; as sp.; listed as a variety by Foote et al. (1965). HT in CNC. Type locality: CAN: MB, Baldur [Poole (1996)].
- amphericus** Melander & Brues, 1900: 146. ST in AMNH (3), USNM (2). Type locality: USA: WI, Price Co. DISTRIBUTION: AK, AB, SK, UT, CO, WI [Vockeroth (personal commun.)].
- amplipennis** Van Duzee, 1921c: 197. HT in USNM. Type locality: USA: CO. DISTRIBUTION: CO, MI.
- andersoni** Curran, 1924d: 304. HT in CNC. Type locality: CAN: BC, Duncan.
- angustatus** Aldrich, 1893a: 15. HT in SEMC. Type locality: USA: MA. DISTRIBUTION: MN, VT, ME, NH, MA.
- angusticornis** Van Duzee, 1921c: 79. HT in USNM. Type locality: USA: IN, Evansville.
- annulitarsis** Ringdahl, 1920: 24. ST in ?NHRS. Type locality: Sweden: Lappland, Torneträsk. DISTRIBUTION: AK; Palearctic [Vockeroth (personal commun.)]. NEW RECORD.
- apheles** Melander & Brues, 1900: 144. HT in AMNH. Type locality: USA: WI, Milwaukee. DISTRIBUTION: SK, WI, MI, QC.
- appendiculatus** Van Duzee, 1921c: 72. HT in USNM. Type locality: USA: NV, Wells. DISTRIBUTION: NV, UT, SK [Vockeroth (personal commun.)].
- argentipes** Van Duzee, 1921c: 61. HT in CAS. Type locality: USA: WA, Paradise Valley, Mt. Rainier.
- arizonicus** Harmston, 1951b: 103. HT in SEMC. Type locality: USA: AZ, Huachuca Mts., Sunnyside Canyon. DISTRIBUTION: AZ, TX.
- aurifacies** Aldrich, 1893a: 20. ST in USNM (4). Type localities: USA: KS, Lawrence; TN, Knoxville.
- aurifex** Van Duzee, 1921c: 224. HT in USNM. Type locality: USA: OR, Newport. DISTRIBUTION: OR, NM.
- bakeri** Cole, 1912: 839. HT in USNM. Type locality: USA: CA, Laguna Beach. DISTRIBUTION: BC to SK, s. to CA, UT, and NM.
- barbaricus** Van Duzee, 1921c: 41. HT in USNM. Type locality: USA: CO. DISTRIBUTION: MT, UT, CO [Vockeroth (personal commun.)].
- barbicauda** Van Duzee, 1921c: 76. HT in USNM. Type locality: CAN: ON, Toronto. DISTRIBUTION: BC to PEI and NS, s. to NE, IA, and NY

- (MT, MI) [Bissett (1987); Harmston & Rapp (1983)].
- barbipes** Van Duzee, 1921c: 129. HT in USNM. Type locality: USA: NV, Wells. DISTRIBUTION: NV, CO.
- barycnemus** Coquillett, 1900: 424. HT in USNM. Type locality: USA: AK, Popof Is. *braycnemus*; error by Van Duzee & Curran (1934a: 12).
- beameri** Harmston & Knowlton, 1941b: 92. HT in SEMC. Type locality: USA: AZ, Chiricahua Mts.
- beatus** Van Duzee, 1921c: 63. HT in USNM. Type locality: USA: ID, Craig's Mountain.
- bifRACTUS** Loew, 1861a: 19. ST in MCZ, CNC (3). Type localities: USA: NE; IL, Chicago [according to Van Duzee (1921c)]. DISTRIBUTION: AB to QC, s. to UT, MO, and NJ (ND, SD, NE, KS, IA, ON, WI, IL, IN, MI, OH, NY, NH, MA); MEX [Robinson (1964)].
- bisetosus** Van Duzee, 1921c: 77. HT in USNM. Type locality: USA: ID, Craig's Mountain.
- blandus** Van Duzee, 1921c: 176. HT in USNM. Type locality: USA: CO, Tennessee Pass. DISTRIBUTION: ID, MT, UT, CO, ?ON.
- bolsteri** Van Duzee, 1921c: 249. HT in MCZ. Type locality: CAN: NF, Little River.
- brevicauda** Van Duzee, 1921c: 108. HT in MCZ. Type locality: USA: NH, Mt. Washington.
- breviciliatus** Van Duzee, 1930c: 71. HT in USNM. Type locality: CAN: AB, Laggan, Paradise Valley, Saddle Mt., 6000–7000 ft.
- brevimanus** Loew, 1861a: 14. HT in MCZ. Type locality: USA: DC, Washington. DISTRIBUTION: NT and MB to QC and NS, s. to WI and DC (NY, VT, NH, ME) [Robinson (1964); Bissett (1987); Vockeroth (personal commun.)].
- brevipennis** Meigen, 1824: 89. ST in ?MNH. Type locality: Sweden. DISTRIBUTION: AK, YT, NT, BC, MT, AB, SK, QC, PEI, and NF (Labrador); Palearctic (W. Europe to E. Siberia) [Johnson (1929); Vockeroth (personal commun.)].
- brevipilosus** Van Duzee, 1933b: 20; n. name for *Dolichopus breviciliatus* Van Duzee. Type locality: CAN: QC, Natashquan. *breviciliatus* Van Duzee, 1933a: 13; preocc. by *Dolichopus breviciliatus* Van Duzee, 1930c. HT in CNC. Type locality: CAN: QC, Natashquan.
- bruESI** Van Duzee, 1921c: 223; n. name for *Dolichopus propinquus* Melander & Brues. Type locality: CAN: BC, Vancouver Is., Corfield. DISTRIBUTION: BC, WA, CA, WY, WI. *propinquus* (Melander & Brues), 1900: 132 (*Hypogroceleuthus*); as *consanguineus* variety; preocc. by *Dolichopus propinquus* Zetterstedt, 1852. ST in AMNH (2). Type locality: CAN: BC, Vancouver Is., Corfield.
- ungulatus*, not (Linnaeus); misid., WI record in Van Duzee & Curran (1934a, 1934b) and Foote et al. (1965). Not Nearctic [Dyte (personal commun.)].
- bruneifacies** Van Duzee, 1933a: 14. ST in CAS (2). Type locality: USA: CO, La Plata Co., Electric Lake, 8400 ft.
- brunneus** Aldrich, 1893a: 14. HT in USNM. Type locality: USA: SD, Brookings. DISTRIBUTION: CO, SD. *brunneus* Van Duzee; error by Van Duzee & Curran (1934a: 4).
- bryanti** Van Duzee, 1921c: 104. HT in MCZ. Type locality: CAN: NF, Labrador, Great Caribou Is. DISTRIBUTION: QC, NF (Labrador).
- burnesi** Van Duzee, 1921c: 64. HT in ?USNM. Type locality: USA: NY, Staten Is. DISTRIBUTION: MI, ON, QC, NY, MA, NJ, VA.
- calainus** Melander & Brues, 1900: 138. HT in AMNH. Type locality: USA: IL, Chicago. DISTRIBUTION: IL, ME.
- calcaratus** Aldrich, 1893a: 8. HT in USNM. Type locality: USA: NJ, Dover. DISTRIBUTION: ON to QC, s. to IA and NJ (NY, NH, CT) [Steyskal (1973b)].
- californicus** Van Duzee, 1921c: 99. HT in USNM. Type locality: USA: CA, Sacramento. DISTRIBUTION: CA, WA, NV.
- calvimontis** James, 1939: 221. HT in ANSP. Type locality: USA: CO, Rocky Mountain National Park, Trail Ridge Road, 12,200 ft.
- canadensis** Van Duzee, 1921c: 141. HT in USNM. Type locality: CAN: ON, Kearney. DISTRIBUTION: SK to QC and NS, s. to WY, NE, and MA (MT, SD, MI) [Harmston & Rapp (1983); Bissett (1987)].
- canaliculatus** Thomson, 1869: 512. HT in NHRS. Type locality: USA: CA. DISTRIBUTION: BC, CA, NV [Vockeroth (personal commun.)].
- carolinensis** Van Duzee, 1921c: 239. HT in MCZ. Type locality: USA: NC, Southern Pines. DISTRIBUTION: NC, FL.
- cavatus** Van Duzee, 1921c: 226. HT in USNM. Type locality: USA: OR, Hood River. DISTRIBUTION: OR, CA.
- celeripes** Van Duzee, 1921c: 243. HT in USNM. Type locality: USA: OR, Hood River. DISTRIBUTION: OR, UT, CO, NE, ON [Harmston & Rapp (1983)].
- chrysostomus** Loew, 1861a: 23. HT in MCZ. Type locality: USA: DC, Washington. DISTRIBUTION: ON to NS, s. to GA (IA, TN, QC, MA, DC, NC) [Robinson (1964); Vockeroth (personal commun.)].
- coercens** Walker, 1848–1849: 661. HT in BMNH. Type locality: USA: NY. DISTRIBUTION: SD and

- IL to NS and NJ (WI, IA, ON, NY, VT, NH, CT, MA, NF) [Robinson (1964); Vockeroth (personal commun.)].
- conterminus* Walker, 1848–1849: 664. ST in BMNH. Type localities: North America; USA: NY.
- batillifer* Loew, 1861a: 15. ST in MCZ. Type locality: USA: “Middle States”.
- coloradensis** Aldrich, 1893a: 26; n. name for *Dolichopus agilis* Aldrich. Type locality: USA: CO. DISTRIBUTION: AB, AZ, CO, NM, ON, QC.
- agilis* Aldrich, 1893a: 16; preocc. by *Dolichopus agilis* Meigen, 1824. ST in SEMC (3). Type locality: USA: CO.
- comatus** Loew, 1861a: 23. ST in MCZ, CNC (1). Type localities: USA: PA; MD. DISTRIBUTION: NE and IA to QC, s. to TX and GA (ON, WI, LA, IL, IN, TN, OH, NY, PA, MA, NJ, MD, DC, NC, SC, VA) [Robinson (1964); Harmston & Rapp (1983)].
- cornutus*; error by Johnson (1910: 756).
- compactus** Van Duzee, 1921c: 206. HT in USNM. Type locality: USA: OR, Hood River. DISTRIBUTION: BC, OR.
- completus** Van Duzee, 1921c: 210. HT in USNM. Type locality: USA: CA, Mono Lake. DISTRIBUTION: BC, CA.
- comptus** Van Duzee, 1921c: 160. HT in CAS. Type locality: USA: CA, Tahoe, Tallac Lake.
- confinis** Walker, 1848–1849: 664. HT in BMNH. Type locality: CAN: ON, Hudson’s Bay, Albany River, St. Martin’s Falls.
- consanguineus** (Wheeler), 1899: 5 (*Hygrocelestus*). ST in AMNH, CNC (2). Type locality: USA: CA, Monterey Co. DISTRIBUTION: CA, UT, ID, CO, MT, WY.
- conspicuosus** Van Duzee, 1921c: 65. HT in USNM. Type locality: USA: ID, Market Lake. DISTRIBUTION: BC to SK, MB, s. to ID, UT, CO, and NE [Knowlton & Harmston (1937); Harmston & Rapp (1983); Vockeroth (personal commun.)].
- conspicuosus*; error by Van Duzee (1921c: 13).
- contiguus** Walker, 1848–1849: 663. HT in BMNH. Type locality: USA: NY. DISTRIBUTION: ND to QC and NS, s. to NE, IL, and VA (SD, ON, MI, IN, NH, MA) [Robinson (1964); Harmston & Rapp (1983); Wright (1989)].
- splendidus* Loew, 1861a: 14. HT in MCZ. Type locality: USA: IL.
- convergens** Aldrich, 1893a: 9. ST in SEMC (4), USNM (1). Type localities: USA: OR, Mt. Hood; WA. DISTRIBUTION: BC, WA, OR [Vockeroth (personal commun.)].
- coquilletti** Aldrich, 1893a: 19. HT in USNM. Type locality: USA: CA. DISTRIBUTION: WA to PEI, s. to CA, UT, and CO.
- coquilletti*; error by Aldrich (1905: 300).
- corax** Osten Sacken, 1877: 314. ST in MCZ. Type locality: USA: CA, Sierra Nevada, Webber Lake. DISTRIBUTION: CA, ?BC.
- correus** Steyskal, 1959: 1. HT in UMMZ. Type locality: USA: MI, Wayne Co., Grosse Ile. DISTRIBUTION: MN to NY, s. to TN and NC (IA, IL, IN, MI, ON, NJ) [Robinson (1964); Vockeroth (personal commun.)].
- crassicornis** Aldrich, 1922a: 10. HT in USNM. Type locality: USA: AK, Healy.
- crassitibia** Robinson, 1967a: 114. HT in USNM. Type locality: USA: MD, Montgomery Co., nr Plummer’s Is., shore of Potomac River.
- crenatus** (Osten Sacken), 1877: 312 (*Hygrocelestus*). ST in MCZ. Type locality: USA: CA, Sonoma Co., Los Guilucos. DISTRIBUTION: BC to PEI, s. to CA and AZ.
- cuprinus** Wiedemann, 1830: 230; n. name for *Dolichopus cupreus* Say. Type locality: USA: MD. DISTRIBUTION: NT, BC to NS, s. to NV and VA (UT, WY, SD, NE, KS, IA, ON, WI, IL, MI, IN, OH, NY, QC, ME, MA, CT, NJ, MD) [Robinson (1964)].
- cupreus* Say, 1823: 86 (also in LeConte, 1859: 76); preocc. by *Dolichopus cupreus* Fallén, 1823, now *Hercostomus* subg. *Gymnopternus* (*Gymnopternus* is not currently assigned full generic status in the Palearctic). ST destroyed. Type locality: USA: MD.
- czekanovskii** Stackelberg, 1928a: 263. HT in ZIN. Type locality: Russia: northern Siberia, Olenek. DISTRIBUTION: AK, NT; Palearctic (northern Siberia) [Vockeroth (personal commun.)].
- czekanowskii*; error by Foote et al. (1965: 490).
- dakotensis** Aldrich, 1893a: 11. ST in USNM (12), SEMC (2). Type locality: USA: SD, Brookings. DISTRIBUTION: MT, SD, and MB to QC, s. to NE and IL [Harmston & Rapp (1983)].
- dasyops** Malloch, 1919a: 49. HT in CNC. Type locality: CAN: NT, Bernard Harbour, Dolphin and Union strait. DISTRIBUTION: YT, NT; Palearctic [Negrobov (1991); Vockeroth (personal commun.)].
- dasypodus** Coquillett, 1910b: 42. HT in USNM. Type locality: USA: NH, White Mts., Mt. Washington. DISTRIBUTION: AK, MI, QC, NY, VT, NH, ME, NF [Johnson (1929); Vockeroth (personal commun.)].
- decorus** Van Duzee, 1921c: 153. HT in USNM. Type locality: USA: IL, Algonquin. DISTRIBUTION: NE, IL, MI to NY [Harmston & Rapp (1983)].
- defectus** Van Duzee, 1921c: 143. HT in USNM. Type locality: CAN: ON, Toronto. DISTRIBUTION: MB to QC and NS, s. to CT, ?NM [Bissett (1987)].

- deflectus*; error listed by Foote et al. (1965).
- delicatus** Aldrich, 1922a: 12. HT in USNM. Type locality: CAN: NF, Labrador, Ungava Bay.
- demissus** Van Duzee, 1921c: 63. HT in USNM. Type locality: USA: NY, Brawn's Mills Junction. DISTRIBUTION: NY, NJ, NS [Bissett (1987)].
- detersus** Loew, 1866b: 44 (Cent. 7, no. 79). HT in MCZ. Type locality: USA: NY, Saratoga. DISTRIBUTION: AK, MB to QC, s. to SD, NE, IA, and NY [Harmston & Rapp (1983)].
- digitus** Van Duzee, 1921c: 283. HT in USNM. Type locality: USA: LA.
- discessus** Walker, 1848–1849: 662. HT in BMNH. Type locality: USA: MA.
- discolor** Van Duzee, 1921c: 116. HT in USNM. Type locality: USA: NY, Erie Co., Hamburg. DISTRIBUTION: ND to ON, VT, s. to IL [Vockeroth (personal commun.)].
- distinctus** Van Duzee, 1921c: 274; listed as a variety (Foote et al., 1965) or synonym (Poole, 1996) of *Dolichopus funditor* Loew, 1861a but considered distinct by Robinson (1964) and Hurley (personal commun.). HT in USNM. Type locality: USA: LA, Opelousas. DISTRIBUTION: LA, ON, NJ. REMOVED FROM SYNONYMY.
- distraclus** Walker, 1848–1849: 662. HT in BMNH. Type locality: USA: NY.
- diversipennis** Curran, 1923a: 286; publication date 1923 according to Sabrosky (1978). HT in CNC. Type locality: CAN: AB, Nordegg. DISTRIBUTION: AK, NT, BC, AB, MB [Vockeroth (personal commun.)].
- divigatus** Harmston, 1952: 284. HT in USNM. Type locality: USA: OR, Mt. Hood, Mt. Hood Meadows.
- dolosus** Parent, 1934b: 267. HT in BMNH. Type locality: USA: WI, Hartland, Pine Lake.
- domesticus** Van Duzee, 1921c: 246. HT in USNM. Type locality: USA: NY, East Aurora. DISTRIBUTION: MI to NY, NJ, VA.
- dorsalis** Van Duzee, 1921c: 161. HT in USNM. Type locality: USA: NM, White Mts., Rio Ruidoso, 6500 ft. DISTRIBUTION: NM, AZ; MEX [Vockeroth (personal commun.)].
- dorycerus** Loew, 1864a: 93 (Cent. 5, no. 85). HT in MCZ. Type locality: USA: NH, White Mts. [according to Van Duzee (1921c)]. DISTRIBUTION: NS and NH s. to TN and GA (NY, WV, NC) [Robinson (1964); Bissett (1987)].
- duplicatus** Aldrich, 1893a: 18. HT in SEMC. Type locality: USA: WA. DISTRIBUTION: BC, WA, MT, s. to CA and UT [Vockeroth (personal commun.)].
- elegans** Aldrich, 1922a: 12. HT in USNM. Type locality: USA: CO, Tennessee Pass, 10,240 ft.
- enigma** Melander & Brues, 1900: 139. HT in AMNH. Type locality: USA: CO, North Park, over 9000 ft. DISTRIBUTION: BC, ID, MT, WY, NV, UT, CO, MI [Vockeroth (personal commun.)].
- eudactylus** Loew, 1861a: 16. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: NE, KS, and IA to NS, s. to NC (WI, ON, MI, IN, NY, MA, NJ, VA) [Robinson (1964); Harmston & Rapp (1983)].
- edactylus*; error listed by Foote et al. (1965).
- evolvens** Parent, 1929a: 173. HT in MLUH. Type locality: USA: NH.
- exclusus** Walker, 1848–1849: 663. HT in BMNH. Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls.
- facirecedens** Harmston & Knowlton, 1939c: 83. HT in USNM. Type locality: USA: SD, Wauabay. DISTRIBUTION: SD, IA.
- factivittatus** Harmston, 1966a: 10. HT in USNM. DISTRIBUTION: USA: IN, Terre Haute.
- fallax** Van Duzee, 1933a: 14. ST in AMNH. Type locality: USA: CO, La Plata Co., Electric Lake, at about 8400 ft.
- finitus** Walker, 1848–1849: 662. ST in BMNH. Type locality: USA: NY. DISTRIBUTION: ON to NE, s. to KS and PA (WI, MI, IL, NY, QC, NH, ME, MA, NJ, NS) [Robinson (1964); Vockeroth (personal commun.)].
- atricornis* Harris, 1835: 597; nomen nudum.
- scoparius* Loew, 1864b: 70. ST in MCZ. Type localities: USA: ME; MA.
- flagellitenens** Wheeler, 1890: 339. HT in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: SD to NH, s. to CO.
- flaviciliatus** Van Duzee, 1921c: 152. HT in USNM. Type locality: CAN: ON, Waubamic.
- flavicoxa** Van Duzee, 1921c: 188. HT in USNM. Type locality: USA: WI, Polk Co. DISTRIBUTION: BC to WI, NY and QC, s. to NE and WV [Harmston & Rapp (1983); Beaulieu & Wheeler (2001)].
- flavifacies** Van Duzee, 1933a: 15. HT in CNC. Type locality: CAN: QC, Harrington Harbor. DISTRIBUTION: QC, NF [Vockeroth (personal commun.)].
- flavilacertus** Van Duzee, 1921c: 110. HT in USNM. Type locality: USA: MD, Beltsville. DISTRIBUTION: ON to MA, s. to TX, TN, and NC (QC, NB, NS, NH, NJ, MD, VA) [Robinson (1964); Bissett (1987); Vockeroth (personal commun.)].
- flavipes** Stannius, 1831: 129. HT in ?ZMHB. Type locality: France: Marseille. DISTRIBUTION: AK; Palearctic [Vockeroth (personal commun.)]. NEW RECORD.
- footei** Harmston, 1966a: 4. HT in USNM. Type locality: USA: ID, Priest Lake, Kalispell Bay. DISTRIBUTION: ID, NS [Bissett (1987)].



- formosus** Van Duzee, 1921c: 42. HT in USNM. Type locality: USA: CA, Three Rivers.
- fortis** Aldrich, 1922a: 8. HT in USNM. Type locality: USA: AK, Healy. DISTRIBUTION: AK, NT, BC, AB [Steyskal (1973b); Vockeroth (personal commun.)].
- fraterculus** Zetterstedt, 1843: 510. HT in MZLU. Type locality: Sweden: Jemtlandia meridionali, Åsarne. DISTRIBUTION: AK, NT; Palearctic [Vockeroth (personal commun.)]. NEW RECORD.
- frontalis** Van Duzee, 1928b: 40. HT in CNC. Type locality: CAN: SK, Yankee Bend. DISTRIBUTION: AK, SK.
- fucatus** Van Duzee, 1921c: 113. HT in USNM. Type locality: USA: WA, Orcas Is., Mt. Constitution.
- fulgerus** Harmston, 1966a: 14. HT in USNM. Type locality: CAN: BC, Muncho Lake, Alas-ka Highway, Mile Post 455.
- fulvipes** Loew, 1862: 212 (Cent. 2, no. 61). ST in MCZ. Type locality: USA: IL. DISTRIBUTION: AB to QC and NS, s. to IL and NJ [Beaulieu & Wheeler (2001)].
- fumosus** Van Duzee, 1921c: 74. HT in USNM. Type locality: CAN: SK, S Sask., Farwell Creek.
- funditor** Loew, 1861a: 22. ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: ON to NY, s. to LA and GA (IN, KY, TN, MS, PA, NJ, MD, VA, NC, SC) [Robinson (1964); Vockeroth (personal commun.)].  
*frauditor*; error listed by Foote et al. (1965).
- gaigei** Steyskal, 1973b: 354. HT in UMMZ. Type locality: USA: WA, Mason Co., Cushman. DISTRIBUTION: WA, NB, NS [Bissett (1987)].
- genualis** Van Duzee, 1921c: 119. HT in MCZ. Type locality: USA: ME, Moosehead. DISTRIBUTION: ON, QC, ME, NS, NF [Bissett (1987)].
- gladius** Van Duzee, 1921c: 136; as *socius* variety. HT in USNM. Type locality: CAN: ON, Toronto. DISTRIBUTION: AK, ON to NS, s. to MT, NE, MI, and NY [Harmston & Rapp (1983)].
- grandis** Aldrich, 1893a: 21. ST in SEMC (2), USNM (1). Type locality: USA: CA. DISTRIBUTION: WA, OR, CA, NV, CO.
- gratiolus** Steyskal, 1973b: 357. HT in ?USNM. Type locality: USA: MA, Petersham. DISTRIBUTION: TN, NY, NH, MA, CT, VA, NC, SC.
- gratus** Loew, 1861a: 11. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: NE and WI to QC, s. to GA (ON, MI, IL, TN, IN, OH, PA, NY, NH, MA, CT, NJ, DE, MD, VA, NC) [Steyskal (1973b); Harmston & Rapp (1983)].
- groenlandicus** Zetterstedt, 1843: 528. HT in MZLU. Type locality: Greenland. DISTRIBUTION: AK, NT, BC, CO, NF (Labrador), Greenland [Vockeroth (personal commun.)].
- harbecki** Van Duzee, 1921c: 233. HT in USNM. Type locality: USA: PA, Roxborough. DISTRIBUTION: QC and ME to TN and GA (NY, PA, VT, NH, NS, MA, VA, NC, SC) [Robinson (1964); Bissett (1987); Vockeroth (personal commun.)].
- hardyi** Harmston, 1951b: 105. HT in ?SEMC. Type locality: USA: AZ, Chiricahua Mts., Rus-tler's Park. DISTRIBUTION: AZ, NM.
- hastatus** Loew, 1864b: 59. ST in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK, BC, to CA [Vockeroth (personal commun.)].
- helenae** James, 1939: 220. HT in ANSP. Type locality: USA: CO, Rocky Mountain National Park, Trail Ridge Road, 12,200 ft.
- hirsutitarsis** Harmston, 1952: 281. HT in USNM. Type locality: USA: CA, Klamath River, nr Mouth.
- humilis** Van Duzee, 1921c: 108. HT in the USNM. Type locality: USA: AK-YT boundary, longitude 141°; latitude 69°20'. DISTRIBUTION: AK, YT, NT; Greenland [Vockeroth (personal commun.)].
- idahoensis** (Aldrich), 1894: 154 (*Hygroceleu-thus*). ST in USNM (10), SEMC (3). Type locality: USA: ID, Moscow. DISTRIBUTION: OR, CA, NV, UT, CO, SD [Knowlton & Harmston (1937); Vockeroth (personal commun.)].
- idoneus** Van Duzee, 1921c: 140. HT in USNM. Type locality: USA: NY, East Aurora. DISTRIBUTION: QC, NY, VT [Vockeroth (personal commun.)].
- imperfectus** Van Duzee, 1921c: 240. HT in USNM. Type locality: USA: IL, Calumet.
- incisuralis** Loew, 1861a: 25. ST in MCZ, CNC (2). Type locality: USA: NY. DISTRIBUTION: NT to NH, s. to GA (ON, IN, TN, QC, NY, NJ) [Robinson (1964)].
- platyprosopus* Loew, 1866b: 44 (Cent. 7, no. 80). HT in MCZ. Type locality: CAN: NT, "Hudson's Bay Territory".
- incongruus** Wheeler, 1890: 338. HT in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: WI, ON, NH, s. to TN and NC [Vockeroth (personal commun.)].
- indianus** Harmston & Knowlton, 1946a: 672. HT in ?USNM. Type locality: USA: IN, Indianapolis.
- indigenus** Van Duzee, 1921c: 139. HT in USNM. Type locality: USA: ID, Priest Lake. DISTRIBUTION: BC, WA, ID, and MB to QC and NS, s. to MN and IA [Beaulieu & Wheeler (2001); Vockeroth (personal commun.)].
- inflatus** Aldrich, 1922a: 11. HT in USNM. Type locality: USA: AK, Anchorage.
- integripes** Parent, 1929a: 174. HT in MLUH. Type locality: CAN: BC.
- intentus** Melander & Brues, 1900: 137. HT in AMNH. Type locality: USA: IL, Chicago.

- interjectus** Van Duzee, 1923d: 70. HT in USNM. Type locality: USA: MT, Powell Co.
- iowaensis** Harmston & Knowlton, 1939c: 84. HT in USNM. Type locality: USA: IA, Dickinson Co.
- ivanovi** Stackelberg, 1929: 170. HT in ZIN. Type locality: Russia: Sakhalinskaya oblast, Katshikatskij Nasleg, about 100 km from Jakutsk. DISTRIBUTION: AK; Palearctic [Negrobov (1991)].
- jaquesi** Harmston & Knowlton, 1939d: 87. HT in USNM. Type locality: USA: IA, Mt. Pleasant.
- johnsoni** Aldrich, 1893a: 7. HT in USNM. Type locality: USA: NJ, Jamesberg. DISTRIBUTION: IN to NH and NS, s. to MD and NC [Bissett (1987); Vockeroth (personal commun.)].
- jugalis** Tucker, 1911: 106. HT in ?[not in SEMC according to Byers et al. (1962)]. Type locality: USA: CO, Tabernash, westernside of continental divide of Rocky Mts., 89 mi W. Denver, 8310 ft. DISTRIBUTION: WA to MB, s. to UT and NE [Harmston & Rapp (1983)].
- procerus** Van Duzee, 1921c: 209. HT in USNM. Type locality: USA: CO.
- kansensis** Aldrich, 1893a: 8. HT in SEMC. Type locality: USA: KS.
- kleini** Curran in Van Duzee & Curran, 1934a: 25. HT in AMNH. Type locality: USA: NJ, Baleville. DISTRIBUTION: MN, OH, NJ, WV, VA.
- kyphotus** Harmston, 1966a: 15. HT in USNM. Type locality: USA: AK, Matanuska Valley.
- laciniatus** Coquillett, 1910b: 42. HT in USNM. Type locality: USA: PA, Roxborough. DISTRIBUTION: ON, NY, and PA, s. to IA, TN, WV, and NC [Robinson (1964); Vockeroth (personal commun.)].
- lamellicornis** Thomson, 1869: 511. LT designated by Bickel (1998a: 61) in NHRS. Type locality: USA: CA (probably nr San Francisco). DISTRIBUTION: WA and UT to WY and NE, s. to CA and NM [Knowlton & Harmston (1937); Harmston & Rapp (1983)].
- afflictus** (Osten Sacken), 1877: 313 (*Hygroceleuthus*); synonymized by Bickel (1998a). HT in MCZ. Type locality: USA: CA, Marin Co., San Rafael, adjoining San Francisco Bay.
- lamellipes** Walker, 1848–1849: 660. ST in BMNH. Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls. DISTRIBUTION: AK, YT, NT, MB to QC and NF (Labrador); ?Palearctic, European record probably a different species (Dyte, personal commun.) [Vockeroth (personal commun.)].
- boreus** Van Duzee, 1921c: 204. HT in USNM. Type locality: CAN: NF, Labrador, Ungava Bay.
- laticornis** Loew, 1861a: 12. HT in MCZ. Type locality: USA: CT. DISTRIBUTION: WY to QC, s. to FL (ON, MI, MA, CT) [Robinson (1964)].
- latipennis** Fallén, 1823: 8. ST in NHRS. Type locality: Sweden: "Paroeciae Farhult Scaniae". DISTRIBUTION: NT, QC; Palearctic [Vockeroth (personal commun.)]. NEW RECORD.
- latipes** (Loew), 1861a: 5 (*Hygroceleuthus*). ST in MCZ. Type locality: USA: IL, North Red River. DISTRIBUTION: BC and WA to QC, s. to WY, IA, and MA (ID, MT, ND, SD, NE, MN, WI, IL, ON, NY, NH, CT) [Robinson (1964); Harmston & Rapp (1983)].
- cognatus** (Melander & Brues), 1900: 129 (*Hygroceleuthus*); listed as a variety by Foote et al. (1965). ST in AMNH (2). Type localities: USA: IL, Pullman; MA, Woods Hole.
- latronis** Van Duzee, 1921c: 232. HT in MCZ. Type locality: CAN: NF, Labrador, Hopedale.
- leucacra** James, 1939: 225. HT in ANSP. Type locality: USA: CO, Pingree Park. DISTRIBUTION: CO, ON [Vockeroth (personal commun.)].
- litoralis** Van Duzee, 1921c: 82. HT in ?USNM. Type locality: USA: WA, Tacoma. DISTRIBUTION: AK, BC, WA [Vockeroth (personal commun.)].
- lobatus** Loew, 1861a: 24. HT in MCZ. Type locality: CAN: ON, English River. DISTRIBUTION: AK, BC, AB, SK, MB, ON, QC, and NS, s. to WA, ID, UT, and NJ (CO, NE, SD, WI, IA, IN, IL, MI) [Knowlton & Harmston (1937); Robinson (1964); Harmston & Rapp (1983); Bissett (1987); Vockeroth (personal commun.)].
- longicornis** Stannius, 1831: 53. ST in ?ZMHB. Type locality: Germany: ?Hamburg, ?Breslau. DISTRIBUTION: AK, YT; Palearctic [Vockeroth (personal commun.)].
- acuticornis* authors, not Wiedemann.
- longimanus** Loew, 1861a: 14. ST in MCZ. Type locality: CAN: ON, English River. DISTRIBUTION: AK, BC to NH, s. to CO and VA.
- longipennis** Loew, 1861a: 21. ST in MCZ, CNC (1). Type locality: USA: IL, Chicago. DISTRIBUTION: BC to QC, s. to UT and FL (NE, KS, IA, MO, IL, TN, ON, MI, IN, OH, WV, PA, NY, NJ, MD, DC, VA, NC, SC) [Robinson (1964); Harmston & Rapp (1983)].
- longus** Aldrich, 1922a: 13. HT in USNM. Type locality: USA: CO, Tennessee Pass. DISTRIBUTION: CO, WY.
- lundbecki** Curran, 1923e: 236. HT in CNC. Type locality: CAN: ON, Ottawa.
- luteipennis** Loew, 1861a: 18. ST in MCZ. Type locality: USA: DC, Washington. DISTRIBUTION: BC to MI, ON, and QC, s. to VA (SD, IL, DC) [Robinson (1964); Vockeroth (personal commun.)].

- greeni* Van Duzee, 1921c: 192; synonymized by Foote et al. (1965). HT in USNM. Type locality: USA: VA, Chain Bridge.
- maculipennis** Zetterstedt, 1843: 520. ST in MZLU. Type localities: Norway: "Nordlandiae Norvegicae, ad Björkvik, Hacksten, Schiervö, Giebostad"; Sweden: "Scandinaviae septentrionalis, Jämtlandia boreali ad Skalstugan". DISTRIBUTION: AK; Palearctic [Vockeroth (personal commun.)]. NEW RECORD.
- maculitarsis** Van Duzee, 1925e: 184. HT in CNC. Type locality: CAN: MB, Baldur. DISTRIBUTION: NT, AB, SK, MB, WY, CO [Vockeroth (personal commun.)].
- magnantenna** James, 1939: 222. HT in ANSP. Type locality: USA: CO, Fairplay. DISTRIBUTION: CO, MT.
- manicula** Van Duzee, 1921c: 56. HT in USNM. Type locality: USA: CO, Marshall Pass, 10,856 ft. DISTRIBUTION: AK, BC, and AB to NM.
- mannerheimi** Zetterstedt, 1838: 707. ST in MZLU. Type localities: Sweden: "Lapponia Umensi, Stensele; Tresunda; Naestansjo; in paroecia Wilhelmina (= Vilhelmina); Lapponia meridionalis". DISTRIBUTION: AK, YT; Palearctic [Vockeroth (personal commun.)].
- marginatus** Aldrich, 1893a: 17. ST in SEMC (4), USNM (2), NYSM (2). Type locality: USA: CT. DISTRIBUTION: MB to NB and NS, s. to FL (NY, MA, CT, MD, NC) [Robinson (1964); Vockeroth (personal commun.)].
- melanderi** Van Duzee, 1921c: 70. HT in ?USNM. Type locality: USA: WA, Kennewick. DISTRIBUTION: BC, WA, NV, UT, WY, CO.
- melanocerus** Loew, 1864a: 93 (Cent. 5, no. 86). ST in MCZ. Type locality: CAN. DISTRIBUTION: ON, MI, NY, QC, NB, NS, NE, CT [Bissett (1987); Vockeroth (personal commun.)].
- mercieri** Parent, 1929a: 175; removed from synonymy with *Dolichopus gratus* Loew by Steyskal (1973b). HT in MLUH. Type locality: USA: GA. DISTRIBUTION: NY, NJ, VA, GA, MS [Steyskal (1973b); Vockeroth (personal commun.)].
- monarchus** Harmston, 1968: 13. HT in CAS. Type locality: CAN: NT, Aklavik. DISTRIBUTION: AK, YT, NT [Vockeroth (personal commun.)].
- monticola** Van Duzee, 1921c: 40. HT in USNM. Type locality: USA: WA, Mt. Constitution. DISTRIBUTION: WA, BC [Vockeroth (personal commun.)].
- multisetosus** Van Duzee, 1921c: 49. HT in USNM. Type locality: USA: CA, Tahoe, Grass Lake. DISTRIBUTION: BC, CA, UT, CO, ?ME.
- myosotus** Osten Sacken, 1887: 213. HT in BMNH. Type locality: MEX: Northern Sonora. DISTRIBUTION: BC to IA, s. to MEX, ?NJ.
- neomexicanus** Harmston, 1951b: 104. HT in SEMC. Type locality: USA: NM, Cloudcroft. DISTRIBUTION: NM; MEX [Vockeroth (personal commun.)].
- nigricauda** Van Duzee, 1921c: 46. HT in USNM. Type locality: USA: CO. DISTRIBUTION: NT, BC, AB, SK, MB, s. to CA, CO, and NE [Harmston & Rapp (1983); Vockeroth (personal commun.)].
- nigricornis** Meigen, 1824: 82. ST in ?MNHN. Type locality: Europe. DISTRIBUTION: AK, BC to QC and NS, s. to CO and NY; Palearctic (W. Europe to Far East) [Beaulieu & Wheeler (2001)].
- discifer* Stannius, 1831: 57. ST in ?ZMHB. Type locality: Germany.
- tanypus* Loew, 1861a: 24. ST in MCZ. Type localities: CAN: MB, Red River; ON, English River.
- nigricoxa** Van Duzee, 1926f: 230. HT in CNC. Type locality: CAN: BC, Barkerville. DISTRIBUTION: BC, UT, CO.
- nigrilineatus** Van Duzee, 1924c: 248. HT in CNC. Type locality: CAN: AB, Nordegg. DISTRIBUTION: AB, MB, CO.
- nigrimanus** Van Duzee, 1921c: 45. HT in ?USNM. Type locality: USA: ID, Moscow Mountain. DISTRIBUTION: BC, ID, and NV to ON.
- nigropleurus** Harmston, 1966a: 1. HT in USNM. Type locality: USA: CO, Dillon.
- nodipennis** Van Duzee, 1921c: 102. HT in USNM. Type locality: USA: NY, East Aurora. DISTRIBUTION: ON and QC to WI, NY, and CT.
- nomadus** Harmston & Knowlton, 1942c: 18. HT in CNC. Type locality: CAN: AB, Cypress Hills.
- nubifer** Van Duzee, 1921c: 75. HT in USNM. Type locality: USA: NV, Wells. DISTRIBUTION: NV, ID, UT, NE, MB, MI, NS [Bissett (1987)].
- nudus** Loew, 1864b: 41. ST in MCZ. Type locality: CAN: NT, Fort Resolution. DISTRIBUTION: AK to NT, s. to AB and QC; Palearctic [Vockeroth (personal commun.)].
- obcordatus** Aldrich, 1893a: 14. ST in SEMC (4), USNM (2). Type localities: USA: CO, Manitou Park; WY. DISTRIBUTION: AK to AB, s. to CA, UT, NM, NE, and MI [Knowlton & Harmston (1937); Harmston & Rapp (1983)].
- obsoletus** Van Duzee, 1921c: 121. HT in USNM. Type locality: USA: NH, Franconia. DISTRIBUTION: ON, NH, ME, NF [Vockeroth (personal commun.)].
- occidentalis** Aldrich, 1893a: 19. ST in SEMC (2). Type locality: USA: WA. DISTRIBUTION: BC, WA, ID, OR, CA, MT, ?PEI.

- reticulus* Van Duzee, 1926f: 231; synonymized by Steyskal (1973a). HT in CAS. Type locality: USA: OR, Olney.
- omnivagus** Van Duzee, 1921c: 216. HT in ?USNM. Type locality: USA: NY, East Aurora. DISTRIBUTION: AK, AB to NS and ME, s. to MT and IA [Vockeroth (personal commun.)].
- opportunus** Van Duzee, 1921c: 107. HT in USNM. Type locality: USA: ID, Hagerman. DISTRIBUTION: ID, UT.
- oregonensis** Van Duzee, 1927a: 148. HT in CAS. Type locality: USA: OR, Klamath Lake, Eagle Ridge.
- orichalceus** Gosseries, 1988: 304; n. name for *Dolichopus vittatus* Loew. Type locality: USA: IL, Chicago. DISTRIBUTION: SD to QC, s. to KS and NJ (IA, ON, WI, IL, MI, IN, OH, WV, PA, NY) [Robinson (1964)].
- vittatus* Loew, 1861a: 20; preocc. by *Dolichopus vittatus* Wiedemann, 1819, now *Chrysosoma*. ST in MCZ. Type locality: USA: IL, Chicago.
- ornatipennis** Van Duzee, 1921c: 132. HT in MCZ. Type locality: USA: MA, Sharon; Bridgewater. DISTRIBUTION: NY to NS, s. to NC.
- ovatus** Loew, 1861a: 13. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: BC to QC and NS, s. to ID and NC (CO, NE, MB, SD, WI, IL, IA, ON, NY, MI), ?CA [Robinson (1964); Harmston & Rapp (1983); Bissett (1987); Vockeroth (personal commun.)].
- pachynemus** Loew, 1861a: 13. ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: MB to QC, s. to MT, NE, IA, and IL. [Harmston & Rapp (1983)].
- packardi** Van Duzee, 1921c: 83. HT in MCZ. Type locality: CAN: NF, Labrador, Strawberry Harbor. DISTRIBUTION: AB, ON, QC, NF (Labrador) [Vockeroth (personal commun.)].
- refulgens* Harmston & Knowlton, 1939b: 349; synonymized by Foote et al. (1965) after Harmston (in litt.). HT in CNC. Type locality: CAN: AB, Fawcett.
- palaesticus** Loew, 1864a: 92 (Cent. 5, no. 84). HT in MCZ. Type locality: USA: NH. DISTRIBUTION: ON and NH, s. to IL and NJ (MI, NY, NS) [Robinson (1964); Bissett (1987)].
- paluster** Melander & Brues, 1900: 136. ST in AMNH (10). Type locality: USA: CA, Monterey Co. DISTRIBUTION: YT, NT, BC, AB, OR, CA [Vockeroth (personal commun.)].
- pantomimus** Melander & Brues, 1900: 142. HT in AMNH. Type locality: USA: MA, New Bedford. DISTRIBUTION: ON to MA, s. to TN and NC (NY, MD, VA) [Robinson (1964)].
- partitus** Melander & Brues, 1900: 135. ST in AMNH (2). Type locality: USA: CO, North Park.
- parvicornis** Van Duzee, 1921c: 231. HT in USNM. Type locality: CAN: ON, Kearney. DISTRIBUTION: MN, ON.
- parvimanus** Van Duzee, 1933a: 16. HT in AMNH. Type locality: USA: CO, Regnier, at about 4500 ft.
- penicillatus** Van Duzee, 1921c: 227; n. name for *Dolichopus ciliatus* (Aldrich). Type localities: USA: WY; SD, Custer. DISTRIBUTION: BC to ME, s. to CA, UT, NE, and NY [Knowlton & Harmston (1937); Harmston & Rapp (1983)].
- ciliatus* (Aldrich), 1893a: 25 (*Hygroceleuthus*); preocc. by *Dolichopus ciliatus* Walker, 1848–1849. ST in USNM (2). Type localities: USA: WY; SD, Custer.
- pensus** Aldrich, 1922a: 8. HT in USNM. Type locality: USA: AK, Fairbanks.
- pernix** Melander & Brues, 1900: 141. HT in AMNH. Type locality: CAN: BC, Vancouver Is., Corfield. DISTRIBUTION: BC, WA, OR, AB, SK.
- perplexus** Van Duzee, 1923d: 71; n. name for *Dolichopus melanderi* Becker. Type localities: USA: WY, Natrona Co.; Little Wind River.
- misellus* Melander, 1900: 136; preocc. by *Dolichopus misellus* Boheman, 1852. ST in AMNH (3). Type localities: USA: WY, Natrona Co.; Little Wind River.
- melanderi* Becker, 1922a: 15; as *melandri*; n. name for *Dolichopus misellus* Melander, but preocc. by *Dolichopus melanderi* Van Duzee, 1921c. Type localities: USA: WY, Natrona Co.; Little Wind River.
- phyllocerus** Vockeroth, 1962: 502. HT in CNC. Type locality: USA: NC, Highlands, Ravenel Lake, 3800 ft. DISTRIBUTION: VA, NC.
- pilatus** Van Duzee, 1921c: 167. HT in MCZ. Type locality: CAN: NF, Labrador, Nain. DISTRIBUTION: YT, AB, NF [Vockeroth (personal commun.)].
- pingreensis** James, 1939: 223. HT in ANSP. Type locality: CO, Pingree Park.
- plumipes** (Scopoli), 1763: 334 (*Musca*). ST destroyed. Type locality: Slovenija: "carnioliae indigena". DISTRIBUTION: AK, NT, AB, ON, QC, NB, NS, NF and St-Pierre and Miquelon, s. to CA, UT, NE, AR, and MI (MT, WY, IA); Greenland; MEX, Palearctic (W. Europe to Far East, Mongolia) [Parent (1927); Knowlton & Harmston (1937); Harmston & Rapp (1983); Bissett (1987); Vockeroth (personal commun.)].
- pennitarsis* Fallén, 1823: 11. ST in NHRS. Type localities: Sweden: "Ostrogothia"; "Scania". [Negrobov (1991)].
- ciliatus* Walker, 1848–1849: 661. ST in BMNH. Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls.

- sequax* Walker, 1848–1849: 666. HT in BMNH. Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls.
- nigroapicalis* Van Duzee, 1930d: 125; synonymized by Harmston (1966a). HT in CAS. Type locality: USA: CO, Longs Peak Inn, 9000 ft.
- nigriapicalis*; error by Van Duzee & Curran (1934a: 15).
- plumitarsis** Fallén, 1823: 10. ST in MZLU [according to Van Duzee (1921c)], NHRS. Type locality: Sweden. DISTRIBUTION: AK, ON; Palearctic (W. Europe to Far East).
- pulmitarsis*; error listed by Foote et al. (1965).
- plumosus** Aldrich, 1893a: 18. ST in SEMC (2). Type locality: USA: WA. DISTRIBUTION: BC, WA, CA, NV, MT, AB [Vockeroth (personal commun.)].
- pollex** Osten Sacken, 1877: 314. ST in MCZ. Type locality: USA: CA, Sierra Nevada, Webber Lake. DISTRIBUTION: OR, CA, NV, ID, AB, MT, UT.
- porphyrops** Van Duzee, 1921c: 169. HT in USNM. Type locality: USA: NH, Center Harbor. DISTRIBUTION: ON to NS, s. to MI, NY, MA, and NH.
- praeustus** Loew, 1862: 212 (Cent. 2, no. 62). ST in MCZ. Type locality: USA: IL. DISTRIBUTION: MO, IL, IN, CT.
- puberiseta** Parent, 1934b: 268. HT in BMNH. Type locality: USA: VA, Arlington.
- pugil** Loew, 1866b: 43 (Cent. 7, no. 77). ST in MCZ. Type locality: CAN. DISTRIBUTION: ON to NS, s. to NJ (NY, NH, QC, NB, ME, MA) [Robinson (1964); Vockeroth (personal commun.)].
- henshawi* Wheeler, 1890: 340. ST in AMNH. Type locality: USA: MA.
- pulcher** Walker, 1852–1853: 215. ST in BMNH. Type locality: USA.
- pulchrimanus** (Bigot), 1888b: xxx (also 1890: 292) (*Spathichira*). ST in ?UMO. Type locality: North America, Rocky Mts. DISTRIBUTION: NE and WI to NY, s. to TX and LA (KS, MO, ON, IL, IN, MI, OH) [Robinson (1964); Harmston & Rapp (1983)].
- willistonii* Aldrich, 1893a: 22. ST in USNM (11), SEMC (4). Type locality: USA: KS, Douglas Co., Lawrence.
- quadrilamellatus** Loew, 1864a: 92 (Cent. 5, no. 83). ST in MCZ. Type locality: USA: NJ (as NY, error), Palisades [according to Loew (1864b) and Van Duzee (1921c)]. DISTRIBUTION: ON to CT, s. to TN and NC (OH, PA, NY, MA, NJ) [Robinson (1964)].
- ramifer** Loew, 1861a: 19. ST in MCZ. Type localities: CAN: MB, Lake Winnipeg [according to Loew (1864b)]; USA: NE. DISTRIBUTION: AK, WA to QC, s. to CA, TX, and VA (OR, ID, NV, MT, WY, UT, CO, MB, SD, NE, KS, OK, IA, ON, WI, IL, IN, MI, OH, NY, NJ, MD) [Robinson (1964)].
- recticosta** Aldrich, 1922a: 13. HT in USNM. Type locality: USA: FL.
- reflectus** Aldrich, 1893a: 12. HT in USNM. Type locality: USA: PA, Philadelphia. DISTRIBUTION: ON to QC, s. to KS and FL (NE, MI, OH, IN, IL, NY, PA, MD, NJ, DC, MO, TN, VA, NC, SC) [Robinson (1964); Harmston & Rapp (1983); Vockeroth (personal commun.)].
- remipes** Wahlberg, 1839: 13. HT in ?NHRS [according to Van Duzee 1921c]. Type locality: Sweden: Gusum. DISTRIBUTION: WA, AB, SK, MB, ON, QC, NS, and ME, s. to MT and WI; Palearctic (Scandinavia to Far East) [Bissett (1987); Vockeroth (personal commun.)].
- remotus** Walker, 1848–1849: 666. HT in BMNH. Type locality: North America. DISTRIBUTION: NY.
- uniculus* Van Duzee, 1921c: 145. HT in USNM. Type locality: NY, Grand Is.
- remus** Van Duzee, 1921c: 96. HT in USNM. Type locality: USA: NY, Ithaca. DISTRIBUTION: IL, OH, ON, NY, VT, MN.
- renidescens** Melander & Brues, 1900: 143. ST in AMNH (3). Type locality: USA: CO, North Park, over 9000 ft. DISTRIBUTION: AK and BC to MB s. to CA, NE, and IA (ID, MT, UT, CO, SD, MN), ?ME [Harmston & Rapp (1983)].
- retinens** Van Duzee, 1921c: 90. HT in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: SD and NE to ON, s. to GA.
- ruficornis** Loew, 1861a: 21. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: KS to NY, s. to AR and VA (MI, IN, KY) [Robinson (1964); Vockeroth (personal commun.)].
- rupestris** Haliday, 1833: 164. ST in ?NMID. Type locality: England: Downshire, Tullymore Park and Mountains of Mourne. DISTRIBUTION: AK, YT; Palearctic [Vockeroth (personal commun.)].
- festinans* Zetterstedt, 1838: 708. ST in MZLU. Type localities: Sweden: "Lapponia Umensi, Stensele; Åsele; Fredrica; Lycksele; Lapponia meridionalis".
- sagittarius** Loew, 1848: 330. HT in ?ZMHB. Type locality: Russia: Siberia. DISTRIBUTION: AK, NT; Palearctic [Vockeroth (personal commun.)]. NEW RECORD.
- sarotes** Loew, 1866b: 44 (Cent. 7, no. 81). ST in MCZ. Type locality: USA: IL. DISTRIBUTION: KS to ON, QC, and MA (IA, WI, IL, IN, NJ) [Robinson (1964); Vockeroth (personal commun.)].
- sorotes*; error listed by Foote et al. (1965).
- scapularis** Loew, 1861a: 22. ST in MCZ. Type

- locality: USA: IL. DISTRIBUTION: ON to NH, s. to TX and GA (KS, IA, MO, LA, TN, WI, IL, MI, IN, OH, PA, NY, NJ, DC, VA, NC, SC) [Robinson (1964)].
- alberecrus* Gunther, 1979: 1. HT in INHS. Type locality: USA: IL, Peoria Co., Jubilee Township, Jubilee State Park. NEW SYNONYMY.
- scopifer** James, 1939: 224. HT in ANSP. Type locality: USA: CO, Lindland.
- sedulus** Van Duzee, 1921c: 93. HT in USNM. Type locality: USA: ID, Moscow. DISTRIBUTION: NT, ID, NE, IN [Harmston & Rapp (1983)].
- separatus** Walker, 1848–1849: 665. HT in BMNH. Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls.
- serratus** Van Duzee, 1921c: 155. HT in USNM. Type locality: USA: ME, Mt. Katahdin, summit, 5215 ft. DISTRIBUTION: WI, MI, NY, ME, NF (Labrador).
- setifer** Loew, 1861a: 12. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: ON, QC, and NS, s. to NC (WI, MI, NY, VT, RI, NJ, DC) [Robinson (1964); Bissett (1987)].
- michiganus* Harmston & Knowlton, 1945: 78; synonymized by Foote et al. (1965) after Harmston (in litt.). HT in USNM. Type locality: USA: MI, Saginaw Co.
- setosus** Loew, 1862: 213 (Cent. 2, no. 63). HT in MCZ. Type locality: USA: MA. DISTRIBUTION: IA, ON to NB and NS, s. to NC (NY, MA), ?BC [Robinson (1964); Vockeroth (personal commun.)].
- sexarticulatus** Loew, 1864b: 62. ST in MCZ. Type locality: USA: DC. DISTRIBUTION: IL and MI to DC, s. to TX and SC (LA, TN, IN, OH, VA, NC) [Robinson (1964)].
- shastaensis** Harmston, 1966a: 5. HT in USNM. Type locality: USA: CA, Shasta Co., Cassel.
- shelfordi** Curran in Van Duzee & Curran, 1934a: 26. HT in AMNH. Type locality: CAN: MB, Hudson Bay Railroad, Mile 474. DISTRIBUTION: AK, MB [Vockeroth (personal commun.)].
- sicarius** Van Duzee, 1921c: 261. HT in USNM. Type locality: CAN: ON, Waubamic. DISTRIBUTION: ON, MI, QC, NS.
- silvicola** Harmston, 1951b: 106. HT in SEMC. Type locality: USA: NM, Cloudcroft. DISTRIBUTION: NM; MEX [Vockeroth (personal commun.)].
- simplicipes** Aldrich, 1922a: 9. HT in USNM. Type locality: USA: AK, Camp 327, Alsk Eng Comm.
- simulans** Van Duzee, 1926f: 231. HT in CNC. Type locality: CAN: MB, Glen Souris.
- sincerus** Melander, 1900: 136. HT in AMNH. Type locality: USA: WI, Price Co. DISTRIBUTION: OR, ID, WI to NS and NF, s. to NC (ON, QC, NY, VT, NH, ME, MA) [Vockeroth (personal commun.)].
- subdirectus* Van Duzee, 1921c: 118; listed as a variety by Foote et al. (1965). HT in USNM. Type locality: USA: MA, Woods Hole [Poole (1996)].
- sinularis** Harmston, 1966a: 8. HT in USNM. Type locality: USA: ND, Bismarck.
- slossonae** Van Duzee, 1921c: 235. HT in USNM. Type locality: USA: NH, Franconia. DISTRIBUTION: QC to TN and NC (NY, PA, VT, ME, NH) [Robinson (1964)].
- smithae** Harmston, 1966a: 12. HT in USNM. Type locality: USA: AK, Mt. McKinley National Park, Mile Post 29. DISTRIBUTION: AK, YT.
- soccatus** Walker, 1848–1849: 666. HT in BMNH. Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls.
- socius** Loew, 1862: 211 (Cent. 2, no. 60). ST in MCZ. Type locality: USA: IL. DISTRIBUTION: OR to QC and NS, s. to UT, NE, IA, IL, and NJ [Knowlton & Harmston (1937); Harmston & Rapp (1983)].
- solidus** Van Duzee, 1921c: 104. HT in USNM. Type locality: USA: AK-YT boundary, longitude 141°, latitude 69°10'. DISTRIBUTION: AK, CO.
- sordidatus** Van Duzee, 1921c: 41. HT in USNM. Type locality: USA: ID, Oxford.
- speciosus** Van Duzee, 1921c: 208. HT in USNM. Type locality: USA: NM, Las Vegas Range, top. DISTRIBUTION: AB, UT, CO, NM.
- sphaeristes** Brues, 1901: 44. HT in ?AMNH. Type locality: USA: TX, Austin. DISTRIBUTION: TX, TN.
- sporadicus** Harmston & Knowlton, 1942c: 17. HT in USNM. Type locality: USA: UT, Manila.
- squamicillatus** Harmston, 1966a: 2. HT in USNM. Type locality: USA: CO, Red Feather.
- squamosus** Van Duzee, 1921c: 43. HT in USNM. Type locality: USA: ID, Hagerman. DISTRIBUTION: OR, CA, NV, ID, UT, WY.
- stenhammari** Zetterstedt, 1843: 521; n. name for *Dolichopus annulipes* Zetterstedt. Type localities: Sweden: "Lapponia Umensi; Lycksele; Lapponia Dalekarlia". DISTRIBUTION: AK, YT, BC, ON to NF (Labrador), s. to NY; Palearctic (N. Europe to Far East) [Vockeroth (personal commun.)].
- annulipes* Zetterstedt, 1838: 710; preocc. by *Dolichopus annulipes* (Meigen, 1824), orig. in *Porphyrops*, now *Sympycnus*. ST in MZLU. Type localities: Sweden: "Lapponia Umensi; Lycksele; Lapponia Dalekarlia".
- steyskali** Robinson, 1964: 156. HT in USNM. Type locality: USA: TN, nr Knoxville, Uni-

- versity of Tennessee Farm. DISTRIBUTION: TN, MS [Vockeroth (personal commun.)].
- stricklandi** Harmston & Knowlton, 1939b: 350. HT in CNC. Type locality: CAN: AB, Gull Lake.
- subciliatus** Loew, 1864b: 42. ST in MCZ, destroyed [according to Van Duzee (1921c)]. Type locality: CAN: NT, Fort Resolution. DISTRIBUTION: NT, ON, NS.
- subcostatus** Van Duzee, 1930d: 124. HT in CAS. Type locality: USA: CA, Inyo Co., Big Pine. DISTRIBUTION: CA, UT [Knowlton & Harmston (1937)].
- subspina** Van Duzee, 1928b: 41. HT in CNC. Type locality: CAN: SK, Melfort.
- sufflavus** Van Duzee, 1921c: 213. HT in USNM. Type locality: USA: ID, Moscow. DISTRIBUTION: WA, ID, AB, MT, UT, CO, WY. *subflavus*; error listed by Foote et al. (1965).
- superbus** Van Duzee, 1921c: 287. HT in USNM. Type locality: USA: CA, Monterey Co.
- talus** Van Duzee, 1921c: 268. HT in USNM. Type locality: USA: CA, Los Angeles, Los Angeles River.
- tarsipictis** Harmston & Knowlton, 1963: 236. HT in USNM. Type locality: USA: OR, Baker.
- tener** Loew, 1861a: 17. HT in MCZ. Type locality: USA: IL, Chicago. DISTRIBUTION: WI, IL, ON, QC, NY.
- tenuimanus** Van Duzee, 1932a: 12. HT in AMNH. Type locality: USA: NC, Black Mts.
- tenuipes** Aldrich, 1894: 155. ST in USNM (7), SEMC (4), MCZ. Type locality: USA: ID, Moscow. DISTRIBUTION: BC and ID to WA and CA.
- terminalis** Loew, 1866b: 43 (Cent. 7, no. 78). ST in MCZ. Type locality: USA: NY, Geneseo. DISTRIBUTION: ON and QC, s. to WY and IA (NE, WI, NY), ?WA, ?DC [Harmston & Rapp (1983); Vockeroth (personal commun.)]. *germanus* Wheeler, 1890: 341; preocc. by *Dolichopus germanus* Wiedemann, 1817, now *Hercostomus*. ST in AMNH. Type locality: USA: WI, Milwaukee Co.
- terminatus** Walker, 1848–1849: 665. HT in BMNH. Type locality: North America.
- tetricus** Loew, 1864b: 33. ST in MCZ. Type locality: CAN: NT, Fort Resolution. DISTRIBUTION: NT, WY, QC.
- tonsus** Loew, 1861a: 16. ST in MCZ. Type locality: USA: DC, Washington. DISTRIBUTION: MI and IN to MA, s. to NC (NY, NJ, DC, VA) [Robinson (1964)].
- townsendi** Aldrich, 1922a: 15. HT in USNM. Type locality: USA: NM, White Mts., Rio Ruidoso, about 6500 ft. DISTRIBUTION: AZ, NM.
- trisetosus** Van Duzee, 1921c: 122. HT in USNM. Type locality: USA: MA, Beverly. DISTRIBUTION: ON to NB, NS, and NF, s. to NY and MA [Bissett (1987); Vockeroth (personal commun.)].
- uliginosus** Van Duzee, 1923d: 69. HT in CAS. Type locality: CAN: BC, Nanaimo, Biological Station.
- umbrosus** Van Duzee, 1921c: 100. HT in USNM. Type locality: USA: WI, Polk Co. DISTRIBUTION: WI, ON.
- utahensis** Harmston & Knowlton, 1943a: 101. HT in USNM. Type locality: USA: UT, Park City.
- uxorcula** Van Duzee, 1921c: 186. HT in USNM. Type locality: USA: AK, Fort Wrangle. DISTRIBUTION: AK, AB to MB, s. to CA.
- vanduzeei** Curran, 1923a: 285. HT in CNC. Type locality: CAN: AB, Banff [Sabrosky (1978)].
- variabilis** Loew, 1861a: 17. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: BC to NS, s. to WA, CO, and NC (ID, MT, WY, SD, NE, MN, IA, ON, IL, MI, TN, OH, PA, NY, QC, ME, NH, MA, NJ, VA) [Robinson (1964); Harmston & Rapp (1983)]. *gracilis* Aldrich, 1893a: 15; as sp.; listed as a variety by Foote et al. (1965). HT in USNM. Type locality: USA: PA, Philadelphia [Poole (1996)].
- annaclareii* Gunther, 1979: 1. HT in INHS. Type locality: USA: IL, Peoria Co., Limestone. NEW SYNONYMY.
- varipes** Coquillett, 1900: 425. HT in ?USNM. Type locality: USA: AK, Popof Is. DISTRIBUTION: AK, BC, s. to UT, CO, and NM [Vockeroth (personal commun.)].
- vegetus** Harmston, 1952: 283. HT in USNM. Type locality: USA: AK, Mt. McKinley National Park.
- vernae** Harmston & Knowlton, 1940b: 129. HT in USNM. Type locality: USA: UT, Woodruff. DISTRIBUTION: UT, WY.
- versutus** Van Duzee, 1921c: 253. HT in USNM. Type locality: CAN: ON, Ridgeway. DISTRIBUTION: ON and QC, s. to KS and VA (NE, IA, IN, NY, MA, MD) [Robinson (1964); Harmston & Rapp (1983)].
- vigilans** Aldrich, 1893a: 13. ST in SEMC (2). Type locality: USA: KS. DISTRIBUTION: ON to NB, s. to KS and OH (IN, NY, CT) [Robinson (1964)].
- virga** Coquillett, 1910b: 41. HT in USNM. Type locality: USA: NJ, Manahawkin. DISTRIBUTION: ON to NS and NF, s. to NJ (ME, MA) [Robinson (1964); Vockeroth (personal commun.)].
- virginiensis** Van Duzee, 1921c: 236. HT in USNM. Type locality: USA: VA, Great Falls. DISTRIBUTION: QC, NY, and NH to TN and GA (CT, WV, VA, NC, SC) [Robinson (1964); Vockeroth (personal commun.)].

- lobipennis* Van Duzee, 1930a: 3. HT in AMNH. Type locality: USA: CT, Avon, Avon Old Farms.
- viridis** Van Duzee, 1921c: 44. HT in USNM. Type locality: USA: ID, Oxford. DISTRIBUTION: BC, CA, ID, MT, UT, CO.
- walkeri** Van Duzee, 1921c: 207. HT in USNM. Type locality: USA: CO. DISTRIBUTION: UT, CO, NM, WY, MB [Knowlton & Harmston (1937)].
- wheelerii** (Melander & Brues), 1900: 126 (*Hydrocoleuthus*); possibly conspecific with *Dolichopus wahlbergi* Zetterstedt, 1843 (Dyte, personal commun.). HT in AMNH. Type locality: USA: MA, Woods Hole. DISTRIBUTION: MB to NS and NF, s. to MA [Vockeroth (personal commun.)].
- wheeleri*; error by Foote et al. (1965).
- xanthocnemus** Loew, 1864b: 31. ST in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK, BC, CO, ON, QC, NH.
- zygomus** Harmston, 1966a: 9. HT in USNM. Type locality: USA: AK, Taylor Highway, Mile Post 49, West Fork Dennisan River.
- Genus GYMNOPTERNUS Loew, 1857a**
- GYMNOPTERNUS** Loew, 1857a: 10. Type species: *Dolichopus cupreus* Fallén [Palearctic], designation by Coquillett, 1910c: 548. Listed as a subgenus (Pollet, 1990; Chandler, 1998) or synonym of *Hercostomus* (Dyte, 1975; Dyte & Smith, 1980; Negrobov, 1991; Poole, 1996).
- NOTES: *Gymnopternus* is almost exclusively Holarctic in distribution, with no species recorded from Mexico, and very few from Taiwan or southwest China. Although *Gymnopternus* is more diverse in the Nearctic, a large number of species from the eastern Palearctic, particularly Japan, remain to be described (Pollet, unpubl. data). In both the Palearctic and Nearctic, this genus reaches its highest species richness in humid forests. *Gymnopternus* has been variously treated as a subgenus or synonym of the polyphyletic genus *Hercostomus* (see references above); however, in contrast to *Hercostomus*, *Gymnopternus* appears to be monophyletic (Pollet, 1990).
- REFERENCES: Curran (1933; key); Robinson (1964; key, eastern U.S.).
- albiceps** Loew, 1861a: 30. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: ME to FL (NJ, NC) [Robinson (1964)].
- aldrichi** Robinson, 1964: 170. HT in USNM. Type locality: USA: GA, Tift Co., Tifton.
- anarmostus** (Melander), 1900: 139 (*Hercostomus*). HT in AMNH. Type locality: USA: IL, Chicago.
- anormostus*; error by Becker (1922a: 32).
- annulatus** Van Duzee, 1926e: 58. HT in CNC. Type locality: CAN: NS, Smith's Cove. DISTRIBUTION: MI, CT, VA, NC, NS [Robinson (1964)].
- annulipes** Robinson, 1964: 161. HT in USNM. Type locality: USA: TN, nr Knoxville, University of Tennessee Farm. DISTRIBUTION: MI, TN, FL.
- anomalocerus** Robinson, 1964: 169. HT in CNC. Type locality: USA: TN, Hamilton Co., East Ridge.
- barbatulus** Loew, 1861a: 29. ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: NE and IA to QC, s. to TN and NC (MI, IN, NY, NJ, VA) [Robinson (1964); Harmston & Rapp (1983)].
- brevipes** (Van Duzee), 1933a: 17 (*Hercostomus*). HT in AMNH. Type locality: USA: IA, Ames City. DISTRIBUTION: CO, IA.
- brunneifacies** (Robinson), 1960: 273 (*Hercostomus*); comb. by Foote et al. (1965). HT in ?USNM (Robinson collection). Type locality: USA: NY, Bronx, Bronx Park. DISTRIBUTION: TX, NY, WV, SC.
- californicus** Van Duzee, 1920: 48. HT in CAS. Type locality: USA: CA, Fresno Co., Huntington Lake, 7000 ft. DISTRIBUTION: OR, CA, ID, MT, UT, CO [Knowlton & Harmston (1937)].
- vanduzeei* Curran, 1930c: 287; synonymy not listed in Foote et al. (1965). HT in USNM. Type locality: USA: OR, Hood River [Curran (1933)].
- campicnemoides** Robinson, 1964: 168. HT in CNC. Type locality: USA: NC, Macon Co., Highlands, 3800 ft. DISTRIBUTION: TN, NY, VA, NC, SC.
- consanguineus** (Harmston), 1952: 287 (*Hercostomus*). HT in USNM. Type locality: USA: WA, Olympia.
- constrictus** Robinson, 1964: 167. HT in USNM. Type locality: USA: TN, Sevier Co., nr Gatlinburg, ca. 4000 ft. DISTRIBUTION: NY, PA, VT, NH, ME, VA, TN, NC, GA, FL.
- coxalis** Loew, 1864a: 94 (Cent. 5, no. 87). ST in MCZ. Type locality: USA: NY. DISTRIBUTION: NY, NH.
- crassicauda** Loew, 1861a: 35. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: NE and IA to QC and NS, s. to KS and GA (ON, OH, NY, NJ, VA, NC, SC) [Robinson (1964); Harmston & Rapp (1983)].
- cumberlandensis** Robinson, 1964: 169. HT in



- USNM. Type locality: USA: TN, Fentress Co., nr Jamestown. DISTRIBUTION: TN, GA, NC.
- cuneicornis** Robinson, 1964: 171. HT in CNC. Type locality: USA: GA, Rabun Co., Rabun Bald, 4200 ft. DISTRIBUTION: GA, NC, NY, PA.
- currani** (Van Duzee), 1930a: 4 (*Hercostomus*). HT in AMNH. Type locality: USA: CT, Avon, Avon Old Farms. DISTRIBUTION: NY, PA, VA, CT, NH, NS [Bissett (1987)].
- debilis** Loew, 1861a: 35. ST in MCZ. Type locality: USA: PA. DISTRIBUTION: MN, IA, WI, MI, ON, ME to FL (TX, TN, IN, OH, NY, PA, NJ, MA, DC, VA, NC, SC, GA) [Robinson (1964); Vockeroth (personal commun.)].
- despicatus** Loew, 1861a: 33. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: QC and ME to NY and PA [Robinson (1964)].
- difficilis** Loew, 1861a: 33. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: ON to NS, s. to FL (IA, TN, NY, NJ, NC, SC, GA) [Robinson (1964)].
- exilis** Loew, 1861a: 30. ST in MCZ. Type locality: USA: PA. DISTRIBUTION: IN to NH, s. to FL (TX, NY, PA, ME, MA, CT, NJ, MD, VA, NC, GA) [Vockeroth (personal commun.)].
- fimbriatus** Loew, 1861a: 32. HT in MCZ. Type locality: USA: MD. DISTRIBUTION: QC to GA.
- flaviciliatus** Van Duzee, 1914b: 404. ST in CUIC, CAS. Type locality: USA: GA, Decatur Co., Spring Creek.
- flavitaris** (Van Duzee), 1925e: 187 (*Hercostomus*). HT in CUIC. Type locality: USA: NY, Gloversville.
- flaviventris** Robinson, 1964: 163. HT in CNC. Type locality: USA: FL, Manatee Co., Oneco.
- flavus** Loew, 1861a: 28. ST in MCZ, CNC (1). Type locality: USA: PA. DISTRIBUTION: ON and QC to GA (TN, IN, NY, PA, CT, NJ, MD, VA, NC, SC) [Robinson (1964)].
- floridensis** Robinson, 1964: 176. HT in USNM. Type locality: USA: FL, nr Gainesville, across from Glen Springs, property of H.V. Weems, Jr.
- frequens** Loew, 1861a: 32. ST in MCZ, CNC (1). Type locality: USA: NY. DISTRIBUTION: ON to NS, s. to IA and GA (MI, TN, QC, NY, CT, NJ, VA, NC, SC) [Robinson (1964); Bissett (1987)].
- humilis** Loew, 1864b: 336. ST in MCZ, CNC (1). Type localities: USA: IL; NY. DISTRIBUTION: KS, NE, and MI to QC and NS, s. to NC (IL, ON, NY, VT, NJ) [Robinson (1964); Harmston & Rapp (1983); Bissett (1987)].  
*humeralis*; error by Criddle (1921: 85).
- hybridus** Robinson, 1964: 164. HT in CNC. Type locality: USA: TN, Hamilton Co., East Ridge.
- lacustris** Bickel, 1995a: 169; fossil, Florissant Beds, Eocene/Oligocene. HT in USNM. Type locality: USA: CO, N of Florissant Fossil Beds National Monument, along Grape Creek.
- laevigatus** Loew, 1861a: 31. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: ME to GA (TN, NC) [Robinson (1964)].
- laffooni** Robinson, 1964: 166. HT in USNM. Type locality: USA: NC, Macon Co., Highlands, 35°3.2'N, 83°11.3W; 3850 ft. DISTRIBUTION: OH, TN, GA, NC.
- lividifrons** Van Duzee, 1926e: 58. HT in CNC. Type locality: CAN: ON, Point Pelee. DISTRIBUTION: ON, MI, QC, NY.
- lunifer** Loew, 1861a: 32. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: IL to QC, s. to TN and GA (NY, NJ, VA, NC) [Robinson (1964)].
- exiguus* Loew, 1864b: 337. HT in MCZ. Type locality: USA: IL.
- maculiventris** (Van Duzee), 1925e: 188 (*Hercostomus*). HT in CAS. Type locality: USA: NY, Long Is., Cold Spring Harbor.
- meniscoides** Robinson, 1964: 175. HT in USNM. Type locality: USA: GA, Union Co., Neels Gap.
- meniscus** Loew, 1864a: 94 (Cent. 5, no. 88). ST in MCZ. Type locality: USA: DC. DISTRIBUTION: IA to NY, s. to TN and SC (DC, VA, NC) [Robinson (1964)].
- minutus** Loew, 1861a: 35. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: IA.
- mirificus** Melander, 1900: 137. ST in AMNH (3). Type locality: USA: MA.
- nigribarbus** Loew, 1861a: 33. ST in MCZ. Type locality: USA: PA. DISTRIBUTION: MI to NS, s. to NJ (QC, NY, PA, NH) [Robinson (1964)].
- phyllophorus* Loew, 1866b: 45 (Cent. 7, no. 82). HT in MCZ. Type locality: USA: NY, Lake George.
- nigricornus** Robinson, 1964: 164. HT in USNM. Type locality: USA: GA, Rabun Co., Rabun Bald. DISTRIBUTION: TN, GA, NY, PA, NS, VA, NC.
- nigricoxa** Van Duzee, 1924a: 103. HT in CAS. Type locality: USA: NY, Long Is., Watchogue. DISTRIBUTION: NY, QC, MA.  
*nigricera*; error by Leonard (1928: 782).
- nigrifacies** (Van Duzee), 1933a: 19 (*Hercostomus*); transferred by Corpus (1989). ST in AMNH, CAS (2). Type locality: USA: OR, Newport.
- obscurus** (Say), 1823: 85 (also in LeConte, 1859: 75) (*Dolichopus*). ST destroyed. Type locality: USA: PA.
- obtusicauda** Van Duzee, 1924a: 103. HT in MCZ. Type locality: USA: ME, Machias. DISTRIBUTION: NY and ME to NS.
- ohioensis** Robinson, 1964: 163. HT in USNM.

- Type locality: USA: OH, about ½ mi E of Athens, nr the Hocking River.
- opacus** Loew, 1861a: 34. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: IA and MO to QC and ME, s. to GA (NY, PA, CT, VA, NC, TN) [Robinson (1964); Vockeroth (personal commun.)].
- ovaticornis** (Van Duzee), 1933a: 20 (*Hercostomus*). HT in AMNH. Type locality: USA: NJ, Great Piece Meadows.
- pallidiciliatus** (Van Duzee), 1930b: 85 (*Hercostomus*). HT in SEMC. Type locality: USA: MA, New Bedford, by Hough.
- parvicornis** Loew, 1861a: 34. ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: NY and MA to GA (NC, SC, TN) [Robinson (1964)].
- politus** Loew, 1861a: 34. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: MI and NY to TN and SC (CT, DC, NC) [Robinson (1964)].
- propriofacies** Robinson, 1964: 162. HT in CNC. Type locality: USA: SC, Greenwood Co., Kirksey. DISTRIBUTION: IN, OH, NY, CT, WV, VA, SC.
- pseudodebilis** Robinson, 1964: 171. HT in CNC. Type locality: USA: NC, Macon Co., Highlands. DISTRIBUTION: PA, MA, NJ, VA, NC.
- purpuratus** (Van Duzee), 1925e: 185 (*Hercostomus*). HT in CNC. Type locality: CAN: MB, Stockton. DISTRIBUTION: MB, QC, MI [as "*Gymnopternus* n.sp. 1" in Beaulieu & Wheeler (2001), identified by Pollet].
- purus** (Harmston & Knowlton), 1963: 237 (*Hercostomus*); transferred by Corpus (1989). HT in CAS. Type locality: USA: CA, Sacramento Co., Galt. DISTRIBUTION: WA, CA.
- pusillus** Loew, 1864b: 334. HT in MCZ. Type locality: USA: IL. DISTRIBUTION: IA, IL, TN.
- robustus** (Van Duzee), 1925e: 189 (*Hercostomus*). HT in CUIC. Type locality: USA: NY, Manlius.
- schlingeri** (Harmston & Knowlton), 1963: 237 (*Hercostomus*); transferred by Corpus (1989). HT in CAS. Type locality: USA: CA, Glendale.
- scotias** Loew, 1861a: 29. ST in MCZ. Type locality: CAN: ON, English River. DISTRIBUTION: MB to NS, s. to IA and NJ (QC, ON, NH) [Robinson (1964)].
- browni* (Van Duzee), 1933a: 18 (*Hercostomus*). HT in CNC. Type locality: CAN: QC, Bradore Bay.
- sharpi** Robinson, 1964: 175. HT in USNM. Type locality: USA: TN, Greene Co., E of Greenville. DISTRIBUTION: IN, OH, TN, VA, SC.
- singularis** Van Duzee, 1924a: 102. HT in MCZ. Type locality: USA: RI, Kingston.
- spectabilis** Loew, 1861a: 30. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: ON and QC to TX and GA (WI, TN, NY, DC, VA, NC, SC) [Robinson (1964)].
- chalcochrus* Loew, 1864b: 335. ST in MCZ. Type localities: USA: NY; DC.
- subdilatus** Loew, 1861a: 31. HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: QC, NS, ME to TN and GA (NY, CT, VA, NC) [Bissett (1987); Vockeroth (personal commun.)].
- subulatus** Loew, 1861a: 29. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: ON to NS, s. to NC (QC, NY, PA, CT, NJ) [Robinson (1964); Vockeroth (personal commun.)].
- tennesseensis** Robinson, 1964: 173. HT in USNM. Type locality: USA: TN, Unicoi Co., NW of Erwin, by State Route 81. DISTRIBUTION: TN, GA, VA, NC, SC.
- tenuicauda** Van Duzee, 1928d: 88. HT in USNM. Type locality: USA: NC, Raleigh.
- tibialis** Van Duzee, 1928d: 88. HT in USNM. Type locality: USA: NC, Raleigh. DISTRIBUTION: TN, VA, NC, SC [Robinson (1964)].
- tristis** Loew, 1864b: 83. ST in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK, BC, OR, QC, VT, MA.
- ventralis** Loew, 1861a: 36. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: ON and QC s. to NE and NC (TN, OH, NY, NJ, VA) [Robinson (1964); Harmston & Rapp (1983)].
- vernaculus** Van Duzee, 1924a: 104. HT in CAS. Type locality: USA: NY, Lancaster. DISTRIBUTION: NY, ME.
- vetitus** (Melander), 1900: 138 (*Hercostomus*). HT in AMNH. Type locality: USA: NJ, Clementon. DISTRIBUTION: NY, NJ.
- vestitus*; error listed by Foote et al. (1965).
- vetius*; error by Van Duzee (1925e: 187).
- violaceus** (Van Duzee), 1921b: 123 (*Proarchus*). HT in CAS. Type locality: USA: NY, Erie Co., Dayton. DISTRIBUTION: MI to QC and MA, s. to TN and SC (OH, NY, VA, NC) [Robinson (1964); Vockeroth (personal commun.)].
- vockerothi** Robinson, 1964: 172. HT in CNC. Type locality: USA: FL, Pinellas Co., Tarpon Springs. DISTRIBUTION: TX, IA, IN, TN, GA, FL, CT, VA, NC, SC.
- weemsi** Robinson, 1964: 173. HT in FSCA. Type locality: USA: FL, Clay Co., Gold Head Branch State Park.

### Genus HERCOSTOMUS Loew, 1857a

- HERCOSTOMUS** Loew, 1857a: 9. Type species: *Sybistroma longiventris* Loew [Palearctic], by original designation.
- DASYARTHURUS** Mik, 1878b: 5. Type species:

*Gymnopternus inornatus* Loew, by original designation.

**MICROHERCOSTOMUS** Stackelberg, 1949: 687 (as subgenus). Type species: *Hercostomus (Microhercostomus) dilatitarsis* Stackelberg, by original designation. Synonymized by Grichanov (1997a).

**AHERCOSTOMUS** Yang & Saigusa, 2001a: 239 (as subgenus). Type species: *Hercostomus (Ahercostomus) jiangchenganus* Yang & Saigusa, by original designation.

NOTES: *Hercostomus* is known from all realms; however, this genus is clearly polyphyletic and its limits should be redefined. It reaches its highest diversity in the Palearctic, especially in the southeast. Representatives are found in a wide variety of habitats, ranging from coastal dunes to humid forests and springs.

REFERENCES: Robinson (1964; key, eastern U.S.); Corpus (1989; rev.).

**albipodus** Harmston & Knowlton, 1941a: 131. HT in USNM. Type locality: USA: UT, Kanosh Canyon.

**aurifer** (Thomson), 1869: 512 (*Dolichopus*). ST in NHRS. Type locality: USA: CA. DISTRIBUTION: BC, OR, WA, CA; MEX.

*metatarsalis* (Thomson), 1869: 512 (*Dolichopus*); listed under *Gymnopternus* in Foote et al. (1965); synonymized by Corpus (1989). ST in NHRS. Type locality: USA: CA, Monterey Co., Cala.

*procerus* Wheeler, 1899: 8; listed under *Gymnopternus* in Foote et al. (1965). ST in AMNH, CNC (2). Type locality: USA: CA, along road from Monterey to Del Monte.

**cacheae** Harmston & Knowlton, 1941a: 131. HT in USNM. Type locality: USA: UT, Avon-Liberty road, approx. 5 mi S of Avon, extreme S end of Cache Valley. DISTRIBUTION: BC, WA, OR, CA, ID, UT, WY [Turner (1987); Corpus (1989)].

**chaetillamellus** Harmston & Knowlton, 1941a: 127. HT in SEMC. Type locality: USA: CA, Orange Co.

**chetifer** (Walker), 1848–1849: 653 (*Porphyrops*). HT in BMNH. Type locality: England. DISTRIBUTION: AB, ON, MI, TN, QC, PA, NY, CT, NJ, NC; Palearctic, Oriental [Robinson (1964); Dyte (1975); Corpus (1989)].

*cretifer*; error by Walker (1856: xii) [Dyte (1975); Chandler (1998)].

*alutifer* (Haliday), 1851: 179 (*Dolichopus*). HT in ?NMID. Type locality: England: Kent, nr Harrietsham [Dyte (1975); Negrobov (1991)].

*ornatus* (Van Duzee), 1921b: 128 (*Paraclius*);

synonymized by Robinson (1964). HT in CAS. Type locality: USA: NY, Erie Co., Williams-ville.

*ornatipes*; error by Curran (1925: 100).

*dreisbachi* Harmston & Knowlton, 1945: 80. HT in USNM. Type locality: USA: MI, Midland Co. [Robinson (1964)].

**coloradensis** Harmston, 1952: 286. HT in USNM. Type locality: USA: CO, Boulder. DISTRIBUTION: AZ, CO, NM [Corpus (1989)].

**costalis** Van Duzee, 1923d: 65. HT in CAS. Type locality: CAN: ON, Toronto. DISTRIBUTION: CA, MN, IA, WI, ON, MI, IN, OH, NY [Corpus (1989)].

**cryptus** Harmston & Knowlton, 1941a: 130. HT in USNM. Type locality: USA: UT, nr Manila, Sheep Creek. DISTRIBUTION: UT, WY, NE [Corpus (1989)].

**flutatus** Harmston & Knowlton, 1945: 79. HT in USNM. Type locality: USA: MI, Bay Co. DISTRIBUTION: MI, IN, TN, WV [Corpus (1989)].

**impudicus** Wheeler, 1899: 10. ST in ?AMNH. Type locality: USA: CA, Monterey. DISTRIBUTION: WA, CA [Corpus (1989)].

**longilamellus** Harmston & Knowlton, 1940f: 127. HT in USNM. Type locality: USA: UT, Kanosh Canyon. DISTRIBUTION: UT, MT.

**neocryptus** Harmston & Knowlton, 1941a: 130. HT in CNC. Type locality: CAN: AB, Lethbridge. DISTRIBUTION: NT, BC, AB, SK, WA, ID, MT, WY, CO, UT, NE [Harmston & Rapp (1983); Corpus (1989)].

**occidentalis** Cole, 1912: 839. HT in USNM. Type locality: USA: CA, Laguna Beach. DISTRIBUTION: CA, UT, AZ.

*flavicornis* (Van Duzee), 1918: 48 (*Paraclius*); synonymized by Corpus (1989). HT in SEMC. Type locality: USA: AZ, Bill Williams Fork.

*stanfordi* Harmston & Knowlton, 1940f: 126; synonymized by Corpus (1989). HT in USNM. Type locality: USA: UT, Cedar City.

**orbicularis** Harmston, 1952: 286. HT in USNM. Type locality: USA: CA, San Bernardino Mts., Mill Creek Canyon.

**setosus** (Van Duzee), 1913b: 54 (*Neurigona*). ST in USNM, ANSP. Type locality: USA: NM, Alamogordo. DISTRIBUTION: MT, UT, NM, CO, NE, IL [Harmston & Rapp (1983); Corpus (1989)].

*torridus* Harmston & Knowlton, 1941a: 129. HT in USNM. Type locality: USA: UT, Leeds.

**synolcus** Steyskal, 1966a: 169; n. name for *Gymnopternus convergens* Van Duzee. Type locality: USA: NV, Wells. DISTRIBUTION: OR, NV, UT, SK, SD [Steyskal (1966a); Corpus (1989); Vockeroth (personal commun.)].

*convergens* (Van Duzee), 1920: 49 (*Gymnopternus*); preocc. by *Gymnopternus convergens*

Loew, 1857a, now *Hercostomus* subg. *Hercostomus*. HT in CAS. Type locality: USA: NV, Wells.

**tibialis** (Van Duzee), 1913b: 55 (*Neurigona*). HT in CAS. Type locality: USA: NY, Erie Co., Lancaster. DISTRIBUTION: NE, IA, IL, IN, ON, QC, PA, NY, NH, NC, SC, TN [Corpus (1989); Vockeroth (personal commun.)].

*dorsalis* (Van Duzee), 1914c: 434 (*Neurigona*); synonymized by Corpus (1989), not mentioned as synonym under *H. tibialis* but listed in the abstract, intro (p. 214) and on p. 235. HT in CAS. Type locality: USA: NY, Erie Co., Elma. *indianus* Harmston, 1952: 285; synonymized by Corpus (1989). HT in USNM. Type locality: USA: IN, Lafayette.

**truncatus** Harmston & Knowlton, 1940f: 127. HT in USNM. Type locality: USA: UT, Kanosh Canyon. DISTRIBUTION: UT, NE [Harmston & Rapp (1983)].

**unicolor** Loew, 1864b: 117. ST in MCZ. Type locality: CAN: NT, Fort Resolution. DISTRIBUTION: AK, YT, NT, BC, WA, and AB to QC and ME, s. to CA, AZ, NM, and VA (OR, NV, ID, UT, MT, WY, CO, SK, MB, SD, MN, WI, MI, ON, NY, NH) [Robinson (1964); Corpus (1989)].

*poenitens* (Wheeler), 1890: 355 (*Gymnopternus*). HT in AMNH. Type locality: USA: WI, Milwaukee Co.

*ornaticauda* Van Duzee, 1933a: 16; synonymized by Robinson (1964). HT in AMNH. Type locality: USA: WA, Mt. Rainier, 6318 ft.

**utahensis** Harmston & Knowlton, 1940f: 125. HT in USNM. Type locality: USA: UT, Moab.

**wasatchensis** Harmston & Knowlton, 1943a: 103. HT in USNM. Type locality: USA: UT, Mt. Timpanogos. DISTRIBUTION: UT, SK, NE [Corpus (1989)].

### Genus **PARACLIUS** Loew, 1864b

**PARACLIUS** Loew, 1864b: 97. Type species: *Pelastoneurus arcuatus* Loew [Neotropical], designation by Coquillett, 1910c: 583. Erroneously treated as an emendation of *Paracleius* Bigot in Foote et al. (1965), see comments under *Pelastoneurus* Loew.

**LEPTOCORYPHA** Aldrich, 1896b: 315. Type species: *Leptocorypha pavo* Aldrich, by monotypy. Synonymized by Robinson (1970b).

**LEPTORHETHUM**, Parent, 1934a, not Aldrich, 1893b, misid. listed by Bickel & Dyte (1989).

NOTES: Species of *Paraclius* are known from every zoogeographical realm, but the genus is most diverse in the Neotropics. Nearctic species are found on moist soil or sand

or on low herbaceous foliage near water. Most Nearctic species are coastal (Robinson, 1964; Foote et al., 1965).

REFERENCES: Aldrich (1904; key); Robinson (1964; key, eastern North America).

**aberrans** Robinson, 1964: 180. HT in USNM. Type locality: USA: TX, Collin Co., Plano. DISTRIBUTION: TX; MEX.

**alternans** (Loew), 1864a: 95 (Cent. 5, no. 91) (*Pelastoneurus*). HT in MCZ. Type locality: USA: NY. DISTRIBUTION: ME to FL (MA, CT, NY, MD, NC), Bermuda [Robinson (1964); Woodley & Hilburn (1994)].

*vicinus* Aldrich, 1904: 277. ST in USNM (8). Type locality: USA: MA, New Bedford.

**claviculatus** Loew, 1866b: 45 (Cent. 7, no. 83). HT in MCZ. Type locality: USA: NY, New Rochelle. DISTRIBUTION: ON to NS, s. to NC (NY, MA); ?Neotropics [Robinson (1964, 1970b)].

*fraternus* Van Duzee, 1933a: 21. ST in AMNH, CAS (1). Type locality: USA: NY, Long Is., Cold Spring Harbor.

**consors** (Walker), 1852–1853: 213 (*Dolichopus*). HT in BMNH. Type locality: USA.

**filifer** Aldrich, 1896b: 314. ST in USNM (5), SEMC (4), CUIC. Type locality: St. Vincent Is. DISTRIBUTION: FL; MEX, Neotropics.

**flagellatus** (Harmston), 1952: 293 (*Hercostomus*); comb. by Foote et al. (1965). HT in USNM. Type locality: USA: AL, Mobile. DISTRIBUTION: ?AL (immigrant, found in hold of ship containing cargo of bananas from Panama); Neotropics [Robinson (1970b)].

**floridensis** Robinson, 1964: 181. HT in USNM. Type locality: USA: FL, nr Gainesville, across from Glen Springs, on property of H.V. Weems Jr.

**hybridus** Melander, 1900: 141. ST in AMNH (9). Type locality: USA: MA, Woods Hole. DISTRIBUTION: NY, ME, MA, CT, NC.

**magnicornis** Van Duzee, 1927a: 146. HT in CAS. Type locality: USA: ID, Lewiston.

**minutus** Van Duzee, 1921b: 127. HT in CAS. Type localities: USA: FL, Bradentown; Anna Maria Key.

**nigrocaudatus** Van Duzee, 1918: 47. HT in SEMC. Type locality: USA: MT, Beaver Creek, 6300 ft.

**ovatus** Van Duzee, 1914c: 436. HT in CUIC. Type locality: USA: GA, Decatur Co. DISTRIBUTION: MI to NY, s. to FL (IN, OH, MD, NC, SC, GA); ?Neotropics [Robinson (1964)].

**propinquus** Wheeler, 1899: 18. ST in AMNH. Type localities: USA: FL, Charlotte Harbor; Ormund. DISTRIBUTION: FL, MA; ?Neotropics [Robinson (1970b)].

**pumilio** Loew, 1872: 90 (Cent. 10, no. 63). ST in MCZ. Type locality: USA: TX. DISTRIBUTION: TX, NE, IA, MI, IN, TN, MD, VA; MEX [Robinson (1964); Harmston & Rapp (1983)].

**quadrinotatus** Aldrich, 1902: 81. ST in USNM (8). Type locality: Grenada Is. DISTRIBUTION: TX, FL; Neotropics.

### Genus PELASTONEURUS Loew, 1861a

**PARACLEIUS** Bigot, 1859: 215, 227. Type species: *Dolichopus heteronevrus* Macquart, by monotypy. Erroneously listed as a senior synonym of *Paraclius* Loew in Foote et al. (1965); see comments under *Paraclius* Loew.

**PELASTONEURUS** Loew, 1861a: 36. Type species: *Pelastoneurus vagans* Loew [Nearctic], designation by Coquillett, 1910c: 586. Application to the I.C.Z.N. has been made for the suppression of *Paraclius* Bigot (Brooks et al., 2002).

**METAPELASTONEURUS** Aldrich, 1894: 152. Type species: *Metapelastoneurus kansensis* Aldrich, by monotypy.

**PARACLIUS** Kertész, 1909: 230. Type species: *Dolichopus heteronevrus* Macquart, automatic. Unjustified emendation.

**PALASTONEURUS**, error by Parent (1933d: 249).

**PELASTRONEURUS**, error by Robinson (1964: 177).

NOTES: *Pelastoneurus* has been recorded from the Nearctic, Neotropical, Afrotropical, and Oriental realms, as well as the Hawaiian Islands. Most species have been described from the New World and many more await discovery, especially in the Neotropics. Species of *Pelastoneurus* are found in association with freshwater seepages and mudflats, and on wet soil or on low herbaceous vegetation near water. The immatures of *P. vagans* Loew inhabit mud substrates in various aquatic and semiaquatic habitats (Corpus, 1986a).

REFERENCES: Van Duzee (1923b, rev.); Robinson (1964; key, eastern U.S.).

**abbreviatus** Loew, 1864a: 94 (Cent. 5, no. 89). ST in MCZ. Type locality: USA: NY, New Rochelle. DISTRIBUTION: ON to NS, s. to TX and FL (IL, QC, NY, NC), ?MT [Robinson (1964)].

**aldrichi** Van Duzee, 1923b: 36. HT in USNM. Type locality: USA: UT, Brigham.

**angulatus** Robinson, 1964: 178. HT in USNM. Type locality: USA: NC, Beaufort, Duke University Marine Biological Station.

**asciaeformis** Becker, 1922a: 63. HT in ZMHB. Type locality: USA: GA.

**aurifacies** Van Duzee, 1923b: 35. HT in CAS. Type locality: USA: FL, Bradentown. DISTRIBUTION: AL, FL.

**minutus** Van Duzee, 1933a: 27. HT in AMNH. Type locality: USA: AL, Mobile Co., Baraland.

**barri** Harmston, 1972: 153. HT in CAS. Type locality: USA: CA, Inyo Co., Tecopa Hot Springs.

**bifrons** (Walker), 1852–1853: 212 (*Dolichopus*). ST in BMNH. Type locality: USA.

**brevis** Robinson, 1964: 179. HT in USNM. Type locality: USA: GA, Montgomery Co., Ailey. DISTRIBUTION: AL, GA, FL, NC.

**cognatus** Loew, 1861a: 40. HT in MCZ. Type locality: USA: “Middle States”. DISTRIBUTION: TX, IL, FL; MEX.

**comatus** Robinson, 1992: 576. HT in USNM. Type locality: USA: DC, Roosevelt Is. DISTRIBUTION: DC, NC [Robinson (personal commun.)]

**cyaneus** Wheeler, 1899: 17. ST in AMNH. Type localities: USA: CA, on road from Monterey to Del Monte; WY, Lusk. DISTRIBUTION: OR to SD, s. to CA (NV, AZ, NE); MEX [Robinson (1964); Harmston & Rapp (1983)].

**dissimilipes** Wheeler, 1899: 16. ST in AMNH. Type locality: USA: CA, Monterey. DISTRIBUTION: CA, AZ.

**nigrescens** Wheeler, 1899: 78, 80; alternate orig. spelling. Type locality: USA: CA, Monterey.

**floridanus** Wheeler, 1899: 13. ST in AMNH. Type locality: USA: FL, St. Augustine. DISTRIBUTION: TX, FL, NC; Neotropics [Robinson (1970b)].

**furcifer** Loew, 1872: 91 (Cent. 10, no. 64). ST in MCZ. Type locality: USA: TX.

**hebes** (Walker), 1852–1853: 213 (*Dolichopus*). HT in BMNH. Type locality: USA.

**heteronevrus** (Macquart), 1850: 432 (1850: 128) (*Dolichopus*). HT in ?MNHN. Type locality: North America (listed under *Paraclius* by Foote et al. (1965)).

*heteroneurus*; error or unjustified emendation listed by Kertész (1909) and Van Duzee (1923b).

*heteropterus*; error listed by Foote et al. (1965).

**ineptus** (Walker), 1852–1853: 214 (*Dolichopus*). HT in BMNH. Type locality: USA.

**irrasus** (Walker), 1848–1849: 667 (*Dolichopus*). HT in BMNH. Type locality: USA: FL. DISTRIBUTION: FL; ?Neotropics [Robinson (1970b)].

**kansensis** (Aldrich), 1894: 153 (*Metapelastoneurus*). ST in SEMC (2). Type locality: USA: KS. DISTRIBUTION: SD, NE, KS, IL, MI, IN [Harmston & Rapp (1983)].

**laetus** Loew, 1861a: 38. ST in MCZ. Type local-

- ity: USA: GA. DISTRIBUTION: NE and MI to QC, s. to LA and FL (IN, OH, NY, MD, DC, VA, NC, GA) [Robinson (1964); Harmston & Rapp (1983)].
- falcatus* Aldrich, 1904: 277. ST in USNM (3). Type locality: CAN: QC, Montreal Is.
- ramosus* Van Duzee, 1923b: 33. HT in CAS. Type locality: USA: VA, Chesterfield Co., Petersburg.
- lamellatus** Loew, 1864a: 95 (Cent. 5, no. 90). HT in MCZ. Type locality: USA: NY. DISTRIBUTION: IA to ME, s. to TX, MS, and FL (NY, NH, MA, NJ, MD, NC) [Robinson (1964)].
- cristatus* Van Duzee, 1924a: 105. HT in MCZ. Type locality: USA: MA, Eastham.
- latifacies** Van Duzee, 1930d: 123. HT in CAS. Type locality: USA: CA, Lake Co., Clear Lake, Konocti Bay.
- longicauda** Loew, 1861a: 37. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: ?CA, NY, NC, FL.
- quadrincta* Van Duzee, 1928d: 89. HT in USNM. Type locality: USA: NC, Willard.
- lugubris** Loew, 1861a: 38. HT in MCZ. Type locality: USA: NY, Trenton Falls. DISTRIBUTION: QC, MI, VT to TX, LA, and FL (IL, IN, NY, MA); MEX, Hawaiian Is. [Robinson (1964); Evenhuis (1996); Beaulieu & Wheeler (2001)].
- maculipes** (Walker), 1852–1853: 214 (*Dolichopus*). HT in BMNH. Type locality: USA.
- neglectus** Wheeler, 1899: 12. ST in AMNH. Type localities: USA: WI, Milwaukee; IL, Chicago. DISTRIBUTION: WI to NH, s. to LA and GA (TX, MO, IL, TN, IN, MI, NY, VA, SC) [Robinson (1964)].
- nigricornis** Van Duzee, 1923b: 39. HT in USNM. Type locality: USA: MO, Atherton. DISTRIBUTION: TX, LA, MO, TN.
- penicillatus* Parent, 1929a: 181. HT in MLUH. Type locality: USA: TX.
- occidentalis** Wheeler, 1899: 13. ST in AMNH. Type locality: USA: CA, Pacific Grove. DISTRIBUTION: CA, OR, ?VA.
- parvus** Aldrich, 1904: 276. HT in USNM. Type locality: USA: LA, Opelousas. DISTRIBUTION: LA, GA, FL.
- potomacus** Robinson, 1992: 578. HT in USNM. Type locality: USA: DC, Roosevelt Is.
- proximus** Aldrich, 1904: 278. ST in CNC (1). Type locality: USA: LA, Opelousas. DISTRIBUTION: TX, LA, TN, IN, MI, NC.
- arboreus* Van Duzee, 1923b: 34. HT in USNM. Type locality: USA: IN, Lafayette.
- scutatus** Aldrich, 1904: 276. HT in USNM. Type locality: FL, Biscayne Bay.
- semiplumatus** Becker, 1922a: 69. HT in DEI. Type locality: America. Possibly not Nearctic.
- seticauda** Van Duzee, 1930b: 85. HT in SEMC. Type locality: USA: MO, Atherton. DISTRIBUTION: MO, TN.
- stentorius** Harmston, 1971: 88. HT in FSCA. Type locality: USA: GA, Oatland Is.
- taeniatus** Becker, 1922a: 70. HT in ZMHB. Type locality: Virgin Is.: St. Jean. DISTRIBUTION: FL; Neotropics (Dominica). NEW RECORD.
- tibialis** Van Duzee, 1923b: 41. ST in ?Type locality: USA: NM, Jemezsprings Mts. DISTRIBUTION: UT, NM [Knowlton & Harmston (1937)].
- umbripictus** Becker, 1922a: 73. ST in ?ZMHB. Type localities: USA: Carolina; Colombia: Baranquilla, Bogota. DISTRIBUTION: TX, MI, NC, FL; MEX, Neotropics [Robinson (1964)].
- vagans** Loew, 1861a: 39. ST in MCZ, CNC (1). Type locality: USA: “Middle States”. DISTRIBUTION: AK, OR, UT to QC, s. to NM, TX, and GA, Bermuda; MEX, ?Neotropics [Knowlton & Harmston (1937); Robinson (1964, 1970b); Woodley & Hilburn (1994)].
- vagrans*; error by Snodgrass (1904: 290).
- longilamellatus* Parent, 1929a: 180. ST in MLUH. Type localities: USA: TX; GA.
- varius** (Walker), 1852–1853: 215 (*Dolichopus*). HT in BMNH. Type locality: USA. DISTRIBUTION: GA, FL.
- pictipennis* Wheeler, 1899: 14. ST in AMNH. Type localities: USA: FL, St. Augustine; Gotha.
- punctipennis* (not Say); error by Parent (1929a: 170).
- wheelerii** Melander, 1900: 140. HT in ?AMNH. Type locality: USA: TX, along Colorado River S of Austin. DISTRIBUTION: CA, TX, MI, TN, NC, SC, GA.
- wheeleri*; error by Foote et al. (1965: 502).

### Genus TACHYTRECHUS Stannius, 1831

- AMMOBATES** Stannius, 1831: 33. Incorrect original spelling by revision of Haliday (1851: 173); preocc. by *Ammobates* Latreille, 1809.
- TACHYTRECHUS** Stannius, 1831: 261. Erroneously treated as nomen nudum by Sabrosky (1999: 297–298) and previous regional catalogs. Type species: *Ammobates notatus* Stannius, designation by Rondani, 1856: 143 from species first included by Stannius (1831: 268–270).
- HAMMOBATES**, subsequent misspelling by Rondani, 1856: 143.
- STANNIA** Rondani, 1857: 14. Type species: *Ammobates notatus* Stannius, automatic. Unnecessary n. name for *Ammobates* Stannius, 1831.
- GONGOPHORA** Philippi, 1875: 86. Type species: *Gongophora medinae* Philippi, by monotypy. Synonymized by Robinson (1970b).

*CONGOPHORA* Philippi, 1875: 86. Incorrect original spelling by present revision.  
*POLYMEDON* Osten Sacken, 1877: 317. Type species: *Polymedon flabellifer* Osten Sacken, by monotypy. Synonymized by Robinson (1970b).  
*MACELLOCERUS* Mik, 1878b: 5. Type species: *Tachytrechus moechus* Loew, by original designation.  
*PSILISCHIUM* Becker, 1922a: 93. Type species: *Psilischium laevigatum* Becker, by monotypy. Synonymized by Robinson (1970b).  
*TETRECHUS*, error by Van Duzee (1924d: 43).  
*GONGROPHORA*, subsequent misspelling by Porter (1929: 230), repeated by Robinson (1970b: 53).  
*TACHYTERECHUS*, error by Dyte (1975: 238).

NOTES: *Tachytrechus* is known from every realm; however, the Neotropics has the majority of the species. *Tachytrechus* species are hygrophilous and riparian, and mainly occur on open, well-lit, wet, sandy soils or rocky substrates near or in open water. Larval and pupal stages have been discovered along temporal pools (Dyte, 1959) and in freshet seeps and mud flats (Corpus, 1988).

REFERENCES: Greene (1922; key); Van Duzee (1927d; key, as *Polymedon*); Harmston & Knowlton (1940a; key to males); Robinson (1964; key, eastern U.S.).

**albonotatus** (Loew), 1864b: 102 (*Paraclius*). ST in ?MCZ. Type locality: USA: LA, New Orleans. DISTRIBUTION: UT to VT, s. to LA and FL; Neotropics.  
**angulatus** (Van Duzee), 1914c: 436 (*Paraclius*). HT in CAS. Type locality: USA: NY, Erie Co., Colden. DISTRIBUTION: TN, NY, NC.  
**angustipennis** Loew, 1862: 213 (Cent. 2, no. 64). HT in MCZ. Type locality: USA: DC. DISTRIBUTION: CA and UT to DC, s. to FL (NV, AZ, WY, NM, TX, NC, GA); MEX, Neotropics, Hawaiian Is. [Knowlton & Harmston (1937); Robinson (1964, 1970b); Evenhuis (1996, 1997a); Vockeroth (personal commun.)].  
**argyropus** Becker, 1922a: 79. HT in NMW. Type locality: America. Possibly not Nearctic.  
**auratus** (Aldrich), 1896a: 83 (*Macellocerus*). ST in USNM (3). Type locality: USA: ID, Moscow. DISTRIBUTION: WA, CA, NV, ID, UT, AZ, CO [Corpus (1988)].  
**binodatus** Loew, 1866b: 46 (Cent. 7, no. 84). HT in MCZ. Type locality: USA: NY, Saratoga. DISTRIBUTION: AK, ON, QC, and NS, s. to NE and TN (MI, IN, OH, NY, NJ) [Robinson (1964); Harmston & Rapp (1983); Bissett (1987)].

**boharti** Harmston, 1968: 15. HT in UCDC. Type locality: USA: CA, Sierra Co., Yuba Pass.  
**californicus** (Harmston & Knowlton), 1943a: 105 (*Polymedon*). HT in CAS. Type locality: USA: CA, Sonora.  
**canacolli** Brooks, NEW NAME for *Paraclius utahensis* Harmston & Knowlton, 1946b proposed herein by second author in recognition of the contribution of the CanaColl Foundation to the production of this catalog. Type locality: USA: UT, St. George.  
*utahensis* (Harmston & Knowlton), 1946b: 23 (*Paraclius*); preocc. by *Tachytrechus utahensis* Harmston & Knowlton, 1940a. HT in USNM. Type locality: USA: UT, St. George. NEW COMBINATION.  
**castus** (Wheeler), 1899: 6 (*Polymedon*). HT in AMNH. Type locality: USA: AZ, Grand Canon. DISTRIBUTION: AZ, UT.  
*castor*; error listed by Foote et al. (1965).  
**dilaticosta** (Van Duzee), 1927d: 124 (*Polymedon*). HT in CNC. Type locality: USA: AZ, Grand Canon, Bright Angel Trail.  
**duplicatus** Harmston, 1972: 157. HT in CAS. Type locality: USA: OR, Baker.  
**flabellifer** (Osten Sacken), 1877: 317 (*Polymedon*). ST in MCZ. Type locality: USA: CA, Sonoma Co., Los Guilucos. DISTRIBUTION: WA, OR, CA, ID, UT.  
**flavitibialis** (Van Duzee), 1930c: 71 (*Polymedon*). HT in SEMC. Type locality: USA: southern AZ.  
**floridensis** Aldrich, 1896a: 82. ST in USNM (4). Type locality: USA: FL.  
**granditarsis** Greene, 1922: 17. HT in USNM. Type locality: USA: CA, Jacumba Spring. DISTRIBUTION: CA, UT, AZ, WY [Vockeroth (personal commun.)].  
**greenei** Foote et al., 1965: 503; n. name for *Tachytrechus bipunctatus* Greene. Type locality: USA: ID, St. Anthony. DISTRIBUTION: ID, UT, AB.  
*bipunctatus* Greene, 1922: 9; preocc. by *Dolichopus bipunctatus* Macquart, 1842, now *Tachytrechus*. HT in USNM. Type locality: USA: ID, St. Anthony.  
**harmstoni** Meuffels & Grootaert, 1999: 292; n. name for *Tachytrechus californicus* Harmston & Knowlton, 1963. Type locality: USA: CA, Trinity Co., Trinity River Camp.  
*californicus* Harmston & Knowlton, 1963: 234; preocc. by *Tachytrechus californicus* (Harmston & Knowlton), 1943a, previously in *Polymedon*. HT in CAS. Type locality: USA: CA, Trinity Co., Trinity River Camp.  
**indianus** (Harmston & Knowlton), 1946b: 24 (*Paraclius*). HT in ?USNM. Type locality:

- USA: IN, Indianapolis. DISTRIBUTION: TN, IN, OH, NC, SC, FL.
- keiferi** (Van Duzee), 1927a: 146 (*Paraclius*). HT in CAS. Type locality: MEX: Baja California, Cedros Is. DISTRIBUTION: OR, CA, ID, AZ; MEX. NEW COMBINATION, NEW RECORD.
- laticrus** Van Duzee, 1918: 46. LT designated by Arnaud (1979: 292) in CAS. Type locality: USA: NJ, Manahawkin.
- latitarsus** (Parent), 1929a: 182 (*Polymedon*). HT in MLUH. Type locality: unknown. DISTRIBUTION: America [Robinson (1970b)].
- parenti* Robinson, 1970b: 55; unnecessary n. name for *Polymedon latitarsus* Parent, not *latitarsis* Becker, 1922a: 81. NEW SYNONYMY.
- latitarsis*; error by Robinson (1970b: 55).
- mchughi** Harmston, 1972: 156. HT in CAS. Type locality: USA: OR, Latourelle Falls. DISTRIBUTION: OR, CA.
- milleri** Harmston, 1966b: 223. HT in CAS. Type locality: USA: OR, Crater Lake.
- moechus** Loew, 1861a: 40. ST in MCZ, CNC (1). Type locality: USA: NY, Trenton Falls. DISTRIBUTION: ON, QC, and NS, s. to NE, IA, and SC (IL, TN, IN, NY, NH, NC) [Robinson (1964); Harmston & Rapp (1983); Bissett (1987)].
- mysticus** (Becker), 1922a: 52 (*Paraclius*). ST in ZMHB. Type locality: USA: GA.
- nigrifemoratus** (Van Duzee), 1927d: 125 (*Polymedon*). HT in CAS. Type locality: USA: AZ, Oak Creek Canon, 6000 ft. DISTRIBUTION: AZ, NM.
- nimius** (Aldrich), 1901: 334 (*Polymedon*). ST in USNM (2). Type localities: MEX: Guerrero, Omilteme, 8000 ft; Sierra de las Aguas Escondidas, 7000 ft. DISTRIBUTION: ID, UT, AZ; MEX, Neotropics [Robinson (1970b)].
- nigricornis* (Van Duzee), 1929: 53 (*Polymedon*). HT in USNM. Type locality: Guatemala: Alta Vera Paz, Tamau [Robinson (1970b)].
- nitidus** (Van Duzee), 1927d: 125 (*Polymedon*). HT in CNC. Type locality: USA: AZ, Grand Canon, Bright Angel Trail.
- olympiae** (Aldrich), 1896a: 83 (*Macellocerus*). ST in USNM (4). Type locality: USA: WA, Olympia. DISTRIBUTION: WA to IL, s. to CA.
- protervus** Melander, 1900: 143. ST in AMNH. Type locality: USA: NJ, Clementon. DISTRIBUTION: NH to FL (NJ, MD, NC, SC) [Robinson (1964)].
- junctus* Coquillett, 1910a: 125. HT in USNM. Type locality: USA: NJ, Manahawkin.
- rotundipennis** Greene, 1922: 5. HT in USNM. Type locality: USA: DE. DISTRIBUTION: DE, NJ.
- sanus** Osten Sacken, 1877: 316. ST in MCZ. Type locality: USA: CA, Sierra Nevada, Sierra Co., Webber Lake. DISTRIBUTION: WA, CA, AB, UT, CO [Knowlton & Harmston (1937)].
- spinitarsis* (Van Duzee), 1924d: 43 (*Tetrechus*). HT in CAS. Type locality: USA: CA, Tulare Co., Giant Forest, 9000 ft. NEW SYNONYMY.
- simulatus** Greene, 1922: 4. HT in USNM. Type locality: USA: ID, St. Anthony. DISTRIBUTION: BC, OR, ID, MT, UT.
- tahoensis** Harmston & Knowlton, 1940a: 114. HT in USNM. Type locality: USA: CA, Tahoe.
- tenuiseta** Greene, 1922: 10. HT in USNM. Type locality: USA: OR, Newport. DISTRIBUTION: BC, OR, CA, NM [Vockerth (personal commun.)].
- utahensis** Harmston & Knowlton, 1940a: 112. HT in USNM. Type locality: USA: UT, Torrey.
- volitans** Melander, 1900: 143. ST in AMNH (2). Type locality: USA: WY, 12 mi NW of Lusk. DISTRIBUTION: WY, TX.
- vorax** Loew, 1861a: 41. ST in MCZ, CNC (1). Type locality: USA: DC. DISTRIBUTION: CA to QC, s. to TX and NC (CO, SD, NE, IA, ON, MI, IN, NH, NJ, DC, VA) [Steyskal (1947a); Robinson (1964); Harmston & Rapp (1983)].

SUBFAMILY ENLINIINAE ROBINSON,  
1970a: 55

**Genus ENLINIA Aldrich, 1933**

*COLLINELLULA* Aldrich, 1932: 4. Type species: *Collinellula magistri* Aldrich, by monotypy; preocc. by *Collinellula* Strand, 1928.

**ENLINIA** Aldrich, 1933: 168. Type species: *Collinellula magistri* Aldrich [Nearctic], automatic. N. name for *Collinellula* Aldrich, 1932.

NOTES: *Enlinia* is known only from the New World and contains some of the smallest members of the family. Species of *Enlinia* are typically found hovering close to wet soil or rock surfaces. Both their size and habits have undoubtedly contributed to their rarity in traditional sweepnet collections; however, they are sometimes taken in large numbers in Malaise trap catches.

REFERENCES: Robinson (1964; key, southeastern U.S.; 1969, comprehensive review, Mexican species); Robinson & Arnaud (1970; key).

**arizonica** Robinson, 1973: 419. HT in USNM. Type locality: USA: AZ, Cochise Co., Portal, S.W. Res. Sta.

**californica** Robinson & Arnaud, 1970: 2. HT in CAS. Type locality: USA: CA, SW of Redwood City, Stulsaft Park, 150 ft. DISTRIBUTION: CA, OR [Arnaud (1969); Robinson & Arnaud (1970); Arnaud (1972)].



- ciliata** Robinson, 1964: 124. HT in USNM (no specimen on pin). Type locality: USA: NC, Durham, Duke University, Duke Gardens. DISTRIBUTION: IN, TN, MS, MD, DC, VA, NC, FL; MEX [Robinson (1964, 1970b; personal commun.); Vockeroth (personal commun.)].
- magistri** (Aldrich), 1932: 5 (*Collinellula*). HT in ?UMO. Type locality: USA: NY, Ithaca. DISTRIBUTION: ON, QC, NY, DE, DC [Robinson (personal commun.); Vockeroth (personal commun.)].
- robinsoni** Steyskal, 1975: 478. HT in USNM. Type locality: USA: OK, Murray Co., Turners Falls.
- saxicola** Robinson, 1964: 125. HT in USNM. Type locality: USA: TN, Unicoi Co., on State Route 81 NW of Erwin. DISTRIBUTION: TN, VA, NC, SC.
- taeniocaudata** Robinson & Arnaud, 1970: 7. HT in USNM. Type locality: CAN: BC, Mt. Revelstoke, 2745 ft.
- texana** Robinson, 1973: 420. HT in USNM. Type locality: USA: TX, Kimble Co., Llano River.

### Genus HARMSTONIA Robinson, 1964

**HARMSTONIA** Robinson, 1964: 122. Type species: *Harmstonia intricata* Robinson [Nearctic], by original designation.

NOTES: *Harmstonia* is known from the New World, with the highest species richness in the Neotropics. In North America, species of *Harmstonia* occur on mud at edges of streams and on moist rock surfaces and seem to be restricted to limestone regions (Robinson, 1964).

REFERENCE: Robinson (1964; key, eastern U.S.).

- intricata** Robinson, 1964: 122. HT in USNM. Type locality: USA: TN, Knox Co., University of Tennessee Farm, nr Knoxville. DISTRIBUTION: TN, NY, MD, VA.
- pectinicauda** Robinson, 1964: 123. HT in USNM. Type locality: USA: VA, Frederick Co., along Furnace Run about 1 mi S of Mt. Williams. DISTRIBUTION: VA; MEX.

### SUBFAMILY HYDROPHORINAE LIOY, 1863–1864: 903

#### Genus DIOSTRACUS Loew, 1861a

- DIOSTRACUS** Loew, 1861a: 43. Type species: *Diostracus prasinus* Loew [Nearctic], by monotypy.
- ASPHYROTARSUS** Oldenberg, 1916: 193. Type

species: *Liancalus leucostomus* Loew, by original designation.

NOTES: *Diostracus* is widely distributed in the northern hemisphere and is known from North America, Europe, and Eastern Asia. The majority of described species (>90%) occur in temperate Eastern Asia (Saigusa et al., 1997). Adults are typically found near wet rocks and stones in mountain streams.

REFERENCES: Aldrich (1911b); Robinson (1964; key, North America).

- mchughi** Harmston, 1966b: 224. HT in CAS. Type locality: USA: OR, Latourelle Falls. DISTRIBUTION: WA, OR.
- olga** Aldrich, 1911b: 71. ST in ?Type locality: USA: WA, Orcas Is., Olga. DISTRIBUTION: BC, WA, CA, ID [Hurley (personal commun.)].
- prasinus** Loew, 1861a: 44. ST in MCZ. Type locality: USA: NY. DISTRIBUTION: QC, NS, NY, VT, NH, MA, CT, PA, VA, TN, NC [Robinson (1964); Bissett (1987); Hurley (personal commun.)].

#### Genus HYDATOSTEGA Philippi, 1865

**HYDATOSTEGA** Philippi, 1865: 779. Type species: *Hydatostega poliogastra* Philippi [Neotropical], by monotypy.

**MILLARDIA** Curran, 1934: 231. Type species: *Medeterus viridiflos* Walker, by original designation; preocc. by *Millardia* Thomas, 1911.

NOTES: *Hydatostega* has only recently been recognized as a separate genus by Hurley (1985) and only three species and three subspecies are known from the Nearctic. There appear to be many species at high altitudes and/or high latitudes of the southern Neotropical region. *H. viridiflos* subsp. *gratiosa* has also been encountered in Mexico. Adults are generally associated with standing water and are adept at skating on the surface. *H. plumbea* appears to be restricted to lakes with high salinity (Herbst & Bradley, 1988; Hurley, 1995); and *H. v. viridiflos* to Atlantic coastal saline habitats (Hurley, 1995).

REFERENCES: Hurley (1985, 1995; rev.)

- cerutias** (Loew), 1872: 91 (Cent. 10, no. 65) (*Hydrophorus*); comb. by Hurley (1995). HT in MCZ. Type locality: USA: TX, Belfrage. DISTRIBUTION: AB, MT, WY, CO, AZ, NM, SD, NE, KS, TX, OK, IA [Hurley (1995)].
- plumbea** (Aldrich), 1911a: 50 (*Hydrophorus*); comb. by Hurley (1995). HT in USNM. Type locality: USA: WA, Grand Coulee, Soap Lake.

DISTRIBUTION: WA, OR, CA, NV, UT, SK, MB [Hurley (1995)].

*albomaculatus* (Van Duzee), 1926c: 47 (*Hydrophorus*); synonymized by Hurley (1995). HT in CNC. Type locality: CAN: MB, Aweme [Hurley (1995)].

**viridiflos** (Walker), 1852–1853: 212 (*Medeterus*); transferred to *Hydatostega* by Hurley (1995), previously placed in *Hydrophorus* by Loew (1864b).

**viridiflos** subsp. **fulvidorsum** (Van Duzee), 1925e: 182 (*Hydrophorus*); subspecies status and combination by Hurley (1995). HT in CNC. Type locality: CAN: AB, Chin. DISTRIBUTION: NT, BC, AB, SK, MB, ID, NV, UT, MT, WY, CO, SD [Hurley (1995)].

**viridiflos** subsp. **gratiosa** (Aldrich), 1911a: 49 (*Hydrophorus*); subspecies status and combination by Hurley (1995). LT designated by Hurley (1995: 133) in USNM. Type locality: USA: ID, Moscow. DISTRIBUTION: AK, BC, AB, WA, OR, CA, ID, NV, UT, AZ, MT, WY, ND, CO, NM, TX; MEX [Hurley (1995)].

*argentatus* (Van Duzee), 1918: 50 (*Hydrophorus*); synonymized by Hurley (1995). HT in CAS. Type locality: USA: CA, Berkeley.

**viridiflos** subsp. **viridiflos** (Walker), 1852–1853: 212 (*Medeterus*); subspecies status and combination by Hurley (1995). HT in BMNH. Type locality: North America. DISTRIBUTION: MB, QC, NY, NB, PEI, NS, NF, ME, MA, CT, NJ, DE, VA [Hurley (1995)].

*intentus* (Aldrich), 1911a: 51 (*Hydrophorus*); synonymized by Parent (1934a). HT in USNM. Type locality: USA: MA, Horse Neck Beach [Hurley (1985, 1995)].

*indentus*; error for *Hydrophorus intentus* listed by Foote et al. (1965) [Hurley (1985)].

*browni* (Curran), 1930a: 73 (*Hydrophorus*); synonymized by Hurley (1995). HT in CNC. Type locality: CAN: QC, Bonne Esperance.

### Genus HYDROPHORUS Fallén, 1823

**HYDROPHORUS** Fallén, 1823: 2. Type species: *Hydrophorus nebulosus* Fallén [Palearctic], by validation of the I.C.Z.N. 1985:162.

**APHROZETA** Perris, 1847: 491. Type species: *Aphrozeta semiglaucula* Perris, designation by Coquillett, 1910c: 508. [= *Medeterus viridis* Meigen, 1824].

**PARHYDROPHORUS** Wheeler, 1896b: 185. Type species: *Parhydrophorus canescens* Wheeler, by monotypy.

NOTES: *Hydrophorus* is known from all realms, but is most diverse in temperate, arctic, and boreal zones. The majority of Nearctic species occur in the north and west.

Adults of some species are often seen skating on the surfaces of stagnant water bodies, whereas others are found on the shores of large rivers and streams or in saltmarshes near the coast.

REFERENCES: Aldrich (1911a; rev.); Van Duzee (1923c, 1926d; keys); Robinson (1964; key, eastern North America); Hurley (1985, 1995; rev.).

**aestuum** Loew, 1869a: 36 (Cent. 8, no. 60); removed from synonymy with *Hydrophorus praecox* (Lehmann), 1822 by Hurley (1985). ST in MCZ. Type locality: USA: RI, Newport. DISTRIBUTION: CA, WY, MT, NE, ND, SD, CO, SK, MB, ON, QC, NB, PEI, ME, MN, MI, IL, NY, NH, MA, NJ, RI, VA, NC, KS, OK, TX, LA, MS, GA, FL, Bermuda; MEX, Neotropics (Bahamas) [Hurley (1985, personal commun.); Woodley & Hilburn (1994)].

*aestuans*; error for *Hydrophorus aestuum* listed by Foote et al. (1965) under *Hydrophorus praecox*.

**agalma** Wheeler, 1899: 66. LT designated by Hurley (1985: 18) in AMNH. Type locality: USA: MI, Battle Creek. DISTRIBUTION: AB, ID, MB, SK, MI, ON, MA [Hurley (1985)].

**alboflorens** (Walker), 1848–1849: 656 (*Medeterus*). ST in BMNH (4). Type locality: CAN: NS. DISTRIBUTION: MN, WI, MI, ON, QC, NB, NS, NY, PA, ME, NH, MA, WV, DC [Hurley (1985)].

*pirata* Loew, 1861a: 71; synonymized by Hurley (1985). ST in MCZ. Type locality: USA: PA.

**algens** Wheeler, 1899: 63. LT designated by Hurley (1985: 22) in AMNH. Type locality: USA: WY, Two-gwo-te-ee Pass. DISTRIBUTION: AK, YT, BC, NT, AB, ID, MT, WY, CO, MB, QC [Hurley (1985, 1995)].

*hirtipes* Van Duzee, 1933b: 17; synonymized by Hurley (1985). HT in CNC. Type locality: CAN: QC, Thunder River.

**alpinus** Wahlberg, 1844: 109. ST in ?NHRS. Type locality: Sweden: Mts. Walli and Snjerack nr Quickjock. DISTRIBUTION: AK, YT, NT, MB, QC; Palearctic [Hurley (1985, 1995); Negrobov (1991)].

*epakter* Hurley, 1985: 23; synonymized by Hurley (1985). HT in CNC. Type locality: CAN: NT, Chesterfield.

**altivagus** Aldrich, 1911a: 67. HT in USNM. Type locality: USA: CO, Marshall Pass, 10,865 ft. DISTRIBUTION: AK, YT, BC, NT, AB, ID, MT, UT, WY, CO, SK, MB, MN, ON, QC, NH, NF; Palearctic [Hurley (1985, personal commun.); Negrobov (1991)].

*wahlgreni* Frey, 1915: 4, 57, 63; synonymized

- by Hurley (1985). HT in MZHF. Type localities: Finland: Helsingfors; Vasa; Tuovilanlathi; Kontiolathi.
- lividipes* Van Duzee, 1926c: 50; synonymized by Hurley (1985). HT in CNC. Type locality: CAN: MB, Aweme.
- amplectens** Aldrich, 1911a: 67. ST in USNM (6). Type locality: USA: SD, Brookings; MI, Battle Creek. DISTRIBUTION: AK, ON, NT, NY, QC, YT, SD, MI [Hurley (1985, 1995)].
- ampullaceus** Van Duzee, 1924c: 247. HT in CNC. Type locality: CAN: AB, Banff. DISTRIBUTION: AK, BC, AB, ID, WY [Hurley (1985, 1995)].
- angustifacies** Hurley, 1985: 29. HT in CNC. Type locality: CAN: ON, Ottawa. DISTRIBUTION: MI, ON, QC.
- aquatilis** Aldrich, 1922a: 17. HT in USNM. Type locality: USA: AK, Fairbanks. DISTRIBUTION: AK, YT, BC, NT, WA, OR, AB, ID, MT, WY, CO, SK, ND, MB, ON, QC, NF [Hurley (1985, 1995, personal commun.)].
- aquitilis*; error by Cole & Schlinger (1969: 279) [Hurley (1985)].
- criddelei* Van Duzee, 1925e: 181; synonymized by Hurley (1985). ST in CAS (2), CNC (2). Type locality: CAN: MB, Aweme.
- argentifacies* Van Duzee, 1926c: 51; synonymized by Hurley (1985). HT in CNC. Type locality: CAN: MB, Treesbank [Hurley (1985)].
- arnaudi** Hurley, 1985: 32. HT in CAS. Type locality: USA: CA, Yosemite National Park, Yosemite Valley. DISTRIBUTION: WA, OR, CA, NV, ID, CO [Hurley (1995, personal commun.)].
- californicus* Hurley, 1985: 32; synonymized by Hurley (1985). HT in EMEC. Type locality: USA: CA, Shasta Co., Lassen PK. Trail.
- bovatus** Hurley, 1985: 33. HT in CNC. Type locality: CAN: SK, Saskatoon.
- brevicauda** Van Duzee, 1923c: 259. HT in OSU. Type locality: USA: AK, Savonoski, Naknek Lake. DISTRIBUTION: AK, YT, NT, MB [Hurley (1985, 1995)].
- brevisetula** (Thomson), 1869: 510 (*Medeterus*). HT in NHRS. Type locality: USA: CA. DISTRIBUTION: AK, BC, WA, OR, CA [Hurley (1985)].
- canescens** (Wheeler), 1896b: 187 (*Parhydrophorus*). LT designated by Hurley (1985: 38) in AMNH. Type locality: USA: WY, 40 mi N of Lusk. DISTRIBUTION: CA, UT, WY, CO, MB, SD, NE, KS, TX [Hurley (1985)].
- canities** Van Duzee, 1923c: 253. HT in OSU. Type locality: USA: AK, Savonoski, Naknek Lake. DISTRIBUTION: AK, QC [Hurley (1985)].
- canites*; error by Van Duzee (1923c: 250) [Hurley (1985, 1995)].
- chrysologus** (Walker), 1848–1849: 655 (*Medeterus*). HT in BMNH. Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls. DISTRIBUTION: AK, AB, NT, ID, WY, CO, SK, MB, MN, WI, MI, OH, ON, QC, NY, MA, ME, NH, NJ, NB, NS, NF [Hurley (1985, personal commun.)].
- chrysolygus*; error for *Hydrophorus chrysologus* by Becker (1922a) and Parent (1934a) [Hurley (1985)].
- chrysolgus*; error for *Hydrophorus chrysologus* by Van Duzee (1923c: 251) [Hurley (1985)].
- glaber*, not Walker; misid. by Wheeler (1899) [Hurley (1985)].
- glabor*; error for *Hydrophorus glaber* by Van Duzee (1923c) [Hurley (1985)].
- algens*, not Wheeler; misid. by Snodgrass (1904) [Hurley (1985)].
- alter* Parent, 1934a: 19; synonymized by Hurley (1985). Type(s) not designated. Type locality: America.
- claripennis** Van Duzee, 1924c: 246. HT in CNC. Type locality: CAN: MB, Aweme. DISTRIBUTION: AK, BC, AB, NT, SK, ID, WY, CO, MB, ON [Hurley (1985, personal commun.)].
- nigrinervis* Van Duzee, 1926c: 46; synonymized by Hurley (1985). HT in CNC. Type locality: CAN: BC, Kamloops.
- dioktes** Hurley, 1985: 44. HT in CAS. Type locality: USA: CA, Yosemite National Park, Tuolumne Meadows. DISTRIBUTION: CA, OR.
- dreisbachi** Harmston & Knowlton, 1963: 231. HT in USNM. Type locality: USA: MI, Midland Co. DISTRIBUTION: AB, MI [Hurley (1985)].
- eldoradensis** Wheeler, 1899: 65; removed from synonymy with *Hydrophorus praecox* (Lehmann), 1822 by Hurley (1985). LT designated by Hurley (1985: 47) in USNM. Type locality: USA: NM, Magdalena Mts. DISTRIBUTION: BC, WA, OR, CA, NV, ID, AB, MT, WY, UT, AZ, CO, NM, SK, MB, ND, SD, NE, KS, OK, TX, MN, IA, NY; MEX.
- extrarius** Aldrich, 1911a: 65. HT in USNM. Type locality: USA: SD, Brookings. DISTRIBUTION: AB, SK, MB, SD, MN ON, QC [Hurley (1985, 1995)].
- purus* Curran, 1924c: 193; synonymized by Hurley (1985). HT in CNC. Type locality: CAN: MB, Reston.
- ferruginus** Hurley, 1985: 50. HT in WSU. Type locality: USA: OR, Neskowin. DISTRIBUTION: WA, OR, CA.
- flavihirtus** Van Duzee, 1923c: 259. HT in OSU. Type locality: USA: AK, Savonoski, Naknek Lake. DISTRIBUTION: AK, YT, BC, NT, AB, ID, MT, WY, UT, CO, MB, MI, QC, NF [Hurley (1985, personal commun.)].

- flavipennis** Van Duzee, 1926c: 48. HT in CAS. Type locality: USA: ON, Wainfleet. DISTRIBUTION: BC, MI, ON, QC, NY [Hurley (1985)].
- fumipennis** Van Duzee, 1921a: 167. HT in CAS. Type locality: USA: AK, St. Paul Is. DISTRIBUTION: AK, NT [Hurley (1985, 1995)].
- glaber** (Walker), 1848–1849: 655 (*Medeterus*). ST in BMNH (3). Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls. DISTRIBUTION: AK, YT, BC, NT, AB, UT, WY, CO, SK, MB, ON, QC, NB, NF [Hurley (1985)].
- propinquus* Van Duzee, 1923c: 256; synonymized by Hurley (1985). ST in OSU, CAS (2). Type localities: USA: AK, Katmai; Kodiak; Savonoski, Naknek Lake.
- harmstoni** Hurley, 1985: 57. HT in CAS. Type locality: USA: WY, Teton Co., Togwotee Pass.
- hesperius** Hurley, 1985: 58. HT in USNM. Type locality: USA: CA, Klamath River, nr Mouth. DISTRIBUTION: BC, WA, OR, CA [Hurley (1995)].
- hirpicifer** Hurley, 1985: 59. HT in CNC. Type locality: CAN: NF, Labrador, Cartwright. DISTRIBUTION: MB, NS, NF [Hurley (1995)].
- innotatus** Loew, 1864b: 212. ST in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK, BC, NT, WA, OR, CA [Hurley (1985)].
- vandykei* Van Duzee, 1926d: 4; synonymized by Hurley (1985). HT in CAS. Type locality: USA: OR, Newport.
- maculipennis** Van Duzee, 1926c: 45. HT in CAS. Type locality: USA: OR, Newport. DISTRIBUTION: BC, WA, OR, ID, CO [Hurley (1985, 1995)].
- magdalenae** Wheeler, 1899: 67. LT designated by Hurley (1985: 63) in AMNH. Type locality: USA: NM, Magdalena. DISTRIBUTION: WA, OR, CA, NV, ID, MT, UT, AZ, NM, CO, WY [Hurley (1985, 1995)].
- manicatus** Collin, 1935: 372. HT in UMO. Type locality: CAN: QC, Ungava Bay, Akpatok Is., Port Burwell. DISTRIBUTION: NT, MB, QC, NF [Hurley (1985)].
- minimus** Van Duzee, 1924f: 15; presumably a synonym of *Hydrophorus aquatilis* Aldrich, 1922a (Hurley 1985). HT in USNM. Type locality: USA: AK, Fairbanks.
- myllomerus** Hurley, 1985: 68. HT in CNC. Type locality: CAN: NT, Yellowknife [Hurley (1995)].
- parvus** Loew, 1862: 214 (Cent. 2, no. 67). HT in MCZ. Type locality: USA: IL. DISTRIBUTION: IL, MI, PA, NH, MA, CT [Hurley (1985, 1995)].
- pectinipes** Van Duzee, 1923c: 254. HT in OSU. Type locality: USA: AK, Katmai [Hurley (1985, 1995)].
- pensus** Aldrich, 1911a: 68. HT in USNM. Type locality: USA: ID, Craig's Mt. DISTRIBUTION: BC, WA, OR, ID, UT [Hurley (1985)].
- phaeopteryx** Hurley, 1985: 73. HT in USNM. Type locality: USA: AK, Pt. Barrow [Hurley (1995)].
- phalarus** Hurley, 1985: 74. HT in CNC. Type locality: CAN: MB, Warkworth Cr., nr Churchill. DISTRIBUTION: AK, YT, AB, SK, MB [Hurley (1995)].
- philombrius** Wheeler, 1890: 378. HT in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: AK, BC, WA, OR, CA, NT, ID, NV, UT, AZ, AB, MT, WY, CO, NM, SK, MB, ND, SD, NE, KS, TX, MN, IA, AR, MS, WI, ON, MI, IN, QC, NY, NJ, VA, NS [Hurley (1985, personal commun.); Bissett (1987)].
- phoca** Aldrich, 1911a: 63. HT in USNM. Type locality: CAN: BC, Vancouver Is., Corfield. DISTRIBUTION: AK, BC, WA, OR, CA [Hurley (1985)].
- spinus* Van Duzee, 1933b: 16; synonymized by Hurley (1985). HT in AMNH. Type locality: USA: OR, Lincoln Co., Boiler Bay.
- oregonensis* Van Duzee, 1933b: 19; synonymized by Hurley (1985). HT in AMNH. Type locality: USA: OR, Lincoln Co., Boiler Bay.
- pilitarsis** Malloch, 1919a: 51. ST in CNC (3), INHS (2). Type locality: USA: AK, Teller. DISTRIBUTION: AK, NT [Hurley (1985)].
- plautus** Hurley, 1985: 80. HT in CNC. Type locality: CAN: NT, Yellowknife. DISTRIBUTION: NT, AB, SK [Hurley (1995)].
- rhionopous** Hurley, 1985: 82. HT in UMSP. Type locality: USA: NY, Long Is., Cold Spring Harbor.
- signifer** Coquillett, 1899: 344; justified emendation of *Hydrophorus signiferus* by Foote et al. (1965). HT in USNM. Type locality: Russia: Bering Is. DISTRIBUTION: AK, YT, NT, MB, QC, NF; Palearctic [Hurley (1985, 1995)].
- signiferus* Coquillett, 1899: 344; original spelling of *Hydrophorus signifer* [Negrobov (1979a); Hurley (1985)].
- magnicornis* Frey, 1915: 4, 58, 70; synonymized by Negrobov (1979a). ST in MZHF. Type localities: Finland: Muonio; Enontekis; Bjälöguba; Kusomen; Kittilä; Kantalak; Ponoj; Kola [Hurley (1985)].
- kolaensis* Frey, 1915: 71; as *magnicornis* variety. HT in ?MZHF. Type locality: Russia: Kola Peninsula, Alexandrovsk [Negrobov (1991)].
- nigribarbus* Van Duzee, 1923c: 257; synonymized by Hurley (1985). HT in OSU. Type locality: USA: AK, Katmai.
- sodalis** Wheeler, 1899: 68. ST in USNM (4), AMNH (3). Type localities: USA: WY, Lusk; Ft. Caspar; Natrona Co.; Dubois; Hunter's

Creek; Black Rock Creek. DISTRIBUTION: BC, WA, OR, CA, NV, ID, UT, AZ, AB, MT, WY, CO, NM, SK, MB, SD, NE, MN, MI [Harmston & Rapp (1983); Hurley (1985)].

**trichaspis** Hurley, 1985: 86. HT in CNC. Type locality: CAN: MB, Fort Churchill. DISTRIBUTION: AK, MB [Hurley (1995)].

**viridifacies** Van Duzee, 1923c: 255. HT in OSU. Type locality: USA: AK, Savonoski, Naknek Lake. DISTRIBUTION: AK, NT, CO, MB [Hurley (1985, 1995)].

### Genus HYPOCHARASSUS Mik, 1878a

**HYPOCHARASSUS** Mik, 1878a: 627. Type species: *Hypocharassus gladiator* Mik [Nearctic], by original designation.

**DREPANOMYIA** Wheeler, 1898: 217. Type species: *Drepanomyia pruinosa* Wheeler, designation by Coquillett, 1910c: 535.

NOTES: *Hypocharassus* shows a disjunct distribution, being known from the Nearctic and the Oriental realms. Both Nearctic species occur along coastal areas of the Southeastern United States, where they are common on beaches near vegetation and occasionally found in immense numbers on floating seaweed. They are very wary and therefore very hard to capture (Robinson, 1964). The larval stages are intertidal and form cocoons of sand in which they pupate.

REFERENCES: Becker (1922a); Smith (1952; biology); Robinson (1964; key, southeastern U.S.).

**gladiator** Mik, 1878a: 629. HT in ?NMW. Type locality: USA: GA. DISTRIBUTION: GA, FL, NC.

*johnsonii* (Wheeler), 1898: 219 (*Drepanomyia*). HT in AMNH. Type locality: USA: FL, St. Augustine.

**pruinosa** (Wheeler), 1898: 218 (*Drepanomyia*). HT in AMNH. Type locality: USA: FL, St. Augustine. DISTRIBUTION: GA, FL, MA, RI, VA, NC.

### Genus LIANCALUS Loew, 1857a

**ANOPLOMERUS** Rondani, 1856: 141. Type species: (1) Rondani, 1856: 141 = *Hydrophorus regius* (Fabricius) by original designation [= *virens* Scopoli, 1763]; (2) Rondani, 1856: 228 = *Hydrophorus notatus* (Fabricius), correction (see notes in Ulrich, 1972; Hurley, 1995); preocc. by *Anoplomerus* Dejean, 1835 (see notes in Ulrich, 1972; Negrobov, 1991) and *Anoplomerus* Guérin-Ménéville, 1844 (see Ul-

rich, 1972; Hurley, 1995). Synonymy after Rondani, 1861: 11.

**ANOPLOPUS** Rondani, 1857: 14. Type species: (1) Rondani, 1856: 141 = *Hydrophorus regius* (Fabricius) [= *virens* Scopoli, 1763], automatic; (2) Rondani, 1856: 228 = *Hydrophorus notatus* (Fabricius), automatic; (see notes in Ulrich, 1972, Hurley, 1995); n. name for *Anoplomerus* Rondani, 1856; preocc. by *Anoplopus* Wagler, 1830. Synonymy after Rondani, 1861: 11.

**LIANCALUS** Loew, 1857a: 22. Type species: *Musca virens* Scopoli, 1763 [Palearctic] [= *regius* Fabricius, 1805], automatic. N. name for *Anoplomerus* Rondani, 1856, not Guérin-Ménéville, 1844.

NOTES: *Liancalus* is known from all realms except Australasia and Oceania. This genus is hygrophilous and is often found in association with vertical seepages. Adults of *L. similis* are found in moist shaded areas in association with drainage culverts, freshet seeps, and waterfalls. Larvae are known from algal mats (Corpus, 1986b).

REFERENCE: Van Duzee (1917a; key).

**genualis** Loew, 1861a: 70. ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: MN to QC and NB, s. to AR, MS, and GA (ON, MI, MO, IL, IN, KY, TN, OH, PA, NY, ME, NJ, NC, SC, WV, VA); MEX [Robinson (1964, 1970b); Hurley (personal commun.)].

**hydrophilus** Aldrich, 1893c: 569. ST in USNM (22), SEMC (4). Type locality: USA: SD, Black Hills. DISTRIBUTION: NV, UT, AZ, AB, NM, CO, SD [Hurley (personal commun.)].

**limbatus** Van Duzee, 1917a: 127. HT in CAS. Type locality: USA: CA, Berkeley. DISTRIBUTION: BC, WA, OR, CA, ID [Hurley (personal commun.)].

**querulus** Osten Sacken, 1877: 318. ST in MCZ. Type locality: USA: CA, Sonoma Co., The Geysers. DISTRIBUTION: WA, OR, CA, ID, UT, AZ, WY [Hurley (personal commun.)].

**similis** Aldrich, 1893c: 571. ST in SEMC. Type locality: USA: WA. DISTRIBUTION: WA, OR, CA, NV, ID, MT; MEX [Hurley (personal commun.)].

### Genus MELANDERIA Aldrich, 1922b

**MELANDERIA** Aldrich, 1922b: 146. Type species: *Melanderia mandibulata* Aldrich [Nearctic], by original designation.

NOTES: *Melanderia* is an intertidal genus only known from the west coast of North America. Adults have highly developed la-

bellae which are used like mandibles (Snodgrass, 1922).

REFERENCE: Arnaud (1958; rev.).

### Subgenus MELANDERIA Aldrich, 1922b

**crepuscula** Arnaud, 1958: 181. HT in USNM. Type locality: USA: CA, Monterey Co., Pacific Grove, Pt. Pinos.

**mandibulata** Aldrich, 1922b: 146. HT in USNM. Type locality: USA: WA, Ilwaco. DISTRIBUTION: WA, OR, CA [Cole & Schlinger (1969)].

### Subgenus WIRTHIA Arnaud 1958

*Melanderia*, subgenus **Wirthia** Arnaud, 1958: 184. Type species: *Hydrophorus curvipes* Van Duzee [Nearctic], by original designation.

**californica** Harmston, 1972: 155. Listed under the nominate subgenus in Foote et al. (1965). HT in CAS. Type locality: USA: CA, San Diego.

**curvipes** (Van Duzee), 1918: 48 (*Hydrophorus*). HT in CAS. Type locality: USA: CA, San Diego.

### Genus PARAPHROSYLUS Becker, 1922a

*PARAPHROSYLUS* Becker, 1922a: 127. Type species: *Aphrosylus praedator* Wheeler, designation by Foote et al., 1965: 509. Described as subgenus of *Aphrosylus* Haliday (1851) by Becker (1922a); listed as synonym of *Aphrosylus* by Foote et al. (1965), Cole & Schlinger (1969), and Robinson (1970b); given full generic status by Robinson & Vockeroth (1981).

NOTES: *Paraphrosylus* is known from the eastern coasts of the Pacific and is related to *Melanderia*, *Cymatopus*, *Thambemyia*, and *Acymatopus* of the Pacific basin. All are confined to the intertidal zone where they occur mainly on rocky substrates.

REFERENCES: Wheeler (1897; rev., larvae); Saunders (1928; biology); Wirth & Stone (1956; biology); Corpus (1983; biology).

**californicus** (Harmston), 1952: 292 (*Aphrosylus*). HT in USNM. Type locality: USA: CA, Laguna. NEW COMBINATION.

**direptor** (Wheeler), 1897: 148 (*Aphrosylus*); comb. by Corpus (1983). ST in AMNH. Type locality: USA: CA, Pacific Grove. DISTRIBUTION: BC, WA, CA [Cole & Schlinger (1969)].

**grassator** (Wheeler), 1897: 149 (*Aphrosylus*). ST in AMNH. Type locality: USA: CA, Pacific Grove. NEW COMBINATION.

**nigripennis** (Van Duzee), 1924e: 75 (*Aphrosylus*); comb. by Corpus (1983). HT in USNM. Type locality: USA: AK, Seward. DISTRIBUTION: AK, WA, OR [Cole & Schlinger (1969)].

**praedator** (Wheeler), 1897: 146 (*Aphrosylus*); comb. by Corpus (1983). ST in AMNH. Type localities: USA: CA, Pacific Grove; Point Lobos; San Diego Co., Point Loma and La Jolla. DISTRIBUTION: BC, WA, CA.

**wirthi** (Harmston), 1951a: 13 (*Aphrosylus*). HT in CAS. Type locality: USA: CA, San Mateo Co., Moss Beach. NEW COMBINATION.

### Genus SCELLUS Loew, 1857a

**SCELLUS** Loew, 1857a: 22. Type species: *Hydrophorus spinimanus* Zetterstedt [Palearctic, Nearctic], designation by Coquillett, 1910c: 603.

*ANOPLOMERUS* Rondani, error, see Ulrich (1972) and Hurley (1995).

*ANOPLONUS* Rondani, error, see Ulrich (1972) and Hurley (1995).

NOTES: *Scellus* is restricted to the Holarctic realm. In the Nearctic, most species are western, except for the widespread species *S. exustus*. Adults have been collected in swampy, high-mountain meadows, pastures on the plains, and on the bark of trees (Hurley, 1995).

REFERENCES: Greene (1924; rev.); Harmston (1939; key to males); Hurley (1995; rev.).

**abditus** Hurley, 1995: 145. HT in CNC. Type locality: CAN: AB, Jumping Pound Creek, 20 mi W of Calgary. DISTRIBUTION: AB, MT, WY, SK, ND [Hurley (personal commun.)].

**amplus** Curran, 1923b: 73. HT in CNC. Type locality: CAN: BC, Saanich. DISTRIBUTION: BC, WA, OR, ID, MT [Hurley (1995)].

**asaroticus** Hurley, 1995: 153. HT in CNC. Type locality: USA: UT, Brighton. DISTRIBUTION: ID, UT, CO.

**avidus** Loew, 1864b: 207. HT in MCZ. Type locality: CAN: NT, Fort Resolution. DISTRIBUTION: AK, YT, BC, NT, AB, SK, WY, CO [Hurley (1995)].

**coloradensis** Harmston & James in Harmston & Knowlton, 1942b: 82. HT in USNM. Type locality: USA: CO, nr Saguache, 12,000 ft. DISTRIBUTION: MT, WY, CO [Hurley (1995)].

**crinipes** Van Duzee, 1925b: 177. HT in CAS. Type locality: USA: UT, Great Salt Lake, mouth of Bear River. DISTRIBUTION: ID, UT, WY, CO [Hurley (1995)].

**dyscritus** Hurley, 1995: 167. HT in MZLU. Type

- locality: USA: OR, Lake Co., Summer Lake.  
DISTRIBUTION: OR, CA, ID, UT, CO.
- exustus** (Walker), 1852–1853: 211 (*Medeterus*). HT in BMNH. Type locality: North America. DISTRIBUTION: BC, WA, OR, ID, UT, MT, CO, SK, MB, ND, SD, NE, MN, IA, WI, IL, MI, OH, ON, QC, NY, VT, ME, MA, PEI, NS [Robinson (1964); Hurley (1995)].  
*venustus*, error by Crampton (1942: 94) [Sabrosky (1978)].
- filifer** Loew, 1864b: 209. HT in MCZ. Type locality: CAN: NT, Fort Resolution. DISTRIBUTION: AK, YT, BC, NT, AB, ID, MT, UT, CO, SK, NE.  
*filiferus* Aldrich, 1907: 135, 136; unjustified emendation of *Scellus filifer* Loew.
- knowltoni** Harmston, 1939: 71. HT in USNM. Type locality: USA: UT, Monticello. DISTRIBUTION: AB, MT, UT, WY, SK [Hurley (1995)].
- monstrosus** Osten Sacken, 1877: 319. HT in MCZ. Type locality: CAN: BC. DISTRIBUTION: BC, OR, CA, NV, AB, ID, MT, UT, WY, CO, NM, SK, MB [Hurley (1995)].
- spinimanus** (Zetterstedt), 1843: 445 (*Hydrophorus*). LT designated by Hurley (1995: 187) in MZLU. Type locality: Scandinavia: Skalistugan. DISTRIBUTION: AK, NE, MB, NT, YT; Palearctic [Hurley (1995)].  
*spinipes*, error by Loew (1864b: 207) [Sabrosky (1978)].
- varipennis** Van Duzee, 1925b: 180. HT in CAS. Type locality: USA: CA, Modoc Co., Lake City. DISTRIBUTION: CA, OR [Hurley (1995)].
- vigil** Osten Sacken, 1877: 318. LT designated by Hurley (1995: 194) in MCZ. Type locality: USA: CA, Sierra Nevada, Webber Lake. DISTRIBUTION: BC, WA, OR, CA, NV, AB, ID, MT, UT, WY, CO [Hurley (1995)].
- virago** Aldrich, 1907: 133. HT in USNM. Type locality: USA: CA, Palo Alto, Stanford University. DISTRIBUTION: OR, CA, NV, ID, MT, UT, WY [Hurley (1995, personal commun.)].

### Genus THAMBEMYIA Oldroyd, 1956

- THAMBEMYIA** Oldroyd, 1956: 210. Type species: *Thambemyia pagdeni* Oldroyd [Oriental], by original designation.
- CONCHOPUS** Takagi, 1965: 49. Type species: *Conchopus rectus* Takagi, by original designation. Synonymized by Meuffels & Grootaert (1984). Listed by Bickel & Dyte (1989).
- PARAPHROSYLUS**, authors, not Becker, 1922a, misid, listed by Bickel & Dyte (1989).

NOTES: *Thambemyia* is known from the Palearctic and Oriental realms and Hawaiian Islands, but most of the species have been described from coastal Japan (Takagi, 1965).

Like *Paraphrosylus*, species of *Thambemyia* live exclusively in the intertidal zone of rocky seashores or coral reefs. The predaceous larvae live among barnacles in the littoral zone and pupate in the valves of dead barnacles (Sunose & Satô, 1994a, 1994b). *Thambemyia borealis* was probably introduced into North America by human-assisted dispersal, taking into account its recent discovery and its disjunct distribution in the Neartic (Masunaga et al. 1999).

- borealis** (Takagi), 1965: 55 (*Conchopus*). HT in EIHU. Type locality: Japan: Otaru, Hokkaido. DISTRIBUTION: CA, AL; Palearctic [Masunaga et al. (1999)]. NEW COMBINATION.

### Genus THINOPHILUS Wahlberg, 1844

- THINOPHILUS** Wahlberg, 1844: 37. Type species: *Rhaphium flavipalpe* Zetterstedt [Palearctic, Afrotropical], by monotypy.
- THINOPHILUS** Schiödte, 1844: 44. Type species: *Rhaphium flavipalpe* Zetterstedt, by monotypy; preocc. by *Thinophilus* Wahlberg, 1844.

NOTES: *Thinophilus* is known from all realms and is found mostly in coastal habitats such as shores and saltmarshes. In contrast to *Paraphrosylus* and *Thambemyia*, *Thinophilus* species are mainly found on wet sand or muddy substrates.

REFERENCES: Van Duzee (1926b; key); Robinson (1964; key, eastern U.S.).

- armiger** Van Duzee, 1926b: 43. HT in USNM. Type locality: USA: FL, Biscayne Bay. DISTRIBUTION: TX, FL, NC; MEX [Robinson (1970b)].
- bimaculatus** Johnson, 1921: 13. ST in MCZ. Type locality: USA: FL, St. Augustine, Anastasia Is., South Beach. DISTRIBUTION: FL, NC, MD.
- brevipes** Van Duzee, 1932a: 10. HT in AMNH. Type locality: USA: FL, Biscayne Bay.
- canities** Van Duzee, 1926b: 44. HT in USNM. Type locality: USA: KS, Douglas Co., 900 ft. DISTRIBUTION: NM NE, KS, IA.  
*canities*; error by Van Duzee (1926b: 36).
- delicatus** Van Duzee, 1926b: 40. HT in USNM. Type locality: USA: MT, Atherton. DISTRIBUTION: MT, MO.
- depressus** Van Duzee, 1926b: 39. HT in CAS. Type locality: MEX: Baja California, Loreto. DISTRIBUTION: UT; MEX.
- flavicaudatus** Robinson, 1964: 128. HT in USNM. Type locality: USA: TX, Port Isabel, nr Brownsville.

- frontalis** Van Duzee, 1914b: 406. HT in CAS. Type locality: USA: FL, Bradentown, Manatee River. DISTRIBUTION: LA, FL, NC.
- insulanus** Van Duzee, 1926b: 49. HT in CAS. Type locality: USA: CA, San Diego, North Is.
- latimanus** Van Duzee, 1926b: 37. HT in CAS. Type locality: USA: CO, Colorado Springs.
- magnipalpus** Van Duzee, 1926b: 45. HT in USNM. Type locality: USA: NM, Las Cruces.
- neglectus** Wheeler, 1899: 70. ST in MCZ. Type locality: USA: NJ, Cape May. DISTRIBUTION: FL, NJ.
- ochrifacies** Van Duzee, 1924a: 101. HT in MCZ. Type locality: USA: NY, Long Is., Cold Spring Harbor. DISTRIBUTION: NS to MO and FL (MS NY, MA, MD, NC); MEX [Robinson (1964, 1970b)].
- pectinifer** Wheeler, 1896a: 155. ST in AMNH. Type locality: USA: WY, 12 mi N of Lusk, Old Woman Creek. DISTRIBUTION: CA, UT, WY, CO, NE [Harmston & Rapp (1983)].
- prasinus** Johnson, 1921: 13. HT in MCZ. Type locality: USA: MA, Chatham. DISTRIBUTION: NY, NH, MA, NC, FL.
- pruinosis** Van Duzee, 1930b: 84. HT in CAS. Type locality: USA: CO, Grand Junction. DISTRIBUTION: CO, NE [Harmston & Rapp (1983)].
- rufibarbis** Van Duzee, 1926b: 48. HT in USNM. Type locality: USA: UT, Saltair, Great Salt Lake.
- russelli** Curran, 1927a: 89. HT in CNC. Type locality: CAN: NT, Nyarling River.
- scopiventris** Harmston & Knowlton, 1940e: 108. HT in CAS. Type locality: USA: CA, Newark.
- semipallidus** Robinson, 1964: 127. HT in USNM. Type locality: USA: NC, Carteret Co., narrow beaches along Lennoxville Point nr Beaufort.
- spinipes** Van Duzee, 1926b: 46. HT in CNC. Type locality: CAN: MB, Baldur. DISTRIBUTION: NV, UT, CO, NE, MB.
- thalassinus** Van Duzee, 1926b: 42. HT in USNM. Type locality: USA: FL, Biscayne Bay. *thalassinus*; error by Foote et al. (1965: 508). Type locality: USA: FL.
- vespertinus** Robinson, 1964: 129. HT in USNM. Type locality: USA: NC, Carteret Co., at Lennoxville Point nr Beaufort.
- vinculatus** Harmston & Rapp, 1968: 253. HT in CAS. Type locality: USA: NE, Antioch.
- viridifacies** Van Duzee, 1924a: 102. HT in MCZ. Type locality: USA: MA, Edgartown. DISTRIBUTION: TX, MA, NC.
- quadratus* (Van Duzee), 1924b: 28 (*Chrysotus*); preocc. by *Diaphorus quadratus* Van Duzee, 1915a, now *Chrysotus*. HT in ?MCZ. Type locality: USA: MA, Edgartown.
- nigripilosus* Van Duzee, 1926b: 44. HT in USNM. Type locality: USA: TX, Galveston.

SUBFAMILY MEDETERINAE LIOY,  
1863–1864: 766

Genus MEDETERA Fischer von  
Waldheim, 1819

**MEDETERA** Fischer von Waldheim, 1819: 7. Type species: *Medetera carnivora* Fischer von Waldheim [Palearctic], by monotypy. [= *Musca diadema* Linnaeus, 1767].

**MEDETERUS** Meigen, 1824: 59. Type species: *Medetera carnivora* Fischer von Waldheim [= *Musca diadema* Linnaeus, 1767], automatic. Unjustified emendation of *Medetera* Fischer von Waldheim.

**TAECHOBATES** Haliday, 1832: 356. Type species: *Hydrophorus jaculus* Fallén, designation by Coquillett, 1910c: 611.

**ORTHOBATES** Wahlberg, 1844: 109. Type species: *Hydrophorus jaculus* Fallén, designation by Coquillett, 1910c: 581.

**ANORTHUS** Loew, 1850: 117. Type species: *Hydrophorus jaculus* Fallén, by monotypy.

**OLIGOCHAETUS** Mik, 1878b: 7. Type species: *Medeterus plumbellus* Meigen, by original designation.

**SACCOPHERONTA** Becker, 1914: 125. Type species: *Saccopheronta nudipes* Becker, by monotypy. Listed as a subgenus of *Medetera* in Becker 1923 and Dyte and Smith (1980), but given generic status by Negrobov et al. (1981) and Grichanov (1997b).

**MEDETERIUM** Berthold, 1927, unjustified emendation listed in Negrobov (1991).

**ELONGOMEDETERA** Hollis, 1964b: 260. Type species: *Elongomedetera thoracica* Hollis, by original designation. Synonymized by Bickel (1985).

**ASIOLIGOCHAETUS** Negrobov, 1966: 877 (as subgenus). Type species: *Oligochaetus vlasovi* Stackelberg, by original designation. Synonymized by Bickel (1985); listed as a subgenus in Negrobov (1991).

**LOREA** Negrobov, 1966: 878 (as subgenus). Type species: *Oligochaetus spinigera* Stackelberg, by original designation. Synonymized by Bickel (1985); listed as a subgenus in Negrobov (1991).

NOTES: *Medetera* is known from all realms. Most species are found on tree trunks and other vertical substrates. Larvae of most species live in trees within the galleries of scolytid beetles on which they feed. Some species are associated with grasslands and



others are xerophilous and prefer dry, sandy habitats. *M. saguaroicola* is associated with rotting cactus. The common Palearctic species *M. truncorum* and *M. diadema* probably were introduced into North America through human activities.

REFERENCE: Bickel (1985; rev.).

**aberrans** Wheeler, 1899: 22; in *Saccopheronta* by Grichanov (1997b: 125). HT in AMNH. Type locality: USA: NJ, Avalon. DISTRIBUTION: MB, MN, IA, QC, ON, WI, MI, IL, TN, MS, GA, FL, OH, NY, NJ, NC [Bickel (1985); Beaulieu & Wheeler (2001)].

*lobatus* Van Duzee, 1914c: 441; synonymized by Robinson (1964). HT in ANSP. Type locality: USA: NJ, Barnegat City Junction.

*flavicosta* Van Duzee, 1932a: 11; synonymized by Bickel (1985). HT in AMNH. Type locality: USA: NY, Long Is., Cold Spring Harbor.

**aeneiventris** Van Duzee, 1933c: 152; n. name for *Medeterus aeneus* Van Duzee. Type locality: USA: CA, Los Angeles. DISTRIBUTION: CA, AZ, ON, OH, NY, NJ, MA, FL [Robinson (1964); Bickel (1985)].

*aeneus* Van Duzee, 1919a: 263; preocc. by *Medeterus aeneus* Meigen, 1838. HT in CAS. Type locality: USA: CA, Los Angeles.

*obesus* Van Duzee, 1919a: 264; preocc. by *Medetera obesa* Kowarz, 1877. HT in CAS. Type locality: USA: NY, Erie Co., East Aurora.

*univittata* Van Duzee, 1933c: 151; n. name for *Medeterus obesus* Van Duzee; synonymized by Bickel (1985). Type locality: USA: NY, Erie Co., East Aurora.

*obsoletas* Negrobov & Thuneberg, 1970: 143; n. name for *Medeterus obesus* Van Duzee; synonymized by Bickel (1985). Type locality: USA: NY, Erie Co., East Aurora.

**aequalis** Van Duzee, 1919a: 265. HT in CAS. Type locality: USA: CA, San Diego. DISTRIBUTION: CA, OR [Bickel (1985)].

**aldrichii** Wheeler, 1899: 24. HT in AMNH. Type locality: USA: ID, Moscow. DISTRIBUTION: AK, BC, WA, OR, CA, ID, AB, MT, WY, UT, AZ, CO, NM, SD; MEX [Bickel (1985)].

*oregonensis* Van Duzee, 1919a: 268; synonymized by Bickel (1985). HT in USNM. Type locality: USA: OR, Ashland.

**apicalis** (Zetterstedt), 1843: 452 (*Hydrophorus*). HT in MZLU. Type locality: Sweden: Skåne, Lund. DISTRIBUTION: AK, NT, BC, WA, OR, CA, ID, AB, UT, AZ, CO, ND, NE, KS, MB, MN, ON, IL, TN, MI, IN, OH, NY, QC, NB, NS, NF, NH, ME, MA, RI, CT, NJ, VA, NC; Palearctic [Bickel (1985); Negrobov (1991)].

*aurvittata* Wheeler, 1899: 29; synonymized by Bickel (1985). LT designated by Bickel (1985:

44) in AMNH. Type locality: USA: ID, Moscow.

*distinctus* Van Duzee, 1919a: 266; synonymized with *Medetera caerulescens* by Robinson (1964). HT in CAS. Type locality: USA: NY, Erie Co., East Aurora.

*frontalis* Van Duzee, 1919a: 265; synonymized by Bickel (1985). HT in CAS. Type locality: USA: NY, Hamburg.

*caerulescens* Malloch, 1919b: 8; synonymized by Bickel (1985). HT in INHS. Type locality: USA: IL, White Heath.

*bicolor* Van Duzee, 1923c: 249; preocc. by *Medeterus bicolor* Meigen, 1838. ST in OSU. Type locality: USA: AK, Savonoski, Naknek Lake.

*parva* Van Duzee, 1923c: 249; synonymized by Bickel (1985). ST in OSU. Type locality: USA: AK, Savonoski, Naknek Lake.

*simplicipes* Curran, 1928: 202; synonymized by Bickel (1985). HT in NYSM. Type locality: USA: NY, Nassau.

*venata* Curran, 1928: 201; name corrected from "veneta" as listed in Foote et al. (1965: 511) by Sabrosky (1971); synonymized by Bickel (1985). HT in NYSM. Type locality: USA: NY, Nassau.

*ciliata* Van Duzee, 1928a: 37; synonymized by Bickel (1985). HT in CAS. Type locality: CAN: ON, Niagara Falls.

*orbiculata* Van Duzee, 1932a: 12; synonymized by Bickel (1985). HT in AMNH. Type locality: USA: CA, Berkeley.

*albiciliata* Van Duzee, 1933b: 13; synonymized by Bickel (1985). HT in ?AMNH (missing) [according to Bickel (1985: 45)]. Type locality: CAN: ON, Arnprior.

*arctica* Van Duzee, 1933c: 152; n. name for *Medetera bicolor* Van Duzee; synonymized by Bickel (1985). Type locality: USA: AK, Savonoski, Naknek Lake.

**arnaudi** Harmston, 1951a: 12. HT in CAS. Type locality: USA: CA, Redwood City.

**bistriata** Parent, 1929a: 183. ST in MLUH. Type locality: USA: GA. DISTRIBUTION: NT, BC, CA, TX, AR, LA, MS, AL, GA, FL, ON, WI, IN, QC, ME, VA, NC; MEX, Neotropics [Bickel (1985)].

**californiensis** Wheeler, 1899: 27. LT designated by Bickel (1985: 53) in AMNH. Type locality: USA: CA, Palo Alto. DISTRIBUTION: WA, OR, CA, ID, AZ [Bickel (1985)].

*longimana* Van Duzee, 1933b: 12; synonymized by Arnaud (1963). HT in AMNH. Type locality: USA: CA, Palo Alto.

**canadensis** Bickel, 1985: 54. HT in CNC. Type locality: CAN: NB, Doaktown, Highway 8. DISTRIBUTION: MB, MN, MI, ON, NY, QC, NB, VA.

- crassivenis** Curran, 1928: 199. HT in NYSM. Type locality: USA: NY, Nassau. DISTRIBUTION: ID, UT, NY, MD [Bickel (1985)].
- idahoensis* Harmston & Knowlton, 1943a: 106; synonymized by Bickel (1985). HT in CAS. Type locality: USA: ID, Sandpoint.
- cyanogaster** Wheeler, 1899: 27. LT designated by Bickel (1985: 47) in AMNH. Type locality: USA: WA, Colfax. DISTRIBUTION: WA, CA, ID [Bickel (1985)].
- diadema** (Linnaeus), 1767: 982 (*Musca*). HT in LSUK. Type locality: Europe. DISTRIBUTION: WA, CA, NH, MA, CT, NJ, RI; Palearctic [Bickel (1985); Negrobov (1991)].
- rostrata* (Fabricius) 1775: 783 (*Musca*). ST in ZMUC (2). Type locality: Denmark: Hafniae [= Copenhagen].
- carnivora* Fischer von Waldheim, 1819: 1–11 tab. HT in ?ZIN. Type locality: not given.
- aeneivittata* (Macquart), 1827: 38 (*Hydrophorus*). ST in MNHN. Type locality: France.
- princeps* Wheeler, 1899: 25; synonymized by Bickel (1985). ST in AMNH. Type locality: USA: NJ, Farmingdale.
- ehrenbergi* Becker, 1923: 11. HT in ZMHB. Type locality: Egypt.
- dorycondylus** Bickel, 1985: 30. HT in CAS. Type locality: USA: CA, Mendocino Co., Inglenook Fen, 4 mi N of Fort Bragg. DISTRIBUTION: BC, WA, OR, CA, UT.
- exciptiens** Becker, 1922a: 133; Nearctic and Neotropical specimens probably different species. ST in NMW, ZMHB. Type localities: USA: SC; Paraguay: San Bernardino. DISTRIBUTION: SC; Neotropics (Paraguay).
- falcata** Van Duzee, 1919a: 261. HT in CAS. Type locality: USA: CA, Fresno.
- longinquus* Van Duzee, 1919a: 262; synonymized by Bickel (1985). HT in CAS. Type locality: USA: CA, Sacramento.
- flinflon** Bickel, 1985: 36. HT in CNC. Type locality: CAN: MB, Flin Flon. DISTRIBUTION: AK, BC, MB.
- furcata** Curran, 1928: 200. HT in NYSM. Type locality: USA: NY, Nassau.
- gaspensis** Bickel, 1985: 40. HT in CNC. Type locality: CAN: QC, Gaspé Co.
- halteralis** Van Duzee, 1919a: 267. HT in CAS. Type locality: CAN: ON, Brule Lake. DISTRIBUTION: ON, QC; eastern Palearctic [Bickel (1985); Negrobov (1986)].
- tarasovae* Negrobov in Negrobov & Stackelberg, 1974: 345; synonymized by Bickel (1985). HT in ZIN. Type locality: Russia: Novosibirskaya oblast, Togutschinski District, Dorf Kayrak.
- isobellae** Bickel, 1985: 22. HT in MCZ. Type locality: USA: MA, Lincoln. DISTRIBUTION: LA, NH, MA, VA, FL.
- longinervis** Van Duzee, 1928a: 36. HT in CAS. Type locality: USA: OR, Olney. DISTRIBUTION: WA, OR, CA [Bickel (1985)].
- marylandica** Robinson, 1967a: 124. HT in USNM. Type locality: USA: MD, Montgomery Co., Bethesda.
- maura** Wheeler, 1899: 23. ST in AMNH. Type locality: USA: NH, Mt. Washington. DISTRIBUTION: AK NT, QC, VT, NH, MA, NC [Bickel (1985)].
- modesta** Van Duzee, 1914c: 440. HT in ANSP. Type locality: USA: NJ, Avon. DISTRIBUTION: ON, ME, NJ, GA, FL [Bickel (1985)].
- neomelancholia** Bickel, 1985: 41. HT in CNC. Type locality: CAN: ON, Kirkwood Twp., Algonoma District.
- nigripes** Loew, 1861a: 73. HT in MCZ. Type locality: USA: “Middle States”. DISTRIBUTION: BC, IA, ON to NS, s. to FL (MI, NY, NB, MA, NH) [Robinson (1964); Bickel (1985)].
- nova** Van Duzee, 1919a: 262. HT in CAS. Type locality: USA: VA, Great Falls. DISTRIBUTION: IL, TN, IN, MI, QC, NY, NH, MA, NJ, MD, VA, NC, SC, GA [Robinson (1964); Bickel (1985)].
- petulca** Wheeler, 1899: 21. HT in AMNH. Type locality: USA: WA, Colfax. DISTRIBUTION: BC, WA, OR, CA, WY [Bickel (1985)].
- nitidiventris* Van Duzee, 1919a: 264; synonymized by Bickel (1985). HT in CAS. Type locality: USA: CA, San Francisco.
- physothrix** Bickel, 1985: 27. HT in CAS. Type locality: USA: WA, Okanogan Co., 7 mi SE of Wauconda, 900–1025 m. DISTRIBUTION: WA, CA, ID.
- pinicola** Kowarz, 1877: 61. LT designated by Bickel (1985: 39) in UMO. Type locality: Austria: Ramsau. DISTRIBUTION: BC, WA, ID, AZ, ON, QC, ME, NH, RI, NJ, MD, NC, GA; Palearctic [Bickel (1985); Negrobov (1991)].
- platythrix** Bickel, 1985: 26. HT in CNC. Type locality: USA: CO, 5 mi S of Boulder, 5800 ft. DISTRIBUTION: BC, WA, CA, MT, CO.
- postminima** Steyskal, 1967: 224; n. name for *Medetera minima* Van Duzee. Type locality: USA: CA, Felton, St. Cruz Mts. DISTRIBUTION: CA, ?AK [Bickel (1985)].
- minima* Van Duzee, 1925e: 180; preocc. by *Medetera minima* de Meijere, 1916. HT in CUIC. Type locality: USA: CA, Felton, St. Cruz Mts.
- potomac** Bickel, 1985: 24. HT in USNM. Type locality: USA: DC, Washington, Roosevelt Is. DISTRIBUTION: IL, MD, DC, VA, NC.
- pseudosibirica** Bickel, 1985: 45. HT in CNC.

- Type locality: CAN: BC, Invermere. DISTRIBUTION: BC, QC.
- saguaroicola** Bickel, 1985: 45. HT in CAS. Type locality: USA: AZ, Pima Co., Saguaro National Monument. DISTRIBUTION: AZ; MEX.
- signaticornis** Loew, 1857b: 51. HT in ZMHB. Type locality: ?Germany. DISTRIBUTION: AK, YT, NT, BC, WA, OR, ID, AB, WY, MB, ON, MI, IN, QC, NY, PA, NB, ME, PEI; Palearctic [Bickel (1985); Negrobov (1991)].
- viridifacies* Van Duzee, 1923c: 248; synonymized by Bickel (1985). HT in OSU. Type locality: USA: AK, Savonoski, Naknek Lake.
- trisetosa* Van Duzee, 1924c: 246; synonymized by Bickel (1985). ST in CNC (2). Type locality: CAN: AB, Banff.
- vanduzeei* Curran, 1928: 203; synonymized by Bickel (1985). HT in CNC. Type locality: CAN: QC, Aylmer.
- similis** Van Duzee, 1919a: 261. HT in CAS. Type locality: USA: CA, Los Angeles [Bickel (1985)].
- cuneiformis* Van Duzee, 1919a: 263; synonymized by Bickel (1985). HT in CAS. Type locality: USA: CA, Los Angeles.
- subsignaticornis** Bickel, 1985: 35. HT in USNM. Type locality: USA: NH, Bethlehem.
- truncorum** Meigen, 1824: 67. HT in MNHN. Type locality: Germany: Hamburg region. DISTRIBUTION: BC, WA, OR; Palearctic [Bickel (1985); Negrobov (1991)].
- tuktoyaktuk** Bickel, 1985: 53. HT in CNC. Type locality: CAN: NT, 20 mi E of Tuktoyaktuk, Mackenzie Delta.
- utahensis** Bickel, 1985: 28. HT in CAS. Type locality: USA: UT, Cache Co., W. Hodges Canyon.
- veles** Loew, 1861a: 73. HT in MCZ. Type locality: USA: FL. DISTRIBUTION: throughout Canada and U.S., Bermuda; MEX, Palearctic [Bickel (1985); Woodley & Hilburn (1994)].
- appendiculatus* Wheeler, 1899: 29; preocc. by *Medeterus appendiculatus* Macquart, 1827, now *Sybistroma*. HT in AMNH. Type locality: USA: WY, Lance Creek.
- bilineata* Frey, 1915: 52; synonymized by Bickel (1985). ST in MZHF. Type localities: Finland: Karislojo; Sammatti; Pyhäjärvi; Messuby; Systemä; Muonio; Enonteris; Palmen; Kantalaks.
- albasetosa* Van Duzee, 1928a: 36; synonymized by Bickel (1985). HT in SEMC. Type locality: USA: TX, Galveston.
- intermedia* Van Duzee, 1928b: 40; synonymized by Bickel (1985). HT in CNC. Type locality: CAN: SK, Fort à la Conne.
- wheeleri* Foote et al., 1965: 511; n. name for *Medeterus appendiculatus*; synonymized by Bickel (1985). Type locality: USA: WY, Lance Creek.
- sphaeropyga* Negrobov in Negrobov & Stackelberg, 1974: 340; synonymized by Bickel (1985). HT in ZIN. Type locality: Russia: Maritime Territory, Ussuri Region, Ugodzina River, Road Spassk-Jakovlevka.
- vidua** Wheeler, 1899: 24. HT in AMNH. Type locality: USA: WA, Olympia. DISTRIBUTION: AK, YT, NT, BC, WA, OR, ID, ON, NY, ME, NS, NB, NF [Bickel (1985)].
- emarginata* Van Duzee, 1914c: 439; synonymized by Bickel (1985). HT in CAS. Type locality: CAN: ON, Kearney.
- vittata** Van Duzee, 1919a: 268. HT in CAS. Type locality: CAN: ON, Kearney. DISTRIBUTION: WA, AB, MT, MB, MN, IA, KS, OK, AR, MO, WI, IL, TN, IN, MI, OH, ON, QC, NY, PA, MA, NH, ME, NS, NB, VA, WV, NC, GA [Bickel (1985); O'Neill (2001)].
- vockerothi** Bickel, 1985: 32; in *Saccopheronta* by Grichanov (1997b: 125). HT in CNC. Type locality: CAN: QC, Beechgrove. DISTRIBUTION: BC, NT, AB, CO, MB, MN, ON, MI, OH, NY, QC, VT, ME, MA.
- walschaertsi** Gosseries, 1988: 306; n. name for *Medetera alpina* Harmston & Knowlton. Type locality: USA: CA, Alpine.
- alpina* Harmston & Knowlton, 1941b: 95; preocc. by *Medeterus alpinus* Haliday, 1833, now *Campsicnemus*. HT in SEMC. Type locality: USA: CA, Alpine.
- xerophila** Wheeler, 1899: 28. LT designated by Bickel (1985: 29) in AMNH. Type locality: USA: CA, Monterey Co., Pacific Grove.
- obscuripennis* Van Duzee, 1919a: 266; synonymized by Bickel (1985). HT in ANSP. Type locality: USA: CA, Alameda Co., on Berkeley Hills.

### Genus **SYSTEMUS** Loew, 1857a

**SYSTEMUS** Loew, 1857a: 34. Type species: *Rhaphium adpropinquans* Loew [Palearctic], designation by Foote et al., 1965: 517. [= *palipes* (Roser), 1840]; listed in Rhaphiinae by Foote et al. (1965).

NOTES: *Systemus* is known from the Holarctic, Neotropics, and Australia. Most species have not been captured in the wild as adults, but reared from larvae found in moist tree holes, ulcerated or decaying wood, and sap runs.

REFERENCES: Wirth (1952; rev.); Steyskal (1970).

**albimanus** Wirth, 1952: 240. HT in USNM. Type

localities: USA: VA, Falls Church. DISTRIBUTION: TX, AL, TN, VA.

**apicalis** Wirth, 1952: 237. HT in USNM. Type locality: USA: VA, Falls Church. DISTRIBUTION: AL, VA, MD.

**californicus** Harmston, 1968: 16. HT in CAS. Type locality: USA: CA, Marin Co., Mill Valley.

**eucercus** Steyskal, 1970: 107. HT in ?USNM. Type locality: USA: CT, Manchester. DISTRIBUTION: ON, CT [Vockeroth (personal commun.)].

**minutus** (Van Duzee), 1913b: 60 (*Neurigona*). HT in USNM. Type locality: USA: PA, Philadelphia. DISTRIBUTION: KY, TN, AL, PA.

**shannoni** Wirth, 1952: 240. HT in USNM. Type locality: USA: MD, Potomac River, Plummer's Is. DISTRIBUTION: ON, NH, MD [Vockeroth (personal commun.)].

### Genus **THRYPTICUS** Gerstäcker, 1864

**THRYPTICUS** Gerstäcker, 1864: 43. Type species: *Thrypticus smaragdinus* Gerstäcker [Palearctic], by monotypy.

**APHANTOTIMUS** Wheeler, 1890: 375. Type species: *Aphantotimus willistoni* Wheeler, designation by Coquillett, 1910c: 508.

**XANTHOTRICHA** Aldrich, 1896b: 339. Type species: *Xanthotricha cupulifera* Aldrich, designation by Robinson, 1970b: 21.

**SUBMEDETERUS** Becker, 1917–1918: 360. Type species: *Submedeterus cuneatus* Becker, by monotypy.

NOTES: *Thrypticus* occurs in all realms and is well represented in the New World. The Nearctic fauna is comprised of small species occurring on herbaceous vegetation on stream banks and margins. Larval stages of *Thrypticus* are phytophagous and feed as miners of Cyperaceae, Poaceae, Juncaceae, and Pontederiaceae (Dyte, 1993).

REFERENCES: Van Duzee (1921b; key); Parent (1929a; key); Robinson (1964; key, eastern North America).

**abdominalis** (Say), 1829–1830: 169 (also in LeConte, 1859: 362) (*Chrysotus*). ST destroyed. Type locality: USA: IN. DISTRIBUTION: KS to IN, MI, and PA, s. to LA, and NC; Neotropics [Robinson (1970b)].

*cupulifer* (Aldrich), 1896b: 339 (*Xanthotrichia*). ST in SEMC (3). Type locality: St. Vincent Is.

**aurinotatus** Van Duzee, 1915c: 87. HT in CUIC. Type locality: USA: GA, Okefenokee Swamp, Billy's Is.

**comosus** Van Duzee, 1915c: 86. HT in CUIC.

Type locality: USA: NY, Ellis; CAN: ON, Toronto. DISTRIBUTION: MI, ON, NY.

**deficiens** Robinson, 1980: 469. HT in USNM. Type locality: USA: MD, Prince Georges Co., Patuxent Wildlife Refuge.

**dissectus** Robinson, 1964: 118. HT in CNC. Type locality: USA: NC, Franklin, ca. 2000 ft.

**fosteri** Robinson, 1980: 470. HT in USNM. Type locality: USA: MD, Prince Georges Co., Patuxent Wildlife Refuge.

**fraterculus** (Wheeler), 1890: 376 (*Aphantotimus*). ST in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: AK, MN to ON and MA, s. to CA, TN, and FL (UT, WY, CO, AZ, NE, TX, IA, WI, VA, NC, NS), Bermuda; MEX, Neotropics, Palearctic (Siberia) [Robinson (1970b); Harmston & Rapp (1983); Bissett (1987); Woodley & Hilburn (1994); Bickel (personal commun.); Robinson (personal commun.)].

**grogani** Robinson, 1980: 472. HT in USNM. Type locality: USA: MD, Prince Georges Co., Patuxent Wildlife Refuge. DISTRIBUTION: MD, VA [Robinson (personal commun.)].

**longicauda** Van Duzee, 1921b: 126. HT in CAS. Type locality: USA: CA, San Francisco.

**minutus** Parent, 1929a: 186. HT in MLUH. Type locality: USA: TX. DISTRIBUTION: CA, TX, PA; MEX, Neotropics (West Indies) [Robinson (1964; 1975); Dyte (1993)].

*insulanus* Van Duzee, 1933b: 14; synonymized by Dyte (1993). HT in AMNH. Type locality: St. Lucia, Windward Is.

*insularis*; error by Bennet (1968).

**muhlenbergiae** Johannsen & Crosby, 1913: 164. ST in CUIC, USNM (1). Type locality: USA: NY, Ithaca, Cornell University Campus, Cascadilla Creek. DISTRIBUTION: CO, TX, MO, TN, ON, OH, NY, QC, MD, NC, GA [Bickel (personal commun.)].

**nigripes** Van Duzee, 1921b: 125. HT in CAS. Type locality: USA: NV, Wells. DISTRIBUTION: CA, NV, UT, CO [Bickel (personal commun.)].

**squamiciliatus** Harmston & Rapp, 1968: 250. HT in CAS. Type locality: USA: NE, Crawford.

**tectus** Van Duzee, 1915c: 87. HT in CAS. Type locality: USA: NY, Erie Co., East Aurora. DISTRIBUTION: IA, ON, QC to CT, s. to GA (IL, IN, KY, NY, PA, DC, VA, NC) [Robinson (1964); Bickel (personal commun.)].

**vietus** Van Duzee, 1915c: 86. HT in CAS. Type locality: USA: FL, Bradentown.

**violaceus** Van Duzee, 1927e: 5. HT in AMNH. Type locality: Puerto Rico: Arecibo. DISTRIBUTION: TX, NC, FL; Neotropics (West Indies) [Robinson (1970b); Bickel (personal commun.)].

*setosus* Robinson, 1964: 118; listed as synonym

by Robinson (1970b). HT in FSCA. Type locality: USA: FL, Gainesville [Robinson (1964, 1970b)].

**willistoni** (Wheeler), 1890: 376 (*Aphantotimus*). ST in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: BC, WY, MB, IA, WI, ON, QC, PA, NB, MA, and NS, s. to TN, MO, and NC; ?Neotropics [Robinson (1970b); Bickel (personal commun.)].

#### SUBFAMILY NEURIGONINAE ALDRICH, 1905: 293

#### Genus DACTYLOMYIA Aldrich, 1894

**DACTYLOMYIA** Aldrich, 1894: 151. Type species: *Dactylomyia gracilipes* Aldrich [Nearctic], by monotypy [= *lateralis* (Say), 1829–1830]; listed as synonym of *Neurigona* by Foote et al. (1965) and Robinson (1970b); given generic status by Bickel (1998b).

**COELINIUM** Parent, 1939: 148. Type species: *Coelinium bicolor* Parent, by original designation [= *Dactylomyia parenti* Naglis, 2002]. Synonymized by Bickel (1998b).

NOTES: *Dactylomyia* is known from eastern North America, Central America, the Lesser Antilles, and Hawaiian Islands.

REFERENCE: Naglis (2002; key to world species).

**lateralis** (Say), 1829–1830: 169 (also in LeConte, 1859: 362) (*Medeterus*); listed under *Neurigona* in Foote et al. (1965) and Poole (1996). NT designated by Naglis (2002: 490, 492) in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: CO, NE, SD, MB, IA, ON, IL, IN, MI, QC, NH, MA, DC, NC, FL [Robinson (1964); Harmston & Rapp (1983); Vockeroth (personal commun.)].

*superbiens* (Loew), 1861a: 76 (*Saucropus*). ST in MCZ. Type locality: USA: FL.

*gracilipes* Aldrich, 1894: 151; listed under *Neurigona* in Foote et al. (1965) and Poole (1996). ST in USNM (5), SEMC (4). Type locality: USA: SD, Brookings; FL [Bickel (1998b)].

#### Genus NEURIGONA Rondani, 1856

**NEURIGONA** Rondani, 1856: 142. Type species: *Musca quadrifasciata* Fabricius [Palearctic], by original designation.

**SAUCROPUS** Loew, 1857a: 41. Type species: *Musca quadrifasciata* Fabricius, automatic. Unjustified n. name for *Neurigona* Rondani, 1856.

**NEUROGONA** Oldenberg, 1904: 80. Type species: *Musca quadrifasciata* Fabricius, automatic. Unjustified emendation.

**NEUROGONIA**, error by Van Duzee (1925e: 179).

**NEUROGONUS**, error listed in Bickel & Dyte (1989).

NOTES: *Neurigona* is known from all realms and like many members of the Sciapodinae and Medeterinae, occurs on tree trunks and low vegetation. The Nearctic *Neurigona* fauna is very diverse compared to that of the Palearctic and Neotropics, although the latter undoubtedly contains a large number of undescribed species (Naglis, 2003b).

REFERENCES: Van Duzee (1913b; rev.); Robinson (1964; key, eastern U.S.).

**aestiva** Van Duzee, 1913b: 50. HT in CAS. Type locality: USA: NY, Lancaster. DISTRIBUTION: IA, ON, MI, NY, VT, MD, DC [Robinson (personal commun.)].

**albospinosa** Van Duzee, 1913b: 59. ST in USNM (11), CAS (3). Type localities: USA: WA, Wenatchee; CA, Stanford University; ID, Lewiston and Julietta. DISTRIBUTION: BC, WA, CA, ID.

**aldrichii** Van Duzee, 1913b: 40. ST in USNM (6), CAS (1). Type locality: USA: KS, Lawrence. DISTRIBUTION: NE, KS, IA, MI, NY [Harmston & Rapp (1983)].

**arcuata** Van Duzee, 1913b: 45. LT designated by Arnaud (1979: 271) in CAS. Type locality: USA: NY, East Aurora. DISTRIBUTION: ON, MI, TN, NY, NS [Bissett (1987)].

**australis** Van Duzee, 1913b: 59. HT in ANSP. Type locality: USA: NM, Cloudcroft.

**bivittata** Van Duzee, 1913b: 51. HT in USNM. Type locality: USA: CO. DISTRIBUTION: BC, CO.

**californica** Harmston, 1972: 154. HT in CAS. Type locality: USA: CA, Santa Cruz Co., Greyhound Rock.

**carbonifer** (Loew), 1869b: 177 (Cent. 9, no. 84) (*Saucropus*). HT in MCZ. Type locality: USA: NY. DISTRIBUTION: NE and MN to QC, s. to SC (IA, TN, MI, NY, PA, NH, MA, RI, NJ, VA, NC) [Robinson (1964); Harmston & Rapp (1983)].

**ciliata** Van Duzee, 1913b: 56. HT in USNM. Type locality: USA: WA, Doe Bay.

**cilimanus** Van Duzee, 1924c: 245. HT in CNC. Type locality: CAN: MB, Aweme.

**deformis** Van Duzee, 1913b: 46. LT designated by Arnaud (1979: 271) in CAS. Type locality: USA: NY, Little Valley. DISTRIBUTION: ON, NY, NH, ME.

**dimidiata** (Loew), 1861a: 75 (*Saucropus*). HT in MCZ. Type locality: USA: FL. DISTRIBUTION:

- NH, VT, s. to FL (TN, DC, VA) [Robinson (1964)].
- disjuncta** Van Duzee, 1913b: 42. LT designated by Arnaud (1979: 272) in CAS. Type locality: USA: NY, East Aurora. DISTRIBUTION: IA to ON and NS, s. to GA (MI, NY, VT, VA, NC) [Robinson (1964); Bissett (1987)].
- flava** Van Duzee, 1913b: 40. HT in USNM. Type locality: USA: ID, Lewiston. DISTRIBUTION: WA, OR, ID, UT [Turner (1987)].
- uinta** Harmston & Knowlton, 1942b: 80; synonymized by Turner (1987). HT in USNM. Type locality: USA: UT, Uintah Co., White Rocks Canyon.
- floridula** Wheeler, 1899: 72. ST in AMNH. Type localities: USA: IL, Riverside; NJ, Dover; MD, Grant Falls. DISTRIBUTION: WI to ME, s. to NC (ON, MI, OH, NY, PA, VT, NH, MA, NJ, DE, MD, VA) [Robinson (1964)].
- infuscata** Van Duzee, 1913b: 39; listed as a variety by Foote et al. (1965). LT designated by Arnaud (1979: 272) in CAS. Type locality: USA: NY, Little Valley [Poole (1996)].
- fuscularis** Harmston, 1968: 26. HT in CAS. Type locality: USA: AZ, Santa Catalina Mts.
- georgianus** Harmston & Knowlton, 1963: 234. HT in USNM. Type locality: USA: GA, Atlanta.
- lienesa** Wheeler, 1899: 73. HT in AMNH. Type locality: USA: CA, Monterey.
- maculata** Van Duzee, 1913b: 36. LT designated by Arnaud (1979: 273) in CAS. Type locality: USA: NY, Little Valley. DISTRIBUTION: WI to QC and NS, s. to NC (MI, NY, PA, NH, MA, NC) [Bissett (1987)].
- nigrimanus** Van Duzee, 1930c: 70. HT in USNM. Type locality: CAN: AB, Banff.
- nigritibialis** Robinson, 1964: 115. HT in USNM. Type locality: USA: TN, Knoxville, Tyson Park.
- nitida** Van Duzee, 1913b: 33. ST in USNM (4). Type localities: USA: WI, Polk Co.; NH, Franconia. DISTRIBUTION: WI, VT, ME, NH.
- ornata** Van Duzee, 1930c: 55. HT in USNM. Type locality: CAN: AB, Edmonton.
- pectoralis** Van Duzee, 1913b: 49. ST in USNM (3), CAS (1). Type localities: USA: NM, Las Vegas; White Mountains, 6500 ft. DISTRIBUTION: NM, ?ON.
- perbrevis** Van Duzee, 1913b: 57. HT in ANSP. Type locality: USA: NM, Alamogordo.
- perplexa** Van Duzee, 1913b: 29. ST in USNM (1). Type localities: USA: PA, Lehigh Gap; ME, Capens. DISTRIBUTION: MI, PA, NH, ME.
- planipes** Van Duzee, 1924c: 245. HT in CNC. Type locality: CAN: AB, Waterton. DISTRIBUTION: BC, AB.
- rubella** (Loew), 1861a: 76 (*Saucropus*). ST in MCZ. Type locality: USA: VA. DISTRIBUTION: NE and IA to NH, s. to KS and SC (NY, PA, MA, CT, NJ, DC, VA, NC) [Robinson (1964, personal commun.); Harmston & Rapp (1983)].
- scutitarsis** Robinson in Steyskal & Robinson, 1970: 449. HT in USNM. Type locality: USA: MD, Prince Georges Co., nr Laurel, Patuxent Wildlife Refuge.
- smithi** Robinson in Steyskal & Robinson, 1970: 452. HT in USNM. Type locality: USA: MD, Prince Georges Co., nr Laurel, Patuxent Wildlife Refuge. DISTRIBUTION: MD, DC [Robinson (personal commun.)].
- spiculifera** Robinson in Steyskal & Robinson, 1970: 451. HT in USNM. Type locality: USA: MD, Prince Georges Co., nr Laurel, Patuxent Wildlife Refuge.
- tarsalis** Van Duzee, 1913b: 51. LT designated by Arnaud (1979: 274) in CAS. Type locality: USA: NY, East Aurora. DISTRIBUTION: MI to VT, s. to DC and NC [Robinson (personal commun.)].
- tenuis** (Loew), 1864b: 228 (*Saucropus*). HT in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: MO, MI, NY, MA to NC, ?NM [Robinson (1964)].
- terminalis** Van Duzee, 1924c: 244. HT in CNC. Type locality: CAN: BC, Keremeos.
- torrida** Harmston, 1951a: 14. HT in CAS. Type locality: USA: CA, Indio.
- transversa** Van Duzee, 1913b: 41. ST in USNM (2). Type locality: USA: CA, Mono Lake.
- tridens** Van Duzee, 1913b: 34. HT in USNM. Type locality: USA: WA (as Idaho, error), Orcas Is., Mt. Constitution. DISTRIBUTION: WA, BC.
- valgusa** Harmston & Rapp, 1968: 248. HT in CAS. Type locality: USA: NE, Creighton.
- zionensis** Harmston & Knowlton, 1942b: 81. HT in USNM. Type locality: USA: UT, Zion Canyon.

### Genus *VIRIDIGONA* Naglis, 2003a

**VIRIDIGONA** Naglis, 2003a: 564. Type species: *Neurigona viridis* Van Duzee [Nearctic], by original designation.

NOTES: *Viridigona* is primarily distributed in the Neotropics. Only 1 of the 28 recently recognized species occurs in the eastern United States.

REFERENCES: Naglis (2003a; rev.; key, Neotropics).

**viridis** (Van Duzee), 1913b: 43 (*Neurigona*); comb. by Naglis (2003a). LT designated by Arnaud (1979: 274) in CAS. Type locality: USA:

NY, South Wales. DISTRIBUTION: TN, NY, NH, VA.

SUBFAMILY PELOROPEODINAE  
ROBINSON, 1970a: 56

**Genus CHRYSOTIMUS Loew, 1857a**

**CHRYSOTIMUS** Loew, 1857a: 48. Type species: *Chrysotimus pusio* Loew [Nearctic], designation by Coquillett, 1910c: 524. Listed in Sympycninae by Foote et al. (1965).

NOTES: *Chrysotimus* is known from all realms except the Afrotropical. Despite its wide distribution, this genus comprises only a small number of species. *Chrysotimus* is most diverse in southern temperate forests of Australia, New Zealand, and Patagonia, where it is often abundant. Many species await description from these regions. Species of *Chrysotimus* are generally found on vegetation, especially on broad-leaved trees.

REFERENCES: Curran (1923c; key); Robinson (1964; key, North America north of Mexico).

**arizonicus** Robinson, 1967a: 125. HT in USNM. Type locality: USA: AZ, Grand Canyon National Park (north rim).

**delicatus** Loew, 1861a: 74. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: ON to ME, s. to GA (NY, VA, NC, TN) [Robinson (1964)].

**flavicornis** Van Duzee, 1916a: 24. HT in USNM. Type locality: USA: NY, Long Is., Richmond Hill. DISTRIBUTION: UT, WI, NY, SC.

**luteopalpus** Curran, 1923c: 190. HT in CNC. Type locality: CAN: MB, Aweme. DISTRIBUTION: WI, MB [Robinson (1964)].

**luteus** Curran, 1930b: 52. HT in ?AMNH. Type locality: USA: NY, Tuxedo, Harriman Interstate Park. DISTRIBUTION: NY, MD, SC, GA.

**occidentalis** Harmston, 1951b: 109. HT in SEMC. Type locality: USA: AZ, Huachuca Mts., Sunnyside Canyon.

**pusio** Loew, 1861a: 74. HT in MCZ. Type locality: USA: NY. DISTRIBUTION: NY, NC, VA [Robinson (1964)].

**Genus MICROMORPHUS Mik, 1878b**

**MICROMORPHUS** Mik, 1878b: 6. Type species: *Hydrophorus albipes* Zetterstedt [all zoogeographical regions], by original designation. Listed in Sympycninae by Foote et al. (1965).

NOTES: *Micromorphus* is known from all realms. Species of *Micromorphus* are hy-

grophilous and occur in marshlands, salt-marshes, and along river banks.

REFERENCE: Robinson (1964; key, eastern North America).

**albipes** (Zetterstedt), 1843: 454 (*Hydrophorus*). ST in MZLU. Type localities: Sweden: Ostrogothia; Lärketorp. DISTRIBUTION: MD, SC, FL; MEX, Neotropics, Palearctic, Oriental, North Africa, New Zealand [Robinson (1964; 1975); Dye (1975); Bickel & Dye (1989)].

**caudatus** (Aldrich), 1902: 93 (*Achalculus*); synonymized by Robinson (1975). ST in ?BMNH. Type locality: Grenada Is.

**panamensis** Van Duzee, 1931a: 180. HT in AMNH. Type locality: Panama: Corozal [Robinson (1970b)].

**bifrons** Robinson, 1964: 121. HT in USNM. Type locality: USA: IA, 4 mi E of Gilbert.

**fulvovosetosus** Parent, 1929a: 193. HT in MLUH. Type locality: USA: TX. DISTRIBUTION: TX, FL, MD, SC; MEX [Robinson (1970b)].

**knowltoni** Robinson, 1967b: 331. HT in USNM. Type locality: USA: UT, Clear Creek Canyon. DISTRIBUTION: UT, TX [Bickel (personal commun.)].

**leucostoma** Robinson, 1967b: 330. HT in USNM. Type locality: USA: WA, Grant Co., O'Sullivan Dam.

**longilamellatus** Robinson, 1964: 122. HT in CNC. Type locality: USA: GA, Rabun Co., Warwoman Creek. DISTRIBUTION: TN, GA, NC.

**minimus** (Van Duzee), 1925e: 179 (*Neurigona*). HT in CUIC. Type locality: USA: NY, Ithaca. DISTRIBUTION: ON, NY, QC [Vockeroth (personal commun.)].

**Genus NANOMYINA Robinson, 1964**

**NANOMYINA** Robinson, 1964: 119. Type species: *Nanomyina litorea* Robinson [Nearctic, Neotropical], by original designation. [= *barbata* (Aldrich), 1902].

**barbata** (Aldrich), 1902: 91 (*Chrysotimus*); comb. by Robinson (1970b). ST in ?BMNH. Type locality: Grenada Is. DISTRIBUTION: east coast of U.S. (NC, MA, CT), Bermuda; Neotropics [Robinson (1964, 1970b); Woodley & Hilburn (1994); Vockeroth (personal commun.)].

**litorea** Robinson, 1964: 119; synonymized by Robinson (1970b). HT in USNM. Type locality: USA: NC, Carteret Co., Lennoxville Point nr Beaufort [Robinson (1970b)].

**Genus NEPALOMYIA Hollis, 1964a**

**NEPALOMYIA** Hollis, 1964a: 110. Type species: *Nepalomyia dytei* Hollis [Palearctic], by original designation.

*NEURIGONELLA* Robinson, 1964: 119. Type species: *Neurigona nigricornis* Van Duzee [Nearctic], by original designation. Synonymized by Runyon & Hurley (2003).

NOTES: *Nepalomyia* includes 27 species reported from the Holarctic and Oriental realms (Yang & Saigusa, 2001b). Adults seem to be hygrophilous and prefer shaded habitats with seepages on moss-covered rocks (Runyon & Hurley, 2003).

REFERENCE: Runyon & Hurley (2003: rev.; key, North America).

**dilaticosta** Runyon & Hurley, 2003: 410. HT in CNC. Type locality: CAN: ON, Ottawa. DISTRIBUTION: ON, NY.

**hesperia** Runyon & Hurley, 2003: 410. HT in CAS. Type locality: USA: CA, Humboldt Co., McKinleyville. DISTRIBUTION: CA, OR.

**nigricornis** (Van Duzee), 1914c: 433 (*Neurigona*). HT in CAS. Type locality: USA: NY, Erie Co., Colden. DISTRIBUTION: ON, QC, AR, TN, KY, OH, NY, MA, CT, PA, WV, VA, NC, SC, GA, FL [Robinson (1964); Runyon & Hurley (2003); Vockeroth (personal commun.)].

**sombrea** (Harmston & Knowlton), 1945: 77 (*Neurigona*). HT in USNM. Type locality: USA: MI, Midland Co. DISTRIBUTION: NM, MI, IN, KY, TN, PA, VA, NC, GA [Robinson (1964); Runyon & Hurley (2003); Vockeroth (personal commun.)].

### Genus PELOROPEODES Wheeler, 1890

**PELOROPEODES** Wheeler, 1890: 373. Type species: *Peloropeodes salax* Wheeler [Nearctic], by monotypy. Listed in Rhapsiinae by Foote et al. (1965).

*ANOMALOPYGA* Oldenberg, 1916: 187. Type species: *Anomalopyga acuticornis* Oldenberg, by monotypy. Synonymized by Robinson (1970b).

*KOPHOSOMA* Van Duzee, 1926a: 39. Type species: *Sympycnus falco* Aldrich, by original designation.

*PACHYPYGA* Parent, 1928: 173. Type species: *Pachypyga costaericae* Parent, by monotypy.

*NEORHAPHIUM* Botosaneanu & Vaillant, 1973: 418. Type species: *Neorhaphium spinitarse* Botosaneanu & Vaillant, by monotypy. Synonymized by Robinson (1975).

NOTES: *Peloropeodes* is known from the Palaearctic, Nearctic, Neotropical, and Afro-tropical realms. Adults are found on low herbaceous vegetation, moist soil, and on rock surfaces near or on stream banks.

REFERENCES: Van Duzee (1926a; as *Kophosoma*); Robinson (1964; key, southeastern U.S.).

**aldrichi** Robinson, 1970b: 26; n. name for *Peloropeodes acuticornis* (Van Duzee). Type locality: USA: IN, Lafayette. DISTRIBUTION: UT to ON to DC, s. to GA (NE, IA, IN, MI, NY, VA, NC, SC); MEX [Robinson (1964, 1970b); Vockeroth (personal commun.)].

*acuticornis* (Van Duzee), 1926a: 44 (*Kophosoma*); preocc. by *Anomalopyga acuticornis* Oldenberg, 1916, now *Peloropeodes*. HT in USNM. Type locality: USA: IN, Lafayette.

**apicalis** Harmston & Knowlton, 1946c: 139; name corrected from *apicales* by Sabrosky (1978). HT in USNM. Type locality: USA: ID, Coeur d'Alene.

**bicolor** (Van Duzee), 1926a: 41 (*Kophosoma*). HT in ANSP. Type locality: USA: PA, Swarthmore. DISTRIBUTION: IA to PA, s. to SC (IN, TN, NC) [Robinson (1964)].

**brevis** (Van Duzee), 1926a: 45 (*Kophosoma*). HT in CAS. Type locality: USA: NY, East Aurora. DISTRIBUTION: ON to NS and CT, s. to NE and GA (TN, NY, PA, NJ, VA, DC, NC, SC) [Robinson (1964); Harmston & Rapp (1983); Bissett (1987)].

*crassitibia* (Van Duzee), 1930a: 1 (*Campsicnemus*). HT in AMNH. Type locality: USA: CT, Avon, Avon Old Farms.

**cornutus** (Van Duzee), 1926a: 42 (*Kophosoma*). HT in CAS. Type locality: USA: CA, Los Angeles; Fresno. DISTRIBUTION: BC, WA, CA, OR, ID, NE, MI; MEX [Harmston & Rapp (1983); Turner (1987); Vockeroth (personal commun.)].

**discolor** Robinson, 1964: 126; n. name for *Peloropeodes frater* Robinson. Type locality: USA: NC, Durham, Duke Gardens.

*frater* Robinson, 1960: 271; preocc. by *Sympycnus frater* Aldrich, 1902, now *Peloropeodes*. HT in ?USNM (Robinson collection). Type locality: USA: NC, Durham, Duke Gardens.

**fuscipes** (Van Duzee), 1926a: 40 (*Kophosoma*). HT in ANSP. Type locality: USA: NM, Alamogordo. DISTRIBUTION: ID, NM; MEX.

**magnicornis** Harmston & Rapp, 1968: 248. HT in CAS. Type locality: USA: NE, Plymouth.

**pygidus** Harmston & Rapp, 1968: 249. HT in CAS. Type locality: USA: NE, Mills.

**salax** Wheeler, 1890: 374. ST in AMNH. Type locality: USA: WI, Milwaukee Co. DISTRIBUTION: WI to VA, s. to TN and NC [Robinson (1964)].

*flavipes* Van Duzee, 1914c: 437. HT in MCZ. Type locality: USA: VA, Falls Church.



SUBFAMILY PLAGIONEURINAE  
ALDRICH, 1905: 298

**Genus PLAGIONEURUS Loew, 1857b**

**PLAGIONEURUS** Loew, 1857b: 43. Type species: *Plagioneurus univittatus* Loew [Nearctic, Neotropical], by monotypy.

**univittatus** Loew, 1857b: 43. HT in MCZ. Type locality: Cuba. DISTRIBUTION: SD, ON, and MI to MA, s. to MS and FL (KS, IA, IL, LA, AL, GA, PA, VA, NJ, NC, SC); Neotropics [Robinson (1964); Bickel (personal commun.); Vockeroth (personal commun.)].

SUBFAMILY RHAPHIINAE BIGOT,  
1852: 482

**Genus NEMATOPROCTUS Loew, 1857a**

**NEMATOPROCTUS** Loew, 1857a: 40. Type species: *Porphyrops annulata* Macquart [Palearctic], designation by Coquillett, 1910c: 574. [= *distendens* (Meigen), 1824].

NOTES: *Nematoproctus* is known from the Holarctic and Oriental realms. Adults are hygrophilous and occur on river banks and in humid deciduous forests, where they can be found on herbaceous foliage.

REFERENCES: Van Duzee (1930f; key); Robinson (1964; key, North America).

**cylindricus** (Van Duzee), 1924c: 248 (*Diaphorus*). HT in CNC. Type locality: CAN: QC, Hull. DISTRIBUTION: ON, QC.

**flavicoxa** Van Duzee, 1930f: 168. HT in AMNH. Type locality: USA: CT, Avon, Avon Old Farms. DISTRIBUTION: CT, VA.

**jucundus** Van Duzee, 1927b: 53. HT in CAS. Type locality: USA: PA, Benvenue, Amity Hall. DISTRIBUTION: PA, NC.

*junctus*; error by Van Duzee (1930f: 168).

**metallicus** Van Duzee, 1930f: 169. HT in CAS. Type locality: USA: PA, Benvenue, nr Amity Hall. DISTRIBUTION: MI, PA, NC, ?IN, ?TN.

**terminalis** (Van Duzee), 1914b: 405 (*Leucostola*). HT in MCZ. Type locality: USA: VA, Great Falls. DISTRIBUTION: OH, NY, VA.

**varicoxa** Van Duzee, 1930f: 170. HT in AMNH. Type locality: USA: CT, Avon, Avon Old Farms.

**venustus** Melander, 1900: 142. HT in ?AMNH. Type locality: USA: NJ, Westville. DISTRIBUTION: NJ, ?IA.

*venustus* (Malloch); error by Johannsen (1928: 774) (*Leucostola*).

**Genus RHAPHIUM Meigen, 1803**

**RHAPHIUM** Meigen, 1803: 272. Type species: *Rhaphium macrocerum* Meigen [Palearctic], designation by Curtis, 1835: pl. 568.

**HYDROCHUS** Fallén, 1823: 5 (includes *Hydrochus laticornis* Fallén, 1823, *H. longicornis* Fallén, 1823, *H. nasutus* Fallén, 1823, and *H. tarsatus* Fallén, 1823); preocc. by *Hydrochus* Leach, 1817.

**ANGLEARIA** Carlier, 1835: 659. Type species: *Anglearia antennata* Carlier, by monotypy.

**XIPHANDRIUM** Loew, 1857a: 36. Type species: *Rhaphium quadrifilatum* Loew, designation by Coquillett, 1910c: 621. [= *ensicorne* Meigen, 1824; as “*quadrifilum*”, lapsus by Coquillett, 1910c].

**PORPHYROPS** authors, not Meigen, misid. listed in Foote et al. (1965).

**XYPHANDRIUM**, error by Bigot (1890: 270).

NOTES: *Rhaphium* is known from all realms except Australasia and Oceania and reaches its highest species number in the temperate and arctic areas of the Holarctic. In the Nearctic, it is the third largest genus next to *Dolichopus* and *Chrysotus* (see Table 2). Many species emerge early in the season and are found in moist habitats such as humid woodlands, river banks, and pond margins.

REFERENCES: Curran (1926b, 1927b; rev.); Robinson (1964; key, eastern U.S.).

**aequale** Van Duzee, 1927a: 147. HT in CAS. Type locality: USA: ID, Moscow.

**albibarba** (Van Duzee), 1924f: 10 (*Porphyrops*); see note by Sabrosky (1971: 185). HT in USNM. Type locality: USA: AK, Anchorage.

**aldrichi** (Van Duzee), 1922a: 86 (*Xiphandrium*). HT in USNM. Type locality: USA: AK, Healy.

**arboreum** Curran, 1924b: 140. HT in CNC. Type locality: CAN: QC, Megantic. DISTRIBUTION: IN, QC.

**armatum** Curran, 1924b: 136. HT in CNC. Type locality: CAN: QC, Hull. DISTRIBUTION: QC, NY, NS, VA, NC [Bissett (1987)].

**atkinsoni** Curran, 1926b: 257, key (descr. 1927b: 156). LT designated by Curran (1927b: 156–157, see Arnaud and Owen, 1981: 70) in CNC. Type locality: CAN: SK, Saskatoon. DISTRIBUTION: AB, SK, CO, MI [Vockeroth (personal commun.)].

**banksi** Van Duzee in Curran, 1926b: 257, key (descr. 1927b: 109). HT in CAS. Type locality: USA: VA, Dyke. DISTRIBUTION: VA, NC.

**barbipes** (Van Duzee), 1923a: 239 (*Porphyrops*).

- HT in MCZ. Type locality: USA: ME, Machias.
- beringiense** Negrobov & Vockeroth in Negrobov, 1979b: 486. HT in ZIN. Type locality: Russia: Magadanskaya oblast, Hazjin river. DISTRIBUTION: AK; Palearctic [Negrobov (1991)].
- boreale** (Van Duzee), 1923c: 246 (also 1924f: 9) (*Porphyrops*). HT in OSU. Type locality: USA: AK, Savonoski, Naknek Lake. DISTRIBUTION: AK; Palearctic [Negrobov (1991)].
- brachyceras** Meuffels & Grootaert, 1999: 292; n. name for *Rhaphium brevicorne* (Van Duzee). Type locality: USA: OR, Hood River.
- brevicorne* (Van Duzee), 1923a: 241 (*Porphyrops*); preocc. by *Rhaphium brevicorne* Curtis, 1835. LT designated by Arnaud (1979: 281) in CAS. Type locality: USA: OR, Hood River.
- brevilamellatum** Van Duzee in Curran, 1926b: 254, key (descr. 1927b: 119). HT in USNM. Type locality: USA: VA, Mt. Vernon. DISTRIBUTION: NS, VA [Bissett (1987)].
- browni** Curran, 1931: 5. HT in CNC. Type locality: CAN: QC, Natashquan. DISTRIBUTION: QC, NS [Vockeroth (personal commun.)].
- calcaratum** Van Duzee, 1928c: 167. HT in CAS. Type locality: USA: NY, Ithaca.
- campestre** Curran, 1924b: 133. HT in CNC. Type locality: CAN: MB, Treesbank. DISTRIBUTION: BC, AB, SK, MB [Vockeroth (personal commun.)].
- canadense** Curran, 1924b: 137. HT in CNC. Type locality: CAN: QC, Hull. DISTRIBUTION: OH to QC, s. to GA (NY, VA, TN, NC) [Robinson (1964)].
- caudatum** Van Duzee in Curran, 1926b: 254, key (descr. 1927b: 117). HT in CAS. Type locality: USA: NY, Colden. DISTRIBUTION: NY, ON.
- ciliatum** Curran, 1929a: 30. HT in CNC. Type locality: CAN: BC, Agassiz. DISTRIBUTION: BC, CO [Vockeroth (personal commun.)].
- coloradense** Curran, 1926b: 256, key (descr. 1927b: 162); n. name for *Rhaphium longicorne* Van Duzee. Type locality: USA: CO, Grant Co., Geneva Park, 9000 ft.
- longicorne* Van Duzee, 1922a: 85; preocc. by *Rhaphium longicorne* Meigen, 1824. HT in CAS. Type locality: USA: CO, Grant Co., Geneva Park, 9000 ft.
- colute** Harmston & James in Harmston & Knowlton, 1942b: 83. HT in USNM. Type locality: USA: CO, Pingree Park. DISTRIBUTION: UT, CO.
- commune** (Meigen), 1824: 52 (*Porphyrops*). ST in ?MNHN. Type locality: ?Germany: Aachen. DISTRIBUTION: North America; Palearctic [Negrobov (1991)].
- bivittatum* Roser, 1840: 56. HT in ?SMNS. Type locality: ?Germany [Negrobov (1991)].
- spinicoxa* Loew, 1850: 101. ST in ?ZMHB. Type localities: Denmark; Germany.
- consobrinum** Zetterstedt, 1843: 471. ST in MZLU. Type localities: Sweden: "Scania ad Lomma; Jonsberg Ostrogothiae; Lapponia Tornensi"; Norway: "alpe Dovre; Levanger Norvegiae". DISTRIBUTION: AK; Palearctic.
- ?discolor* Zetterstedt, 1838: 704; synonymy questionable pending examination of female syntypes. ST in MZLU. Type localities: Sweden: "Lapponia Umensi; Lycksele; ripa lacus Borgsjoe; Åsele; Lapponia meridionalis" [Chandler (1998)].
- riparium*, not (Meigen); misid. by Parent (1938), subsequently followed by Negrobov (1991). Not Nearctic [Chandler (1998)].
- crassipes** (Meigen), 1824: 50 (*Porphyrops*). ST in ?MNHN. Type locality: Europe. DISTRIBUTION: AK, YT, NT BC, AB to QC; Palearctic [Robinson (1964); Vockeroth (personal commun.)].
- dubium** (Van Duzee), 1922a: 85 (*Xiphandrium*); as *femineum* variety. HT in CAS. Type locality: USA: NY, Gasport. DISTRIBUTION: ON, NY, QC.
- effilatum** (Wheeler), 1899: 34 (*Porphyrops*). ST in AMNH. Type localities: USA: WY, Buck Creek; Little Wind River; WI, Milwaukee. DISTRIBUTION: BC, AB, SK, MB to NS, s. to CA, UT, CO, NE, and WI [Harmston & Rapp (1983); Vockeroth (personal commun.)].
- affilatum*; error by Knowlton & Harmston (1937).
- elegantulum** (Meigen), 1824: 51 (*Porphyrops*). ST in ?MNHN. Type locality: Germany: Hamburg region. DISTRIBUTION: AK, OR, ID, CO, QC to NS and NB, s. to NY and NH; Palearctic [Robinson (1964)].
- slossonae* (Johnson), 1906: 59 (*Leucostola*); synonymized by Negrobov (1979b). HT in MCZ. Type locality: USA: NH, Mt. Washington.
- elongatum** Van Duzee, 1933a: 4. ST in CNC (4), CAS (2). Type locality: CAN: QC, Thunder River.
- exile** Curran, 1926b: 257, key (descr. 1927b: 165). LT designated by Curran (1927b: 165, see Arnaud and Owen, 1981: 71) in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: IN, TN.
- fascipes** (Meigen), 1824: 54 (*Porphyrops*). ST in ?MNHN. Type locality: Germany: Hamburg region. DISTRIBUTION: AK, AB, KS, MI, IN, ON, QC, NY; Palearctic [Vockeroth (personal commun.)].
- femineum** (Van Duzee), 1922a: 84 (*Xiphandrium*). HT in CAS. Type locality: USA: NY, Rochester. DISTRIBUTION: ON, QC, MI, IN, NY [Vockeroth (personal commun.)].

- femoratum** (Van Duzee), 1922a: 81 (*Xiphandrium*). HT in CAS. Type locality: USA: NV, Wells. DISTRIBUTION: AK, NV, UT, MT, WY, AB, MB, QC [Vockeroth (personal commun.)].
- firsovi** Stackelberg & Negrobov in Negrobov, 1976: 862. HT in ZIN. Type locality: Russia: Maritime Territory, Suchan Region, Tigrovaya. DISTRIBUTION: AK; Palearctic [Negrobov (1991)].
- flavicoxa** (Van Duzee), 1922a: 84 (*Xiphandrium*). HT in CAS. Type locality: USA: GA, Floyd Co., Lavender. DISTRIBUTION: TN, GA.
- foliatum** Curran, 1926b: 256, key (descr. 1927b: 150). HT in CAS. Type locality: USA: OH, Sugar Grove. DISTRIBUTION: TN, OH, NY, VA. *fuscicosta* Van Duzee, 1928c: 167. HT in CAS. Type locality: USA: NY, Little Valley.
- furcifer** Curran, 1931: 2. HT in CNC. Type locality: CAN: QC, Tabatiere. DISTRIBUTION: QC, NS [Bissett (1987)].
- gibsoni** Curran, 1926a: 171. HT in CNC. Type locality: CAN: NS, Smith's Cove.
- glaciale** (Ringdahl), 1920: 25 (*Porphyrops*). ST in ?NHRS. Type localities: Sweden: Lappland, nr Torneträsk; Jämtland, Wällista. DISTRIBUTION: North America; Palearctic [Negrobov (1991)].
- gracile** Curran, 1924e: 228. LT designated by Curran (1927b: 139–140, see Arnaud and Owen, 1981: 71) in USNM. Type locality: USA: MA, Beverley.
- grande** (Curran), 1923d: 210 (*Porphyrops*). HT in CNC. Type locality: CAN: BC, Agassiz. DISTRIBUTION: BC, CA, MT, WY.
- hirtimanus** Van Duzee, 1933a: 6; see note by Sabrosky (1971: 85). HT in AMNH. Type locality: USA: OR, Alsea Mount, Rock Creek.
- impetuum** Curran, 1926b: 254, key (descr. 1927b: 172). LT designated by Curran (1927b: 172–173, see Arnaud and Owen, 1981: 72) in USNM. Type locality: USA: MD, Plummer's Is. DISTRIBUTION: MD, SC [Vockeroth (personal commun.)].
- insolitum** Curran, 1926b: 256, key (descr. 1927b: 151). LT designated by Curran (1927b: 151–152, see Arnaud and Owen, 1981: 72) in USNM. Type locality: USA: FL. DISTRIBUTION: MD, NC, FL, ?ON.
- johnsoni** (Van Duzee), 1923a: 240 (*Porphyrops*). HT in CAS. Type locality: USA: NJ, Ocean Co., Lahaway. DISTRIBUTION: NH, RI, NJ, VA.
- latifacies** Van Duzee, 1930c: 53. HT in USNM. Type locality: CAN: AB, Laggan, Lake Agnes, 6800 ft.
- longibara** Van Duzee, 1930c: 53. HT in USNM. Type locality: CAN: AB, Banff.
- longipalpe** Curran, 1926b: 253, key (descr. 1927b: 148). LT designated by Curran (1927b: 148–149, see Arnaud and Owen, 1981: 72) in USNM. Type locality: USA: CO, Tennessee Pass, 10,240 ft. DISTRIBUTION: BC, ID, UT, CO [Vockeroth (personal commun.)].
- longipes** (Loew), 1864a: 95 (Cent. 5, no. 92) (*Porphyrops*). HT in MCZ. Type locality: USA: NH, White Mts. DISTRIBUTION: NB to NY, NH, CT.
- lugubre** Loew, 1861a: 49. HT in MCZ. Type locality: USA: Carolina. DISTRIBUTION: NY, PA, CT, NJ, MD, NC [Robinson (1964)].
- macalpini** Negrobov, 1986: 162. HT in ZIN. Type locality: Russia: Sakhalin, Aleksandrovsk-Sakhalinskii, Tymovskii. DISTRIBUTION: YT; Palearctic.
- melampus** (Loew), 1861a: 50 (*Porphyrops*). ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: NE and MI to QC, s. to TN and SC (ON, NJ, NC) [Robinson (1964); Harmston & Rapp (1983)].
- americanus* (Van Duzee), 1914b: 404 (*Systemus*). HT in MCZ. Type locality: USA: NC, Black Mountains.
- montanum** (Van Duzee), 1920: 47 (*Porphyrops*). HT in CAS. Type locality: USA: CA, Fresno Co., Huntington Lake, 7000 ft.
- nasutum** (Fallén), 1823: 6 (*Hydrochus*). ST in NHRS. Type locality: Sweden: "Svecia meridionali". DISTRIBUTION: AK, WA, AB, ON, QC; Palearctic [Negrobov (1979a); Vockeroth (personal commun.)].
- nudum* (Van Duzee), 1924f: 9 (*Porphyrops*); synonymized by Negrobov (1979a). HT in USNM. Type locality: USA: AK, Fairbanks.
- nigribarbatum** (Becker), 1900: 38 (*Porphyrops*). HT in ?MZHF. Type locality: Russia: Kantaika. DISTRIBUTION: NT, UT, CO; Palearctic.
- unistylatum* Vockeroth, 1952: 276; synonymized by Negrobov (1979b). HT in CNC. Type locality: CAN: NT, Mackenzie Delta, Reindeer Depot.
- nigricoxa** (Loew), 1861a: 51 (*Porphyrops*). HT in ?MCZ. Type locality: USA: MD. DISTRIBUTION: ME to MD.
- nigrociliatum** Curran, 1926b: 252, key (descr. 1927b: 99). LT designated by Curran (1927b: 99–101, see Arnaud and Owen, 1981: 72) in USNM. Type locality: USA: CO, Tennessee Pass, 10,240 ft.
- nigrovittatum** Curran, 1926b: 254, key (descr. 1927b: 121). LT designated by Curran (1927b: 121–122, see Arnaud and Owen, 1981: 72) in USNM. Type locality: USA: ID, Juliaetta.
- nigrum** (Van Duzee), 1923c: 245 (*Porphyrops*). ST in OSU. Type localities: USA: AK, Katmai; Savonoski, Naknek Lake.
- obtusum** Van Duzee, 1928c: 166. HT in CAS. Type locality: USA: NV, Reno. DISTRIBUTION: NV, MT.

- occipitale** Curran, 1927b: 171. HT in ?USNM. Type locality: USA: LA, Opelousas.
- orientale** Curran, 1926b: 254, key (descr. 1927b: 113). LT designated by Curran (1927b: 113–114, see Arnaud and Owen, 1981: 73) in CNC. Type locality: CAN: NB, Barber Dam. DISTRIBUTION: NB, MA.
- ornatum** (Van Duzee), 1923a: 242 (*Porphyrops*). LT designated by Arnaud (1979: 282) in CAS. Type locality: USA: NY, Erie Co., Colden. DISTRIBUTION: ON, NY, QC, VT.  
*petchi* Curran, 1924b: 138. HT in CNC. Type locality: CAN: QC, Hemmingford.
- palpale** Curran, 1926b: 256, key (descr. 1927b: 149). LT designated by Curran (1927b: 149–150, see Arnaud and Owen, 1981: 73) in USNM. Type locality: USA: NJ, Woodbury. DISTRIBUTION: NJ, SC [Vockeroth (personal commun.)].
- pollex** (Van Duzee), 1922a: 82 (*Xiphandrium*); as *femoratum* variety. HT in CAS. Type locality: USA: NV, Wells. DISTRIBUTION: AK, OR, ID, NV, UT.
- punctitarse** Curran, 1924b: 135. HT in CNC. Type locality: CAN: QC, Hull. DISTRIBUTION: MB, MI, QC, NS [Bissett (1987)].
- robustum** Curran, 1926b: 256, key (descr. 1927b: 145). LT designated by Curran (1927b: 145–146, see Arnaud and Owen, 1981: 73) in USNM. Type locality: USA: ID, Lewiston.
- rossi** Harmston & Knowlton, 1940d: 60. HT in INHS. Type locality: USA: IL, Golconda.
- rotundiceps** (Loew), 1861a: 51 (*Porphyrops*). HT in MCZ. Type locality: USA: DC. DISTRIBUTION: IA, MI, IN, QC to FL [Robinson (1964)].  
*fumipennis* (Loew), 1861a: 51 (*Porphyrops*). ST in MCZ. Type locality: USA: “Middle States”.
- septentrionale** Curran, 1931: 4. HT in CNC. Type locality: CAN: QC, Natashquan.
- shannoni** Curran, 1926b: 257, key (descr. 1927b: 155). LT designated by Curran (1927b: 155–156, see Arnaud and Owen, 1981: 74) in USNM. Type locality: USA: MD, Plummer’s Is. DISTRIBUTION: MA to PA and VA (NJ, MD) [Robinson (1964)].
- signiferum** (Osten Sacken), 1878: 242 (*Porphyrops*). ST in MCZ. Type localities: USA: NY, Manlius; Tarrytown. DISTRIBUTION: ON, MI, TN, PA, NY, MA, NS, VA, NC [Robinson (1964)].
- simplicipes** Curran, 1926b: 256, key (descr. 1927b: 169). LT designated by Curran (1927b: 169–170, see Arnaud and Owen, 1981: 74) in USNM. Type locality: USA: CO, Tennessee Pass, 10,240 ft.
- spinitarse** Curran, 1924b: 139. HT in CNC. Type locality: CAN: MB, Strathclair. DISTRIBUTION: CA, NV, AB, UT, CO, MB.
- steyskali** Robinson, 1967a: 116. HT in USNM. Type locality: USA: FL, Liberty Co., Sweet-water Creek, nr old “Camp Torreya”.
- subarmatum** Curran, 1924e: 228. LT designated by Curran (1927b: 124–125, see Arnaud and Owen, 1981: 74) in CNC. Type locality: CAN: NB, Oromocto. DISTRIBUTION: NB, NH, NC.
- subfurcatum** Van Duzee, 1932a: 8. HT in AMNH. Type locality: USA: WY, Carbon Co.
- temerarium** (Becker), 1922a: 151 (*Xiphandrium*). ST in NMW. Type locality: USA: CO. DISTRIBUTION: YT, UT, CO, MB.
- terminale** (Van Duzee), 1924f: 7 (*Porphyrops*). HT in USNM. Type locality: USA: AK, Nenana. DISTRIBUTION: AK, NT; Palearctic (as different subspecies) [Negrobov (1986)].
- triangulatum** (Van Duzee), 1922a: 83 (*Xiphandrium*). HT in CAS. Type locality: USA: AZ, Oak Creek Canyon, 6000 ft. DISTRIBUTION: AZ, UT, CO.
- tricaudatum** (Van Duzee), 1923c: 243 (*Porphyrops*). ST in OSU. Type localities: USA: AK, Savonoski, Naknek Lake; Katmai.
- tripartitum** (Frey) in Lundström & Frey, 1913: 13 (*Porphyrops*). ST in ?MZHF. Type localities: northern Russia ?Finland: Kambalnista. DISTRIBUTION: NT; Palearctic.
- umbripenne** (Frey), 1915: 44 (*Xiphandrium*). ST in ?MZHF. Type localities: Finland: Mäntsälä, Metsäpirtti, Paadama, Yläne, Tavastehus, Kuopio, Tuovilanlahti, Ilomantsi, Jacobstad, Säräisniemi, Kuusamo, Munio, Enontekis, Kantalaks, Ponoj, Fl. Voronje; Russia: Kola Peninsula. DISTRIBUTION: North America; Palearctic [Negrobov (1991)].
- vanduzeei** Curran, 1926b: 253, key (descr. 1927b: 104). LT designated by Curran (1927b: 104–105, see Arnaud and Owen, 1981: 74) in USNM. Type locality: USA: IN, Lafayette. DISTRIBUTION: NM NE, IN, TN, ON, NY, QC, MD, NC; MEX [Robinson (1964)].
- vockerothi** Robinson, 1964: 147; not *Rhaphium vockerothi* Negrobov, 1979b: 479 (Palearctic species). HT in USNM. Type locality: USA: NC, Swain Co., Great Smoky Mountain Mts. National Park, Mingus Creek nr Cherokee, 2000 ft. DISTRIBUTION: NC, SC.
- wheeleri** Van Duzee, 1932a: 9. HT in AMNH. Type locality: USA: WI, Wilwaukee.
- xipheres** (Wheeler), 1899: 34 (*Porphyrops*). HT in AMNH. Type locality: USA: PA, Delaware Co.

SUBFAMILY SCIAPODINAE BECKER,  
1917–1918: 121, 123

**Genus AMBLYPSILOPUS Bigot, 1888a**

**AMBLYPSILOPUS** Bigot, 1888a: xxiv. Type species: *Psilopus psittacinus* Loew [Nearctic,

Neotropical], by original designation, as *pistacinus* Fabricius.

**GNAMPTOSILOPUS** Aldrich, 1893b: 48. Type species: *Psilopus scintillans* Loew, designation by Coquillett, 1910c: 547. Synonymized by Bickel & Dyte (1989).

**LEPTORHETHUM** Aldrich, 1893b: 50. Type species: *Leptorhethum angustatum* Aldrich, by monotypy. Synonymized by Bickel (1994).

**SCIOPOLINA** Curran, 1924f: 216. Type species: *Sciopolina fasciata* Curran, by monotypy. Synonymized by Bickel (1994).

**AUSTRALIOLA** Parent, 1932c: 127. Type species: *Australiola tonnoiri* Parent, by original designation [= *Sciapus zonatus* Parent, 1932c]; synonymized by Bickel & Dyte (1989).

**LABENEURA** Parent, 1937: 126. Type species: *Labeneura barbipalpis* Parent, by monotypy [= *Sciapus lenga* Curran, 1929b]; originally treated as subgenus of *Sciapus*; synonymized by Bickel (1994).

**AGONOSOMA** authors, not Guérin-Méneville, misid. listed in Bickel (1994).

**CHRYSOSOMA** authors, not Guérin-Méneville, misid. listed in Bickel (1994).

**CONDYLOSTYLUS** authors, not Bigot, misid. listed in Bickel (1994).

**SCIAPUS** authors, not Zeller, misid. listed in Bickel (1994).

NOTES: *Amblypsilopus* is a large pan-tropical genus that is probably polyphyletic (Bickel, 1994). Except for *A. dimidiatus*, all current Nearctic species were previously listed under *Sciapus* in Foote et al. (1965), but were transferred to *Amblypsilopus* by Bickel (1994).

**bicolor** (Loew), 1861a: 96 (*Psilopus*); comb. by Bickel (1994). ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: NC.

**bradleyi** (Van Duzee), 1915b: 24 (*Sciapus*); comb. by Bickel (1994). HT in CUIC. Type locality: USA: GA, St. Simon Is. DISTRIBUTION: NC, GA, FL.

**californicus** (Steyskal), 1966b: 290 (*Sciapus*); comb. by Bickel (1994). HT in USNM. Type locality: USA: CA, Orange Co., Villa Park.

**costalis** (Aldrich), 1904: 286 (*Agonosoma*); comb. by Bickel (1994). ST in USNM (3). Type locality: USA: GA, Tifton. DISTRIBUTION: SC, GA, FL [Bickel (personal commun.)].

**dimidiatus** (Loew), 1862: 216 (Cent. 2, no. 70) (*Psilopus*); listed under *Condylostylus* in Foote et al. (1965), comb. by Bickel (1994). HT in ?MCZ. Type locality: MEX. DISTRIBUTION: AZ; MEX, Neotropics [Robinson (1970b)].

**dorsalis** (Loew), 1866a: 180 (Cent. 6, no. 85)

(*Psilopus*); comb. by Bickel (1994). HT in MCZ. Type locality: Cuba. DISTRIBUTION: MO, DC, SC, FL; Neotropics [Robinson (1970b)].

**viridivittatus** (Robinson), 1960: 272 (*Condylostylus*). HT in ?USNM (Robinson collection). Type locality: USA: DC, Rock Creek Park nr Silver Spring. NEW COMBINATION.

**floridanus** (Harmston), 1971: 85 (*Sciapus*); comb. by Bickel (1994). HT in FSCA. Type locality: USA: FL, Monro Co., Everglades National Park, Middle Cape Sable.

**fuscinervis** (Van Duzee), 1926e: 56 (*Psilopus*); comb. by Bickel (1994). HT in CNC. Type locality: CAN: ON, Point Pelee.

**infumatus** (Aldrich), 1901: 365 (*Gnamptopsilopus*); comb. by Bickel (1994). ST in ?BMNH. Type localities: MEX: Guerrero: Amula and Chilpancingo. DISTRIBUTION: AZ; MEX.

**pollinosus** (Van Duzee), 1915b: 22, key (descr., 1915d: 93) (*Sciapus*); comb. by Bickel (1994). HT in CUIC. Type locality: USA: GA, Billy's Is.

**psittacinus** (Loew), 1861a: 96 (*Psilopus*); comb. by Bickel (1994). ST in MCZ. Type locality: USA: FL. DISTRIBUTION: NJ, SC, GA, FL; Neotropics [Bickel (personal commun.)].

**rotundiceps** (Aldrich), 1904: 286 (*Agonosoma*); comb. by Bickel (1994). HT in USNM. Type locality: USA: FL, Biscayne Bay.

**scintillans** (Loew), 1861a: 94 (*Psilopus*); comb. by Bickel (1994). ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: WY, NE, MN, IA, IN, ON, NY, PA, NH, VA, NC; Neotropics [Robinson (1964, 1970b); Harmston & Rapp (1983); Vockeroth (personal commun.)].

**angustatus** (Enderlein), 1912: 405 (*Psilopus*). HT in ZMPA. Type locality: Brazil [Robinson (1970b)]. NEW COMBINATION.

**fulgidus** (Parent), 1929a: 242 (*Sciapus*). HT in MLUH. Type locality: USA: NH. NEW COMBINATION.

**dubiosus** (Van Duzee), 1932b: 8 (*Sciapus*). HT in AMNH. Type locality: USA: NY, Long Is., Cold Spring Harbor. NEW COMBINATION.

**unicoiensis** (Robinson), 1964: 114 (*Sciapus*); comb. by Bickel (1994). HT in USNM. Type locality: USA: TN, Unicoi Co., beside State route 81 NW of Erwin. DISTRIBUTION: TN, IN, NY, VA, NC, SC.

**unifasciatus** (Say), 1823: 85 (also in LeConte, 1859: 75) (*Dolichopus*); comb. by Bickel (1994). ST destroyed. Type locality: USA: PA. DISTRIBUTION: ON and MI to RI, s. to LA and FL (IL, PA, NJ, NC, SC, GA); Neotropics [Robinson (1964, 1970b)].

**sayi** (Wiedemann), 1830: 219 (*Psilopus*). ST in

NMW. Type locality: USA: PA. NEW COMBINATION.  
*ungulivena* (Walker), 1857–1860: 149 (*Psilopus*). HT in BMNH. Type locality: USA. NEW COMBINATION.  
*amabilis* (Parent), 1929a: 239 (*Sciapus*); synonymized by Steyskal (1966b). HT in MLUH. Type locality: USA: GA. NEW COMBINATION.  
*plumosa* (Van Duzee), 1932a: 1 (*Chrysosoma*); synonymized by Foote et al. (1965). HT in AMNH. Type locality: USA: IL, Chicago. NEW COMBINATION.  
**variegatus** (Loew), 1861a: 95 (*Psilopus*); comb. by Bickel (1994). HT in MCZ. Type locality: USA: FL. DISTRIBUTION: TX, NJ, NC, SC, GA, FL; Neotropics [Robinson (1964); Vockeroth (personal commun.)].

### Genus CONDYLOSTYLUS Bigot, 1859

**CONDYLOSTYLUS** Bigot, 1859: 215. Type species: *Psilopus bituberculatus* Macquart [Neotropical], by original designation.  
**AEDIPSILOPUS** Bigot, 1859: 215 (lapsus for *Oedipsilopus*).  
**DASYPSILOPUS** Bigot, 1859: 215. Type species: *Psilopus pilipes* Macquart, by original designation.  
**EUROSTOMERUS** Bigot, 1859: 215. Type species: “*Psilopus coeruleus*” Macquart, nomen nudum (= *Eurostomerus coeruleus* Bigot validated by generic description). Synonymized by Bickel (1994).  
**OEDIPSILOPUS** Bigot, 1859: 224. Type species: *Psilopus posticatus* Wiedemann, by original designation.  
**TYLOCHAETUS** Bigot, 1888a: xxiv. Type species: *Psilopus bituberculatus* Macquart, by original designation.  
**LAXINA** Curran, 1934: 230. Type species: *Dolichopus patibulatus* Say, by original designation.  
**AGONOSOMA** authors, not Guérin-Méneville, misid. listed in Dyte (1975).  
**CHRYSOSOMA** authors, not Guérin-Méneville, misid. listed in Bickel & Dyte (1989).  
**PSILOPODINUS** authors, not Bigot, misid. listed in Foote et al. (1965).  
**PSILOPUS** authors, not Meigen, misid. listed in Foote et al. (1965).  
**SCIAPUS** authors, not Zeller, misid. listed in Foote et al. (1965).

NOTES: *Condylostylus* has been recorded from the Nearctic, Neotropical, Afrotropical, and Oriental realms as well as Polynesia, and is primarily a tropical genus. Species of this and allied genera represent the majority of

Dolichopodidae in the tropics. *Condylostylus* is most diverse in the Neotropics.

REFERENCES: Van Duzee (1915b; key, as *Sciapus*); Becker (1922a); Parent (1929c; key); Curran (1942; key, as *Laxina*); Robinson (1964; key, North America north of Mexico).

**acuminatus** Van Duzee, 1930g: 89; erroneously listed as a nomen nudum by Stone et al. (1965). HT in ?BMNH. Type locality: Argentina, Misiones Territory, Bompland. DISTRIBUTION: Arlington, U.S.; Neotropics [Parent (1933c)].  
**banksii** (Van Duzee), 1915b: 23 (*Sciapus*). HT in MCZ. Type locality: USA: VA, Falls Church. DISTRIBUTION: NY, MA, VA [Vockeroth (personal commun.)].  
**brimleyi** Robinson, 1964: 111. HT in EDNC. Type locality: USA: NC, Raleigh.  
**calcaratus** (Loew), 1861a: 93 (*Psilopus*). HT in MCZ. Type locality: USA: Carolina. DISTRIBUTION: IA to QC, s. to VA, NC, and SC [Vockeroth (personal commun.)].  
**caudatus** (Wiedemann), 1830: 224 (*Psilopus*). LT designated by Bickel (2003) in NMW. Type locality: USA: GA, Savannah. DISTRIBUTION: CA to MB, ON, QC, and NS, s. to TX, MS, and FL (NE, IL, KY, OH, NY, MA, NC, SC, GA); MEX, ?Neotropics [Robinson (1970b); Harmston & Rapp (1983); Bickel (personal commun.); Vockeroth (personal commun.)].  
*virgo* (Wiedemann), 1830: 224 (*Psilopus*). ST in NMW. Type locality: USA: NY.  
*albicoxa* (Walker), 1848–1849: 651 (*Psilopus*); synonymized by Bickel (2003). ST in BMNH (1). Type localities: North America; USA: OH; MA; CAN: NS.  
*caudatulus* (Loew), 1861a: 93 (*Psilopus*). HT in MCZ. Type locality: USA: MS [MO according to Loew (1864b)].  
*quintusflavus* Gunther, 1980: 1; synonymized by Bickel (2003). HT in INHS. Type locality: USA: IL, Tazewell Co., Spring Lake Township.  
**clavatus** (Van Duzee), 1929: 15 (*Psilopus*). HT in MCZ. Type locality: Panama: Ancon. DISTRIBUTION: ?MA [the MA record of Parent (1933c: 168) is likely a mistake or labelling error (Bickel, personal commun.)]; Neotropics.  
**coloradensis** Van Duzee, 1932b: 4. HT in AMNH. Type locality: USA: CO, Wray, at about 3700 ft. DISTRIBUTION: CO, NE, MN, TX.  
**comatus** (Loew), 1861a: 89 (*Psilopus*). ST in MCZ. Type locality: USA: “Middle States”. DISTRIBUTION: NE, KS, IA, PA, NJ, VA, LA, MS, FL; Neotropics [Robinson (1970b);

- Harmston & Rapp (1983); Vockeroth (personal commun.).  
*comatus* Schiner; error of authors, listed in Foote et al. (1965).  
*chalybeus* (Van Duzee), 1914a: 390 (*Sciapus*); synonymized by Bickel (2003). HT in CUIC. Type locality: USA: PA, Philadelphia.
- connectans** (Curran), 1942: 61 (*Laxina*). HT in AMNH. Type locality: USA: CT, Avon Old Farms. DISTRIBUTION: CT, MA, NC.
- crinitus** (Aldrich), 1904: 283 (*Psilopodinus*). ST in USNM (11), SEMC (3). Type localities: USA: KS, Lawrence, University of Kansas; FL, Biscayne Bay, Lake Worth. DISTRIBUTION: KS, GA, FL; Neotropics [Robinson (1964, 1970b)].  
*debilis* Becker, 1922a: 356; synonymized by Bickel (2003). HT in ZMHB. Type locality: USA: GA.  
*albiapicatus* Parent, 1929a: 206; synonymized by Robinson (1964). HT in MLUH. Type locality: USA: GA.
- erectus** Becker, 1922a: 296. LT designated by Bickel (2003) in SMTD. Type locality: Paraguay: Asuncion. DISTRIBUTION: ?NY; Neotropics (Nearctic and Neotropical specimens probably different species) [Robinson (1964)].
- femoratus** (Say), 1823: 86 (also in LeConte, 1859: 76) (*Dolichopus*). ST destroyed. Type locality: USA: PA.
- flavipes** (Aldrich), 1904: 284 (*Psilopodinus*). ST in USNM (23). Type localities: USA: SD, Brookings; MA, New Bedford. DISTRIBUTION: MB to ME, s. to NE and FL (SD, ON, QC, NY, MA, NJ, NC) [Robinson (1964); Harmston & Rapp (1983); Vockeroth (personal commun.)].  
*femoratus*, not (Say); misid. by Say (1829–1830: 168) (also in LeConte, 1859: 361).  
*parvicauda* (Van Duzee), 1927c: 72 (*Psilopus*); synonymized by Arnaud (1979) after Harmston (in litt.). HT in CAS. Type locality: CAN: ON, Wainfleet.
- furcatus** (Van Duzee), 1915b: 21, key (descr., 1915d: 90) (*Sciapus*). ST in CAS (2), CUIC. Type localities: USA: GA, Billy's Is.; FL, Bradentown.
- fusitarsis** Van Duzee, 1933a: 2. HT in ? Type locality: USA: NY, New York City.
- graenicheri** (Van Duzee), 1927c: 73 (*Psilopus*). HT in CNC. Type locality: USA: FL, Miami. DISTRIBUTION: TX, FL; MEX, Neotropics.  
*tenuimanus* Van Duzee 1931b: 2; synonymized by Bickel (2003). HT in AMNH. Type locality: Honduras: La Ceiba.
- inermis** (Loew), 1861a: 93 (*Psilopus*). HT in MCZ. Type locality: USA: PA. DISTRIBUTION: WI to QC and MA, s. to NC, SC, GA [Vockeroth (personal commun.)].
- inornatus** (Aldrich), 1901: 356 (*Psilopus*). ST in USNM (1). Type localities: MEX: Guerrero, Morelos, and Tepetlapa. DISTRIBUTION: AZ, NM, TX; MEX [Vockeroth (personal commun.)].
- leonardi** (Van Duzee), 1915b: 19, key (descr., 1915d: 89) (*Sciapus*); comb. by Foote et al. (1965). HT in CUIC. Type locality: USA: GA, Billy's Is. DISTRIBUTION: GA, FL.
- longicornis** (Fabricius), 1775: 783 (*Musca*). ST in ZMUC (2). Type locality: America. DISTRIBUTION: CA, GA, FL, NC, Bermuda; MEX, Neotropics, French Polynesia (Austral Is., Society Is.) [Bickel & Dyte (1989); Bickel (1994); Woodley & Hilburn (1994)].  
*radians* (Macquart), 1834: 450 (*Psilopus*); synonymized by Bickel (2003). ST in MNHN. Type locality: North America.  
*nigripes* (Macquart), 1842: 181 (1842: 121) (*Psilopus*); synonymized by Bickel (2003). HT in MNHN. Type locality: Chile  
*flavimanus* (Macquart), 1842: 182 (1842: 122) (*Psilopus*); synonymized by Bickel (2003). HT in MNHN. Type locality: Brazil, north of the jurisdiction of São Paulo.  
*chrysoprasi* (Walker), 1848–1849: 646 (*Psilopus*). HT in BMNH. Type locality: West Indies [Robinson (1964)].  
*metallifer* (Walker), 1848–1849: 647 (*Psilopus*); synonymized by Parent (1934a). HT in BMNH. Type locality: Brazil.  
*chrysoprasius* (Loew), 1861a: 80 (*Psilopus*); unjustified emendation of *Psilopus chrysoprasi* Walker.  
*zonatulus* (Thomson), 1869: 509 (*Psilopus*); synonymized by Bickel (1998a). LT designated by Bickel (1998a: 63) in NHRS. Type Locality: Ecuador, Puna.  
*trichosoma* (Bigot), 1890: 285 (*Psilopus*); synonymized by Bickel (2003). HT in UMO. Type locality: Brazil.  
*chrysoprasinus*; error by Verrill (1903: 337).  
*chrysoprasus*; error by Verrill (1903: 337).  
*xanthoprasius*, error by Parent (1926b: 216).  
*grisoprasius*; error or unjustified emendation by van der Wulp (1882: 120).  
*ciliipes* (Aldrich), 1901: 355 (*Psilopus*). ST in USNM (7). Type localities: MEX: Acapulco; Tierra Colorada; Medellin; Ver Cruz; Cuernavaca; N Yucatan.  
*dentaticauda* Van Duzee, 1933e: 66; synonymized by Bickel & Sinclair (1997). HT in CAS. Type locality: Ecuador: Galápagos Islands.  
**longitalus** (Van Duzee), 1923d: 72 (*Psilopus*). HT in ?Type locality: USA: LA, Winnfield.

- melampus** (Loew), 1862: 215 (Cent. 2, no. 69) (*Psilopus*). ST in MCZ. Type locality: MEX. DISTRIBUTION: NV to CO, AZ, NM; MEX [Bickel (personal commun.)].
- currani* Parent, 1929a: 219; synonymized by Bickel (2003). HT in MLUH. Type locality: USA: CO, Colorado Springs (Parent, 1933a: 5, as “Colo Spr. Col. H.F. Wickham”, but misinterpreted as the source of the Colo River, Australia) [Sabrosky (1967)].
- mundus** (Wiedemann), 1830: 227 (*Psilopus*). ST in NMW. Type locality: USA: GA, Savannah. DISTRIBUTION: TX, GA, NC, SC, FL; MEX, Neotropics [Robinson (1964); Bickel (personal commun.)].
- peractus* (Walker), 1857–1860: 287 (*Psilopus*); synonymized by Bickel (2003). HT in BMNH. Type locality: MEX.
- ciliatus* (Loew), 1861a: 88 (*Psilopus*). HT in MCZ. Type locality: USA: FL.
- nigrofemoratus** (Walker), 1848–1849: 650 (*Psilopus*). ST in BMNH. Type localities: North America; CAN: NS. DISTRIBUTION: CO and NE to QC, NB, and NS, s. to GA (ON, NY, IL, TN, VA, NC) [Harmston & Rapp (1983); Vockeroth (personal commun.)].
- nigrifemoratus*; error by Becker (1922a: 357).
- scutellatus* (Harris), 1835: 597 (*Psilopus*); nomen nudum.
- scobinator* (Loew), 1861a: 91 (*Psilopus*). ST in MCZ, CNC (1). Type localities: USA: IL; NY. *scrobicator*; error listed by Foote et al. (1965).
- cockerelli* (Van Duzee), 1927c: 73 (*Psilopus*). HT in CAS. Type locality: USA: CO, Boulder.
- occidentalis** (Bigot), 1888b: xxix (also 1890: 290) (*Psilopodinus*). LT designated by Bickel (2003) in UMO. Type locality: USA: CA. DISTRIBUTION: BC, WA, CA, ID, UT, AZ; MEX [Vockeroth (personal commun.)].
- pilicornis* (Aldrich), 1904: 282 (*Psilopodinus*). LT designated by Bickel (2003) in USNM. Type locality: USA: ID, Lewiston. [Robinson (1970b)].
- flicornis*; error listed by Foote et al. (1965).
- patibulatus** (Say), 1823: 87 (also in LeConte, 1859: 76) (*Dolichopus*). ST destroyed. Type locality: USA: FL. DISTRIBUTION: MB, QC, ON, and NY, s. to NE, NC, SC, and FL, ?AB; MEX, Neotropics [Robinson (1970b); Hagley (1975); Harmston & Rapp (1983); Vockeroth (personal commun.)].
- amatus* (Walker), 1848–1849: 648 (*Psilopus*). ST in BMNH. Type localities: USA: NY, Trenton Falls.
- inficitus* (Walker), 1848–1849: 649 (*Psilopus*). HT in BMNH. Type locality: MEX [Robinson (1970b)].
- carolinensis* (Bigot), 1888b: xxix (also 1890: 291) (*Psilopodinus*). HT in ?UMO. Type locality: USA: Carolina.
- portoricensis** (Macquart), 1834: 450 (*Psilopus*); listed as *nomen dubium* by Bickel (2003). HT in MNHN. Type locality: Puerto Rico. DISTRIBUTION: ? FL; Neotropics (FL record doubtful as species is based on an unrecognizable female type; see Parent, 1926b: 210).
- pruinusosus** (Coquillett), 1904: 186 (*Sciapus*); listed under *Sciapus* in Foote et al. (1965). ST in USNM (4). Type locality: USA: FL, Miami, Biscayne Bay. DISTRIBUTION: GA, FL; Neotropics (Bahamas, Puerto Rico, Dominican Republic) [Robinson (1964); Poole (1996); Bickel (personal commun.)].
- quadricolor** (Walker), 1848–1849: 649 (*Psilopus*). HT in BMNH. Type locality: Brazil. DISTRIBUTION: TX, ?MA, ?PA; MEX, Neotropics.
- jucundus* (Loew), 1861a: 87 (*Psilopus*); synonymized by Bickel (2003). ST in MCZ. Type locality: Cuba.
- astequinus* (Bigot), 1888b: xxx (*Psilopodinus*). ST in UMO. Type locality: MEX.
- similis* (Aldrich), 1901: 359 (*Psilopus*); synonymized by Parent, 1934a: 28. ST in USNM (1), BMNH (1). Type localities: MEX: Guerrero, Venta de Zopilote; Morelos, Cuernavaca; Medellin nr Vera Cruz; Tabasco, Teapa, and Frontera; Orizaba; N Yucatan; Brazil: Rio de Janeiro.
- digitatus* (Van Duzee), 1914a: 391 (*Sciapus*), synonymized by Bickel (2003). ST in CAS (2), OSU. Type locality: Cuba.
- nigritibia* Van Duzee, 1932c: 183; synonymized by Bickel (2003). HT in CAS. Type locality: Cuba, Santiago de los Vegas.
- sipho*, not Say; misid. listed under *jucundus* in Foote et al. (1965).
- scaber** (Loew), 1861a: 85 (*Psilopus*) removed from synonymy with *C. sipho* (Say) by Bickel (2003). HT in MCZ. Type locality: USA: PA. DISTRIBUTION: southeast USA, FL [Robinson (1964)].
- trisetosus* (Van Duzee), 1932a: 2 (*Sciapus*); synonymized by Bickel (2003). HT in AMNH. Type locality: USA: FL, Gotha.
- sipho** (Say), 1823: 84 (also in LeConte, 1859: 75) (*Dolichopus*). ST destroyed. Type locality: USA: “United States”. DISTRIBUTION: southeast Canada (QC), s. to NE, TX and FL; Neotropics [Robinson (1970b); Harmston & Rapp (1983); Bickel (personal commun.)].
- gemmifer* (Walker), 1848–1849: 646 (*Psilopus*). HT in BMNH. Type locality: NY, Trenton Falls.
- tonsus** (Aldrich), 1901: 364 (*Psilopus*). HT in ?BMNH. Type locality: MEX: Tabasco, Frontera. DISTRIBUTION: NC, FL; MEX.



**villosus** Parent, 1928: 175. ST in ZMUH, destroyed. Type locality: Costa Rica: La Caja. DISTRIBUTION: TX; Neotropics.

**semicomatus** (Van Duzee), 1929: 4 (*Psilopus*); synonymized by Bickel (2003). HT in USNM. Type locality: Guatemala: Obispo, La Providencia.

**viridicoxa** (Aldrich), 1904: 284 (*Psilopodinus*). ST in USNM (22), CNC (2). Type locality: USA: LA, Opelousas. DISTRIBUTION: MO, IN, NJ, LA, MS [Bickel (personal commun.)].

**viridis** Parent, 1929a: 238. HT in MLUH. Type locality: USA: PA. DISTRIBUTION: PA, FL [Bickel (personal commun.)].

### Genus MESORHAGA Schiner, 1868

**MESORHAGA** Schiner, 1868: 217. Type species: *Mesorhaga tristis* Schiner [Neotropical], by original designation.

**APTORTHUS** Aldrich, 1893b: 48. Type species: *Aptorthus albiciliatus* Aldrich, designation by Coquillett, 1910c: 509.

NOTES: *Mesorhaga* has a worldwide distribution, but it is most diverse in the Australasian realm. The habits of the Nearctic species are unknown.

REFERENCES: Parent (1929b; key); Robinson (1964; key, U.S.).

**albiciliata** (Aldrich), 1893b: 48 (*Aptorthus*). ST in USNM (2). Type locality: USA: NJ, Westville. DISTRIBUTION: NJ, NC, GA; Neotropics [Robinson (1970b)].

**borealis** (Aldrich), 1893b: 49 (*Aptorthus*). HT in USNM. Type locality: USA: MN, Ramsey Co.

**caerulea** Van Duzee, 1930a: 1. HT in AMNH. Type locality: USA: CT, Avon, Avon Old Farms. DISTRIBUTION: ON, CT [Vockeroth (personal commun.)].

**caudata** Van Duzee, 1915d: 94. ST in CUIC, CAS (1). Type locality: USA: GA, Billy's Is.

**clavicauda** Van Duzee, 1925c: 154. HT in CAS. Type locality: USA: MI, Muskegon. DISTRIBUTION: IL, MI.

**flavipes** Van Duzee, 1932b: 9. HT in AMNH. Type locality: USA: NY, Long Is., Cold Spring Harbor.

**jucunda** Becker, 1922a: 377. ST in HNHM, ZMHB. Type localities: USA: GA; Paraguay: Asuncion. DISTRIBUTION: GA; Neotropics (specimen from Paraguay probably different species).

**nigripes** (Aldrich), 1893b: 49 (*Aptorthus*). HT in USNM. Type locality: USA: CA.

**ornatipes** Van Duzee, 1932c: 184. HT in CAS. Type locality: Cuba: Manacas Station. DISTRIBUTION: ?GA; Neotropics [Robinson (1964, 1970b)].

**pallidicornis** Van Duzee, 1925e: 178. HT in CAS. Type locality: USA: OH, Sandusky. DISTRIBUTION: MB, NE, KS, IL, ON, s. to TX [Harmston & Rapp (1983); Vockeroth (personal commun.)].

**tricorniflavrai** Gunther, 1982: 2; synonymized by Bickel (2003). HT in INHS. Type locality: USA: IL, Tazewell Co., Springlake Township.

**townsendii** (Aldrich), 1893b: 50 (*Aptorthus*). HT in the USNM. Type locality: USA: AZ, Aztec. DISTRIBUTION: AZ, UT, ?MA, ?NJ.

**varipes** Van Duzee, 1917a: 123. HT in ?MCZ. Type locality: USA: MA, Eastham. DISTRIBUTION: MA, NJ.

### Genus SCIAPUS Zeller, 1842

**LEPTOPUS** Fallén, 1823: 23 (includes *Leptopus longulus* Fallén, 1823 and *L. wiedemanni* Fallén, 1823); preocc. by *Leptopus* Latreille, 1809.

**PSILOPUS** Meigen, 1824: 35. Type species: *Dolichopus platypterus* Fabricius, designation by Westwood, 1840: 134; preocc. by *Psilopus* Poli, 1795.

**SCIAPUS** Zeller, 1842: 831. Type species: *Dolichopus platypterus* Fabricius [Palearctic], automatic. N. name for *Psilopus* Meigen, 1824.

**STENARUS** Gistel, 1848: 152. Type species: *Dolichopus platypterus* Fabricius, automatic. Unnecessary n. name for *Psilopus* Meigen, 1824.

**PSILOPODIUS** Rondani, 1861: 11. Type species: *Dolichopus platypterus* Fabricius, automatic. Unnecessary n. name for *Psilopus* Meigen, 1824.

**PSILOPODINUS** Bigot, 1888a: xxiv (also 1888b: xxix). Type species: *Dolichopus platypterus* Fabricius, by original designation.

**PSILOPIELLA** Van Duzee, 1914c: 438. Type species: *Psilopiella rutila* Van Duzee, by original designation. Synonymized by Bickel (1994).

**AGASTOPLAX** Enderlein, 1936: 114. Type species: *Psilopus flavicinctus* Loew, by monotypy. Synonymized by Bickel (1994).

**DACTYLODISCIA** Enderlein, 1936: 114. Type species: *Psilopus calceolata* Loew, by original designation. Synonymized by Bickel (1994).

**DACTYLORHIPIS** Enderlein, 1936: 114. Type species: *Psilopus bellus* Loew, by monotypy. Synonymized by Bickel (1994).

**PLACANTICHIR** Enderlein, 1936: 114 (unavailable name, genus proposed after 1930 without designation of type species from the five included species).

**PLACANTICHIR** Bickel, 1994: 88. Type species: *Dolichopus nervosus* Lehmann, by original

designation. Synonymized by Bickel (1994): “for description to validate proposal of new genus, see generic characters cited for *Placantichir* by Enderlein (1936: 114).”

*AGONOSOMA* authors, not Guérin-Ménéville, misid. listed in Foote et al. (1965).

*SCIOPUS*, error listed in Foote et al. (1965).

NOTES: *Sciapus* is known from the Nearctic, Palearctic, and Oriental realms (Bickel, 1994). In the Palearctic region, species of this genus are found in abundance in dry sandy areas and dry forests (Pollet, unpubl. data). Most species occur on tree trunks and other vertical surfaces, whereas other species are mainly soil-dwelling in dry habitats like coastal dunes and dry heathland. Two species, *S. pallens* and *S. wiedemanni*, occur in both the Nearctic and Palearctic regions. The distribution of *S. wiedemanni* suggests accidental human introduction.

REFERENCES: Aldrich (1904; key); Becker (1922a; key); Van Duzee (1915b; rev.); Robinson (1964; key, North America north of Mexico); Steyskal (1966b; key; 1973c, amendments to 1966b key); Bickel, (1994; generic review).

**delicatus** (Walker), 1848–1849: 645 (*Psilopus*); listed under *Condylostylus* in Foote et al. (1965), but placed in *Sciapus* by Parent (1932b) and Steyskal (1966b). ST in BMNH. Type locality: USA: NY. DISTRIBUTION: ON, QC, IN, NY, NC [Vockeroth (personal commun.)].

*pallescens* (Bigot), 1888b: xxix (also 1890: 289) (*Psilopodinus*). HT in ?UMO. Type locality: USA: NC [Steyskal (1966b)].

*noveboracensis* Van Duzee, 1915b: 25; synonymized by Steyskal (1966b). HT in CAS. Type locality: USA: NY, Gowanda.

**filipes** (Loew), 1861a: 99 (*Psilopus*). HT in MCZ. Type locality: USA: “Middle States”. DISTRIBUTION: MN, ON, QC, CT, VA, NC [Vockeroth (personal commun.)].

**nebraskaensis** (Harmston & Rapp), 1968: 251 (*Psilopiella*). HT in CAS. Type locality: USA: NE, Halsey, U.S. National Forest, Bessey Division.

**ogilvii** Malloch, 1932: 124; listed under *Condylostylus* in Foote et al. (1965). HT in BMNH. Type locality: Bermuda: Agr. Sta., Elba Beach, south shore.

**pallens** (Wiedemann), 1830: 219 (*Psilopus*). ST in NMW. Type locality: USA: NY. DISTRIBUTION: MI, NY, MA to MD, DC, and NC; Palearctic [Robinson (1964); Negrobov (1991)].

*albonotatus* (Loew), 1857a: 4 (*Psilopus*); established synonym, omitted in Foote et al. (1965). HT in ?ZMHB. Type locality: Greece.

**rutilus** (Van Duzee), 1914c: 439 (*Psilopiella*). HT in CAS. Type locality: USA: FL, Bradentown. DISTRIBUTION: NE, FL.

**tener** (Loew), 1862: 217 (Cent. 2, no. 71) (*Psilopus*). ST in MCZ. Type locality: USA: PA. DISTRIBUTION: ON, MI, QC, and ME to NC, GA, and FL; Neotropics [Robinson (1970b); Vockeroth (personal commun.)].

**wiedemanni** Fallén, 1823: 24 (*Leptopus*). ST in MZLU, NHRS. Type locality: Sweden. DISTRIBUTION: WA, ON; W. Palearctic.

*divergens* Van Duzee, 1933a: 3; synonymized by Bickel (2003). HT in AMNH. Type locality: USA: WA, Pierce Co., Summer.

#### SUBFAMILY STOLIDOSOMATINAE

BECKER, 1922a: 5, 213

#### Genus SYMPYCNIDELPHUS Robinson, 1964

**SYMPYCNIDELPHUS** Robinson, 1964: 149.

Type species: *Sympycnidelphus sharpi* Robinson [Nearctic], by original designation.

NOTES: Robinson (1964) makes the following remark about this genus: “The occurrence of a member of this apparently tropical genus in the Southern Appalachians follows the pattern seen in many plant types. Dr. A. J. Sharp, Department of Botany, University of Tennessee, has long called attention to such distributions and has suggested that the locality of the southern Appalachians has served as a refuge for many tropical types since the more generally tropical conditions in the pre-Pleistocene.” *Sympycnidelphus* is restricted to the New World.

**californicus** Harmston, 1968: 23. HT in UCDC. Type locality: USA: CA, Amador Co., Fiddletown.

**sharpi** Robinson, 1964: 150. HT in USNM. Type locality: USA: TN, Unicoi Co., NW of Erwin, in small ravine next to State Route 81.

**texanus** Harmston, 1968: 21. HT in USNM. Type locality: USA: TX, Corpus Christi.

#### SUBFAMILY SYMPYCNINAE

ALDRICH, 1905: 292

#### Genus CALYXOCHAETUS Bigot, 1888a

**CALYXOCHAETUS** Bigot, 1888a: xxiv. Type species: *Sympycnus nodatus* Loew [Nearctic], by original designation. [As “*notatus*”, error].

Treated as subgenus of *Sympycnus* by Van Duzee (1930e). Listed as synonym of *Sympycnus* by Dyte & Smith (1980), but treated as valid genus by Robinson & Vockeroth (1981).

*NOTHOSYMPYCNUM* Wheeler, 1899: 51. Type species: *Nothosympycnus vegetus* Wheeler, designation by Coquillett, 1910c: 576.

*NOTOSYMPYCNUM*, error or unjustified emendation listed in Foote et al. (1965).

NOTES: *Calyxochaetus* is a New World genus and is most diverse in the Nearctic. Adults are common in shady areas and frequently hover over moist rocks and falling water.

REFERENCES: Van Duzee (1930e; rev.); Robinson (1964; key, eastern U.S.).

**arizonicus** (Harmston), 1968: 24 (*Sympycnus*). HT in CAS. Type locality: USA: AZ, Santa Catalina Mts. NEW COMBINATION.

**binodatus** (Harmston & Knowlton), 1940c: 397 (*Sympycnus*). HT in USNM. Type locality: USA: UT, Leeds. NEW COMBINATION.

**cilifemoratus** (Van Duzee), 1924f: 12 (*Nothosympycnus*). HT in USNM. Type locality: USA: AK, Anchorage. DISTRIBUTION: AK, UT, CO. *fuscitibialis* (Harmston & Knowlton), 1940c: 400 (*Sympycnus*); synonymized by Foote et al. (1965) after Harmston (in litt.). HT in USNM. Type locality: USA: UT, Duchesne Co., Curran Creek.

**clavicornis** (Van Duzee), 1930e: 55 (*Sympycnus*). HT in USNM. Type locality: USA: CA, Mono Lake.

**distortus** (Van Duzee), 1930e: 55 (*Sympycnus*). HT in USNM. Type locality: USA: UT, Soldier Summit, 7454 ft.

**fortunatus** (Wheeler), 1899: 52 (*Nothosympycnus*). HT in AMNH. Type locality: USA: PA, Natrona. DISTRIBUTION: ON to NS and ME, s. to NC (NY, NJ, PA, New England) [Robinson (1964); Bissett (1987)].

**frontalis** (Loew), 1861a: 67 (*Sympycnus*). ST in MCZ. Type locality: USA: PA. DISTRIBUTION: IA to NS and ME, s. to TN and SC (MO, IN, NY, PA, MA, DC, VA, NC) [Robinson (1964); Bissett (1987); Vockeroth (personal commun.)].

**hardyi** (Harmston & Knowlton), 1940c: 397 (*Sympycnus*). HT in USNM. Type locality: USA: UT, Hooper. DISTRIBUTION: UT, NE [Harmston & Rapp (1983)]. NEW COMBINATION.

**hastatus** (Van Duzee), 1930e: 57 (*Sympycnus*). HT in CAS. Type locality: USA: CA, San Diego Co., on edge of Colorado Desert. DISTRIBUTION: CA; MEX.

**inornatus** (Van Duzee), 1917b: 340 (*Nothosym-*

*pycnus*). ST in CUIC, CAS (1). Type locality: USA: CA, Contra Costa Co., San Pablo, Wild Cat Canyon.

**insolitus** (Van Duzee), 1932b: 20 (*Sympycnus*). HT in AMNH. Type locality: USA: CO, Aspen, at about 8000 ft. DISTRIBUTION: ID, UT, CO [Turner (1987)].

**isoaristus** (Harmston & Knowlton), 1940c: 402 (*Sympycnus*). HT in USNM. Type locality: USA: UT, Cedar Breaks. DISTRIBUTION: UT, NE [Harmston & Rapp (1983)]. NEW COMBINATION.

**luteipes** (Van Duzee), 1923d: 63 (*Nothosympycnus*). ST in MCZ. Type locality: USA: ME, Bar Harbor. DISTRIBUTION: ON, QC, NY, ME [Vockeroth (personal commun.)].

*tarsalis* (Curran), 1924a: 108 (*Nothosympycnus*). HT in CNC. Type locality: CAN: ON, Orillia.

**millardi** Meuffels & Grootaert, 1999: 290; n. name for *Calyxochaetus monticola* (Van Duzee). Type locality: USA: CO, La Plata Co., Electric Lake, at about 8400 ft.

*monticola* (Van Duzee), 1932b: 20 (*Sympycnus*); preocc. by *Sympycnus monticolus* Becker, 1919. HT in AMNH. Type locality: USA: CO, La Plata Co., Electric Lake, at about 8400 ft.

**nodatus** (Loew), 1862: 215 (Cent. 2, no. 68) (*Sympycnus*). ST in MCZ. Type locality: USA: IL. DISTRIBUTION: MB to NY, s. to TX (NE, KS, MN, IA, MO, AR, MS, ON, WI, IL, IN, OH) [Robinson (1964); Harmston & Rapp (1983)].

*notatus*; error by Bigot (1888a: xxiv).

*abbreviatus* (Van Duzee), 1917b: 341 (*Nothosympycnus*); synonymized by Harmston & Miller (1966). HT in SEMC. Type locality: USA: KS, Douglas Co.

**oreas** (Wheeler), 1899: 55 (*Nothosympycnus*). HT in AMNH. Type locality: USA: WY, Buck Creek. DISTRIBUTION: CA, UT, WY.

*spatulatus* (Harmston & Knowlton), 1940c: 398 (*Sympycnus*). HT in USNM. Type locality: USA: UT, Hanksville.

**pennarista** (Harmston & Knowlton), 1940c: 399 (*Sympycnus*). HT in USNM. Type locality: USA: UT, Manila. NEW COMBINATION.

**pictipes** (Harmston & Knowlton), 1940c: 401 (*Sympycnus*). HT in USNM. Type locality: USA: UT, Kanosh Canyon. NEW COMBINATION.

**sobrinus** (Wheeler), 1899: 54 (*Nothosympycnus*). HT in AMNH. Type locality: USA: ID, Lewiston. DISTRIBUTION: CA, ID.

**tripilus** (Van Duzee), 1930e: 52 (*Sympycnus*). HT in CAS. Type locality: USA: CA, San Diego Co., on edge of Colorado Desert. DISTRIBUTION: CA, UT. NEW COMBINATION.

**vegetus** (Wheeler), 1899: 53 (*Nothosympycnus*). ST in AMNH, CNC (1). Type locality: USA:

CA, Monterey Co. DISTRIBUTION: OR, CA, ID, UT, NE, ?NS [Harmston & Rapp (1983)].

### Genus CAMPSICNEMUS Haliday, 1851

*CAMPTOSCELES* Haliday, 1832: 357 (subgenus of *Medeterus*; suppressed by I.C.Z.N. 1958: 349).

*LEPTOPEZINA* Macquart, 1835: 554. Type species: *Diastata gracilis* Meigen, 1820, by monotypy. *Nomen oblitum* (see Evenhuis, 2003).

**CAMPSICNEMUS** Haliday, 1851: 187. Type species: *Dolichopus scambus* Fallén [Palearctic]. By validation of I.C.Z.N. (1958: 351) (Opinion 531) [Name No. 1316 on Official list of Generic Names in Zoology]. *Nomen protectum* (see Evenhuis, 2003).

*ECTOMUS* Mik, 1878b: 8. Type species: *Medeterus alpinus* Haliday, by original designation.

*EMPEROPTERA* Grimshaw in Grimshaw & Speiser, 1902: 81. Type species: *Emperoptera mirabilis* Grimshaw, by monotypy.

*CAMPTOSCELUS* Kertész, 1909: 306. Type species: *Dolichopus scambus* Fallén, automatic. Unjustified emendation of *Camptosceles* Haliday, 1832.

*EMPEROTERA*, error by Hardy & Kohn (1964: 98).

NOTES: *Campsicnemus* has been recorded from all realms except the Neotropical and has undergone a huge species radiation on the Hawaiian Islands with more than 130 described species. Elsewhere it is relatively poor in species. Species of *Campsicnemus* are generally hygrophilous and soil-dwelling. They mainly occur near open water in forests, marshlands, and on banks of all kinds of water bodies while a number of species are restricted to humid heathland. Like *Hydrophorus*, they have been observed skating on the water surface and some species are active during winter.

REFERENCES: Curran (1933; key); Harmston & Knowlton (1942a; rev.); Robinson (1964; key, southeastern U.S.).

**alaskensis** Harmston & Miller, 1966: 88. HT in CAS. Type locality: USA: AK, Sterling Highway, Clam Beach.

**alexanderi** Harmston & Miller, 1966: 89. HT in CAS. Type locality: USA: AK, Taylor Highway, West Fork Dennisan River, Mile Post 49.

**americanus** Van Duzee, 1924f: 3. HT in USNM. Type locality: USA: AK, Healy. DISTRIBUTION: AK, CO, ON, QC, MI, NY, ME, MA [Beaulieu & Wheeler (2001)].

**arcuatus** Van Duzee, 1917a: 125. HT in CAS.

Type locality: USA: CO, Victor, 9800 ft. DISTRIBUTION: CO, WY.

**bryanti** Malloch, 1932: 121. HT in CAS. Type locality: CAN: MB, Fort Churchill. DISTRIBUTION: MT, SK, WY, MB.

**cinctipis** Harmston, 1968: 17. HT in CAS. Type locality: CAN: NT, Aklavik.

**claudicans** Loew, 1864b: 194. ST in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK to CA, ID, MT, and CO.

*claudicans*; error by Van Duzee (1923c: 241).

**coloradensis** Harmston & Miller, 1966: 90. HT in CAS. Type locality: USA: CO, Ward.

**curvispina** Van Duzee, 1930a: 2; n. name for *Campsicnemus calcaratus* Van Duzee. Type locality: USA: AK, Fairbanks.

*calcaratus* Van Duzee, 1924f: 3; preocc. by *Campsicnemus calcaratus* Grimshaw, 1901.

HT in USNM. Type locality: USA: AK, Fairbanks.

**degener** Wheeler, 1899: 58. ST in AMNH. Type localities: USA: CA, Pacific Grove; ID, Vollmer. DISTRIBUTION: AK and WA to CA, CO, NE, ON, QC, NS, ne. U.S. [Harmston & Rapp (1983); Bissett (1987)].

**hirtipes** Loew, 1861a: 68. ST in MCZ. Type locality: USA: PA. DISTRIBUTION: NE and KS to MI, QC, NY, and NS, s. to VA, NC, GA, and FL [Harmston & Rapp (1983); Bissett (1987); Vockeroth (personal commun.)].

*latipes (lapsus)* Curran, 1934: 218, fig. 2 [Sambrosky (1971)].

**melanus** Harmston & Knowlton, 1942a: 11. HT in USNM. Type locality: USA: UT, Torrey.

**milleri** Harmston, 1966b: 226. HT in CAS. Type locality: USA: OR, Boi-Cope State Park.

**montanus** Harmston & Knowlton, 1942a: 14. HT in USNM. Type locality: USA: MT, Gardiner. DISTRIBUTION: MT, WY.

**nigripes** Van Duzee, 1917a: 126. HT in CAS. Type locality: USA: CA, Sacramento. DISTRIBUTION: MT to CA and CO.

**oedipus** Wheeler, 1899: 60. ST in AMNH, USNM (1). Type locality: USA: WY, Two-gwo-te-ee Pass. DISTRIBUTION: OR, UT, WY, CO.

**oregonensis** Harmston & Miller, 1966: 88. HT in CAS. Type locality: USA: OR, Barview State Park.

**philoctetes** Wheeler, 1899: 59. ST in AMNH. Type localities: USA: WY, Lusk; Little Wind River canyons; Hunter's Creek; Jackson Lake; SD. DISTRIBUTION: WA, OR, ID, UT, WY, SD, MN.

**thersites** Wheeler, 1899: 61. ST in AMNH. Type localities: USA: WY, Natrona Co.; Wind River Mts.; Two-gwo-te-ee Pass. DISTRIBUTION: MT, ID, UT, WY.

**utahensis** Harmston & Knowlton, 1942a: 13. HT

in USNM. Type locality: USA: UT, Heber. DISTRIBUTION: UT, NE [Harmston & Rapp (1983)].  
**vanduzeei** Curran, 1933: 6. HT in AMNH. Type locality: CAN: MB, Churchill.  
**wheeleri** Van Duzee, 1923d: 64. HT in MCZ. Type locality: USA: ME, Machias. DISTRIBUTION: QC, ME, NS [Bissett (1987)].  
*variabilis* (Van Duzee), 1932a: 9 (*Thinophilus*). HT in CNC. Type locality: CAN: QC, Natashquan.

### GENUS EREBOMYIA Runyon & Hurley, 2004

**EREBOMYIA** Runyon & Hurley, 2004: 1. Type species: *Erebomyia exalloptera* Runyon & Hurley [Nearctic], by monotypy.

NOTES: *Erebomyia exalloptera* is found within large, dark cavities formed by overhanging rocks near streams. Three more *Erebomyia* species await description (Runyon & Hurley, 2004).

REFERENCES: Runyon & Hurley (2004).

**exalloptera** Runyon & Hurley, 2004: 114. HT in CAS. Type locality: USA: AZ, Santa Cruz Co., Madera Canyon, 5100 ft.

### Genus LAMPROCHROMUS Mik, 1878b

**LAMPROCHROMUS** Mik, 1878b: 7. Type species: *Chrysotus elegans* Meigen [Palearctic], by original designation. [= *bifasciatus* (Macquart), 1827; see Chandler (1998)].

*LAMPROCHROMUS*, error by Parent (1944: 122).

NOTES: *Lamprochromus* is found exclusively in the Holarctic and has only a few species. In the Palearctic, *L. bifasciatus* and *L. strobli* are almost entirely restricted to reed marshes (Pollet, 2000). The habits of the Nearctic species are unknown.

REFERENCE: Robinson (1964; key, North America).

**canadensis** (Van Duzee), 1917b: 339 (*Sympycnus*). HT in CAS. Type locality: CAN: ON, Ft. Erie. DISTRIBUTION: WA, ON, NY, NC, ?UT [Turner (1987)].

*brevicornis* (Robinson), 1960: 271 (*Telmaturgus*). HT in ?USNM (Robinson collection). Type locality: USA: NC, Durham, Duke Gardens.

**occidentalis** Robinson, 1967a: 123. HT in USNM. Type locality: USA: NV, Wells. DISTRIBUTION: NV, ID.

**satrapa** (Wheeler), 1890: 359 (*Diaphorus*); comb. by Foote et al. (1965). HT in AMNH. Type locality: USA: NE, Saline Co.

### Genus NEOPARENTIA Robinson, 1967c

**NEOPARENTIA** Robinson, 1967c: 252. Type species: *Neoparentia bisetosa* Robinson [Neotropical], by original designation.

**caudata** (Van Duzee), 1917b: 338 (*Sympycnus*); listed as *Sympycnus* in Foote et al. (1965) and as *Parasyntormon* by Harmston & Miller (1966); comb. by Robinson (1967c). HT in CUIC. Type locality: USA: CA, Contra Costa Co., San Pablo, Wild Cat Canyon. DISTRIBUTION: CA, WA [Turner (1987)].

### Genus PARASYNTORMON Wheeler, 1899

**PARASYNTORMON** Wheeler, 1899: 41. Type species: *Parasyntormon asellus* Wheeler [Nearctic], designation by Coquillett, 1910c: 585. Listed in Rhamphinae by Foote et al. (1965).

**NEOSYNTORMON** Curran, 1934: 230. Type species: *Parasyntormon montivagum* Wheeler, by original designation.

NOTES: *Parasyntormon* is only known from the New World, with most species described from western North America. Blacklith et al. (1995) have questioned the validity of this genus.

REFERENCE: Van Duzee (19n22b).

**appendiculatum** Harmston & Knowlton, 1943b: 63. HT in USNM. Type locality: USA: UT, Manila.

**asellus** Wheeler, 1899: 42. ST in AMNH. Type locality: USA: CA, Coronado, San Diego Bay. DISTRIBUTION: CA, CO.

**classicum** Harmston & Knowlton, 1943b: 64. HT in USNM. Type locality: USA: UT, San Juan Co., Bluff.

**emarginatum** Wheeler, 1899: 45. ST in AMNH. Type localities: USA: CA, Monterey; San Diego.

**emarginicorne** Curran, 1923c: 192. HT in CNC. Type locality: CAN: AB, Banff. DISTRIBUTION: BC, AB, SK, MB [Vockeroth (personal commun.)].

**flavicoxa** Van Duzee, 1922b: 89. HT in CAS. Type locality: USA: CA, Berkeley.

**fraterculus** Van Duzee, 1922b: 88. HT in CAS. Type locality: USA: CA, Los Angeles Co., Watts. DISTRIBUTION: CA, NV.

**hendersoni** Harmston & Knowlton, 1939a: 256. HT in USNM. Type locality: USA: UT, Monticello. DISTRIBUTION: OR, UT [Vockeroth (personal commun.)].

**hinnulus** Wheeler, 1899: 44. ST in AMNH. Type locality: USA: WY, Lusk. DISTRIBUTION: WY, SD.

- lagotis** Wheeler, 1899: 43. ST in AMNH. Type locality: USA: CA, Monterey.
- lepus** Van Duzee, 1918: 45. LT designated by Arnaud (1979: 277) in CAS. Type locality: USA: CA, Los Angeles Co., Los Cerritos.
- longicorne** Van Duzee, 1933b: 4. ST in AMNH, CAS (1). Type locality: USA: OR, Kiger Is.
- montivagum** Wheeler, 1899: 46. ST in AMNH. Type localities: USA: WY, Lusk; Wind River Mts., Hunter's Creek, 7000–8000 ft. DISTRIBUTION: CA, UT, WY.
- mulinum** Van Duzee, 1922b: 89. HT in CAS. Type locality: USA: CA, San Diego Co., Carrizo Creek.
- nigripes** Harmston & Knowlton, 1943b: 64. HT in USNM. Type locality: USA: UT, Iron Co., Little Salt Lake.
- occidentale** (Aldrich), 1894: 153 (*Sympycnus*). ST in SEMC (2). Type locality: USA: WY. DISTRIBUTION: NV, UT, MT, WY.
- petiolatum** Van Duzee, 1933b: 5. HT in AMNH. Type locality: USA: CA, Monterey Co., Del Monte.
- rotundicorne** Van Duzee, 1926e: 57. HT in CNC. Type locality: CAN: NS, Smith's Cove.
- utahnum** Van Duzee, 1933d: 64. HT in CAS. Type locality: USA: UT, Great Salt Lake, Saltair.
- virens** Harmston & Knowlton, 1943b: 65. HT in USNM. Type locality: USA: UT, Wayne Co., Henry Mts., about 15 mi S of Hanksville.

### Genus SYMPYCNUM Loew, 1857a

- SYMPYCNUM** Loew, 1857a: 42. Type species: *Porphyrops annulipes* Meigen [Palearctic], designation by Coquillett, 1910c: 610. [*S. annulipes* wrongly synonymized with *S. pulicarius* (Fallén, 1823) by Meuffels (1981), followed by Negrobov (1991); see Chandler (1998)].
- GYMNOCEROMYIA** Bigot, 1890: 293. Type species: *Gymnoceromyia andicola* Bigot, by monotypy.
- SYMPICNUS**, error by Bigot (1890: 282).

NOTES: Although *Sympycnus* species are recorded from all over the world, this genus is most diverse in the temperate Neotropics. Robinson (1964) considers the behavior of *Sympycnus* unusual for the family. Although most long-legged flies seek direct sunlight and spend little time in flight, most species (and also those of *Calyxochaetus*) are more common in deep shade and frequently hover over moist rocks and falling water (Foote et al., 1965).

REFERENCES: Van Duzee (1930e; rev.);

- Parent (1932a); Robinson (1964; key, eastern U.S.).
- aldrichi** Van Duzee, 1930e: 39. HT in USNM. Type locality: USA: IN, Lafayette.
- annulipes** (Meigen), 1824: 56 (*Porphyrops*). ST in ?MNHN. Type locality: Germany: Hamburg region. DISTRIBUTION: CA; Palearctic [Parent (1932d)].
- aurifacies** Van Duzee, 1923c: 248. ST in OSU. Type locality: USA: AK, Savonski, Naknek Lake.
- basistylatus** Parent, 1929a: 196. HT in MLUH. Type locality: CAN: BC, Vancouver Island, Victoria.
- brevicauda** Van Duzee, 1932b: 19. ST in CNC (2). Type locality: CAN: QC, Natashquan.
- brevipes** Van Duzee, 1933b: 6. HT in AMNH. Type locality: USA: NY, Long Is., Cold Spring Harbor.
- breviventris** Van Duzee, 1930e: 40. HT in CAS. Type locality: USA: CA, San Diego Co., edge of Colorado Desert. DISTRIBUTION: CA, UT.
- calcaratus** Van Duzee, 1930e: 41. HT in CAS. Type locality: USA: CO, Colorado Springs. DISTRIBUTION: UT, NM, CO.
- clavatus** Van Duzee, 1913a: 271. HT in ANSP. Type locality: USA: NM, Alamogorda. DISTRIBUTION: UT, NM, CO, NE, AZ; MEX [Harmston & Rapp (1983)].
- cuprinus** Wheeler, 1899: 50. ST in AMNH. Type locality: USA: CA, Monterey. DISTRIBUTION: AK, CA, UT, AB.
- fasciventris** Van Duzee, 1917b: 337. HT in CUIC. Type locality: USA: CA, St. Cruz Mts., Fulton. DISTRIBUTION: CA, OR, CO.
- fatuus** Parent, 1932d: 230. HT in MLUH. Type locality: CAN: BC, Victoria.
- globulicauda** Van Duzee, 1930e: 43. HT in CAS. Type locality: USA: CO, Colorado Springs.
- inaequalis** Van Duzee, 1930e: 44. HT in CAS. Type locality: USA: CA, Lake Co., Clear Lake, Konocti Bay.
- laevigatus** Van Duzee, 1930e: 45. HT in CAS. Type locality: USA: CA, Berkeley.
- latitarsis** Van Duzee, 1930e: 46. HT in CAS. Type locality: USA: UT, Wendover.
- jamesi* (Harmston & Knowlton), 1939a: 257 (*Peloropecodes*); synonymized by Foote et al. (1965) after Harmston (in litt.). HT in USNM. Type locality: USA: UT, Blue Creek, R.R. Station.
- lineatus** Loew, 1861a: 67. ST in MCZ. Type localities: USA: NY; VA. DISTRIBUTION: MN to QC, s. to NE, KS, LA, and FL, also Bermuda [Harmston & Rapp (1983); Woodley & Hilburn (1994)].
- longinervis** Van Duzee, 1932b: 18. HT in

AMNH. Type locality: USA: NY, Long Is., Cold Spring Harbor.

**marcidus** Wheeler, 1899: 48. ST in AMNH. Type localities: USA: WY, Little Wind River Canyon; Dinwiddie Creek; Buck Creek; Dubois, 7200 ft. DISTRIBUTION: OR, CA, AB, UT, WY, NE [Harmston & Rapp (1983); Turner (1987)].

**minuticornis** Van Duzee, 1932b: 17. HT in AMNH. Type locality: USA: CO, Aspen.

**montanus** Van Duzee, 1930e: 47. HT in USNM. Type locality: USA: ID, Mount Moscow.

**pectoralis** Van Duzee, 1933b: 7. HT in AMNH. Type locality: USA: NY, Cold Spring Harbor. DISTRIBUTION: ON, NY [Vockeroth (personal commun.)].

**pilosicornis** (Walker), 1848–1849: 653 (*Porphyrops*); listed as unplaced by Foote et al. (1965); however, placement in *Sympycnus* indicated by Parent (1934a). HT in BMNH. Type locality: CAN: ON, Hudson's Bay, Albany River, St. Martin's Falls. NEW COMBINATION.

**pugil** Wheeler, 1899: 51. HT in AMNH. Type locality: USA: WA, Seattle. DISTRIBUTION: BC, WA, OR, CA, UT [Vockeroth (personal commun.)].

*kesseli* (Hendrickson), 1961: 278 (*Neurigona*); synonymized by Bickel (1998b). HT in CAS. Type locality: USA: CA, Humboldt Co., Van Duzen River, west of Grizzly Creek.

**pulvillus** Van Duzee, 1930e: 49. HT in USNM. Type locality: USA: CO, Tennessee Pass, 10,240 ft. DISTRIBUTION: CA, CO.

**setosus** Van Duzee, 1930e: 50. HT in CAS. Type locality: USA: CO, Victor, at about 10,000 ft.

**tertianus** Loew, 1864b: 187. ST in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK, WA [Turner (1987)].

**utahensis** Harmston & Knowlton, 1939a: 258. HT in USNM. Type locality: USA: UT, Cedar Breaks.

### Genus SYNTORMON Loew, 1857a

**PLECTROPUS** Haliday, 1832: 353. Type species: *Musca pallipes* Fabricius, designation by Westwood, 1840: 134 [as "*pallidus* Meig."]; preocc. by *Plectropus* Kirby, 1826.

**SYNTORMON** Loew, 1857a: 35. Type species: *Rhaphium metathesis* Loew [Palearctic], designation by Coquillett, 1910c: 611. Listed in Rhaphiinae by Foote et al. (1965).

**SYNARTHURUS** Loew, 1857a: 35. Type species: *Musca pallipes* Fabricius, by monotypy [once as *tarsatum*; error listed by Foote et al. (1965)].

**EUTARSUS** Loew, 1857a: 45. Type species: *Porphyrops aulicus* Meigen, by monotypy.

**BATHYCRANIUM** Strobl, 1892: 103. Type species: *Dolichopus bicolorellum* Zetterstedt, by

monotypy. Synonymized by Blackith et al. (1995).

**DRYMONOECA** Becker, 1907: 108. Type species: *Drymonoeca calcarata* Becker, by monotypy [= *aulicus* (Meigen), 1824].

**SYNARTHUS**, error by Negrobov (1991: 53).

NOTES: *Syntormon* has a worldwide distribution, with its main radiation in the Holarctic. Most species are riparian and mainly occur on the banks of stagnant or running water bodies, and in open, well-lit, humid habitats such as marshlands and saltmarshes.

REFERENCES: Van Duzee (1925a; rev.); Robinson (1964; key, eastern U.S.).

**affine** (Wheeler), 1899: 38 (*Synarthrus*). ST in AMNH, CNC (1). Type locality: USA: CA, Monterey Co. DISTRIBUTION: CA, NV, UT, AZ.

**bisinuatum** Van Duzee, 1925a: 282. HT in CAS. Type locality: USA: OR, Hood River. DISTRIBUTION: OR, CA.

**californicum** Harmston, 1951a: 15. HT in CAS. Type locality: USA: CA, Modoc Co., 2 mi E of Canby.

**cinereiventre** (Loew), 1861a: 48 (*Synarthrus*). ST in MCZ. Type locality: USA: "Middle States". DISTRIBUTION: AB and ID to ON and QC, s. to TX and FL (NE, IA, MO, WI, TN, IN, NY, MD, NC) [Robinson (1964); Harmston & Rapp (1983)].

**clavatum** Van Duzee, 1925a: 281. HT in CAS. Type locality: USA: NV, Wells. DISTRIBUTION: NV, UT, NE [Harmston & Rapp (1983)].

**dissimilipes** Van Duzee, 1925a: 283. HT in CAS. Type locality: USA: NV, Wells. DISTRIBUTION: NV, ID, UT.

**femoratum** Van Duzee, 1925a: 280. HT in USNM. Type locality: USA: IN, Lafayette.

**flexibile** Becker, 1922b: 55; as *flexibilis*. ST in HNHM, DEI. Type localities: Taiwan: Taihorka; Anping; Tainan. DISTRIBUTION: western Canada, northwestern U.S.; Palearctic, Afro-tropical (St. Helena Is.), Australasia and Oceania, Oriental [Dyte (1967); Bickel (1999)].

*miritarsis* Parent, 1926a: 133; synonymized by Bickel (1995b). ST in NMW. Type locality: China, Zi-Ka-Wei.

*flavomaculatus* Parent, 1926a: 134; as *miritarsis* variety; synonymized by Bickel (1995b). ST in NMW. Type locality: China, Zi-Ka-Wei.

*distortitarsis* Van Duzee, 1933f: 338; synonymized by Dyte (1967). HT in BPBM. Type locality: Hawaii, Oahu, Tantalus, Hering Valley.

*myklebusti* Harmston & Miller, 1966: 90; synonymized by Bickel (1995b). HT in CAS. Type locality: USA: WA, Ilwaco.

*mycklebusti*; error by Bickel (1995b).

- lindneri* Negrobov, 1975: 660; synonymized by Bickel (1995b). HT in ZIN. Type locality: Russia: Far East, Primorsky krai, Primorye, Komarovo-zapovednoe.
- kennedyi** Harmston & Knowlton, 1942d: 23. HT in USNM. Type locality: USA: CO, Cameron Pass. DISTRIBUTION: UT, CO.
- nubilum** Van Duzee, 1933b: 3. HT in CNC. Type locality: CAN: QC, Bradore Bay.
- oregonense** Harmston & Knowlton, 1942d: 25. HT in USNM. Type locality: USA: OR, Portland.
- ornatipes** Van Duzee, 1925a: 277. HT in USNM. Type locality: USA: CO, Marshall Pass. DISTRIBUTION: MT, UT, CO.
- palmare** (Loew), 1864b: 135 (*Synarthrus*). ST in MCZ. Type locality: USA: AK, Sitka. DISTRIBUTION: AK, WA, CA, ID, UT, CO, MI, QC [Beaulieu & Wheeler (2001)].
- simplicitarse** Van Duzee, 1925a: 286. HT in USNM. Type locality: USA: IN, Lafayette.
- strataegum** (Wheeler), 1899: 39 (*Synarthrus*). ST in AMNH. Type localities: USA: CA, Monterey; WY, Lusk. DISTRIBUTION: OR, CA, ID, UT, MT, CO, NE [Harmston & Rapp (1983)]. *strataegrum*; error by Knowlton & Harmston (1937).
- tricoloripes** Curran, 1923d: 209. HT in CNC. Type locality: CAN: BC, Cranbrook. DISTRIBUTION: BC, OR, ID, MT, ON, MI, QC.
- uintaense** Harmston & Knowlton, 1940b: 130. HT in USNM. Type locality: USA: UT, Altonah.
- utahense** Harmston & Knowlton, 1942d: 24. HT in USNM. Type locality: USA: UT, Marysvale.
- vanduzeei** Curran, 1931: 1. HT in AMNH. Type locality: CAN: ON, Arnprior.
- variegatum** Harmston, 1952: 291. HT in USNM. Type locality: USA: CA, Smith River.

### Genus TELMATURGUS Mik, 1874

- TELMATURGUS** Mik, 1874: 349. Type species: *Sympycnus tumidulus* Raddatz [Palearctic], by original designation.

NOTES: *Telmaturgus* is only known from the Palearctic, Nearctic, and the Neotropics, with only three described species. The single Palearctic species, *T. tumidulus*, prefers humid heathland and peatbog areas (Pollet, 2000). The habits of *T. parvus* are unknown.

- parvus** (Van Duzee), 1924b: 45 (*Chrysotus*). HT in CAS. Type locality: USA: NY, Erie Co., Protection. DISTRIBUTION: BC, ON, MI, QC, TN, NY, PA [Vockeroth (personal commun.)]. *perparvus*; error by Johannsen (1928: 773).

### Genus TEUCHOPHORUS Loew, 1857a

- TEUCHOPHORUS** Loew, 1857a: 44. Type species: *Dolichopus spinigerellus* Zetterstedt [Palearctic], designation by Coquillett, 1910c: 613.  
*TEUCOPHORUS*, error by Jacobs (1906: 45).

NOTES: *Teuchophorus* has been recorded from all realms except the Neotropical. The number of species is low in the Holarctic but numerous species have been described from Papua New Guinea (Meuffels & Grootaert, 1986). Species of this genus are hygrophilous and, like *Sympycnus*, occur in rather shaded conditions where they can be found, sometimes in large numbers, on muddy soils.

REFERENCE: Harmston & Knowlton (1946a; key).

- clavigerellus** Wheeler, 1899: 57. HT in AMNH. Type locality: USA: SD. DISTRIBUTION: SD, ON, MI, QC [Vockeroth (personal commun.)].
- condylus** Harmston & Knowlton, 1946a: 671. HT in ?USNM. Type locality: USA: IN, Terre Haute. DISTRIBUTION: IN, ON, CT, ?NY, ?VA [Robinson (1964); Vockeroth (personal commun.)].
- diminuicosta** Harmston & Knowlton, 1942c: 21. HT in USNM. Type locality: USA: UT, Logan Canyon. DISTRIBUTION: UT, PA [Vockeroth (personal commun.)].
- utahensis** Harmston & Knowlton, 1942c: 20. HT in USNM. Type locality: USA: UT, Roosevelt. DISTRIBUTION: WA, UT [Turner (1987)].

### SUBFAMILY XANTHOCHLORINAE ALDRICH, 1905: 294

### Genus XANTHOCHLORUS Loew, 1857a

- XANTHOCHLORUS** Loew, 1857a: 42. Type species: *Medeterus ornatus* Haliday [Palearctic], designation by Coquillett, 1910c: 620.

NOTES: *Xanthochlorus* is restricted to the Holarctic region, with most species known from the eastern Palearctic. The single Nearctic species has a wide distribution. In western Europe, *X. ornatus* and *X. tenellus* are also widely distributed and occur mainly in dry forests.

- helvinus** Loew, 1861a: 75. HT in MCZ. Type locality: USA: IL, Chicago. DISTRIBUTION: WI to NS, s. to IA, IL, and GA (MI, TN, ON, QC, NY, VT, VA, NC) [Robinson (1964); Vockeroth (personal commun.)].



## UNPLACED SPECIES

- contingens** Walker, 1852–1853: 213 (*Dolichopus*). HT in BMNH. Type locality: USA.
- nubilus** Say, 1829–1830: 168 (also in LeConte, 1859: 361) (*Chrysotus*). ST destroyed. Type locality: IN.
- scutellaris* Loew in Parent, 1929a: 173 (*Sciopus*); nomen nudum.
- viridifemora** Macquart, 1850: 428 (1850: 124) (*Chrysotus*). HT in ?MNHN. Type locality: North America.

## SPECIES ERRONEOUSLY RECORDED FROM AMERICA NORTH OF MEXICO

- Amblysilopus lectus** (Becker), 1922a: 366 (*Sciapus*); listed under *Sciapus* in Foote et al. (1965), but placed in *Amblysilopus* by Bickel (1994: 372). HT in ZMHB. Type locality: America. Probably mislabelled and from Australasian realm (Bickel, personal commun.).
- Condylostylus diffusus** (Wiedemann), 1830: 221 (*Psilopus*). ST in NMW. Type locality: Brazil, Rio de Janeiro (as Savannah, Georgia, error, see Loew, 1864b: 234). DISTRIBUTION: Brazil, Puerto Rico.
- Condylostylus guttula** (Wiedemann), 1830: 222 (*Psilopus*). ST in NMW. Type locality: Brazil (as Savannah, Georgia, error, see Loew, 1864b: 237).
- guttulus*; error by Foote et al. (1965: 484).
- Condylostylus hirsutus** Becker, 1922a: 307. HT in NMW. Type locality: “Brazil”.
- Condylostylus superbus** (Wiedemann), 1830: 223 (*Psilopus*). ST in NMW. Type locality: Uruguay, Montevideo.
- Dolichopus micropygus** Wahlberg, 1851: 216. HT in ?NHRs. Type locality: Sweden. DISTRIBUTION: ?CO; Palearctic (northern Europe); the CO record is based on two females from CO which were tentatively identified as this species by Van Duzee (1921c: 295). Ringdahl (1949: 54) has shown that *D. micropygus* is an intersex of *D. fraterculus* Zetterstedt, the latter being unknown from the Nearctic region. The females attributed to *D. micropygus* thus were clearly misidentified (Dyde, personal commun.).
- Dolichopus ungulatus** (Linnaeus), 1758: 598 (*Musca*). HT in LSUK. Type locality: Europe. DISTRIBUTION: Palearctic; WI record in Van Duzee & Curran (1934a, 1934b) and Foote et al. (1965) refers to *D. bruesi* Van Duzee (Dyde, personal commun.).
- Hydrophorus praecox** (Lehmann), 1822: 42 (also 1824: 243) (*Dolichopus*). HT in ?ZMUH. Type locality: Germany. DISTRIBUTION: Pale-

arctic; removed from synonymy with *H. aestuum* Loew and *H. eldoradensis* Wheeler by Hurley (1985).

**Mesorhaga tristis** Schiner, 1868: 217. ST in ?NMW. Type locality: Colombia.

**Sciapus pressipes** Parent, 1929a: 244; synonymized with *Krakatauia evulgata* Becker by Bickel & Dyte (1989); Caroline Is. wrongly interpreted as “Carolina”. HT in MLUH. Type locality: Caroline Is. (Australasian realm).

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## INDEX OF TAXA

The following index provides an alphabetical list of the Nearctic genus- and species-group names included in this catalog. All valid names and synonyms are included as well as errors, emendations, and misidentifications. This index also includes the names of taxa that have been erroneously recorded from North America. Valid generic and subgeneric names are in bold-face, valid species names are in Roman type, and both genus- and species-group synonyms are italicized. A dagger (†) before a page number refers to a misidentification, error, misspelling, or unjustified emendation, which are also italicized. For the purpose of the index, errors are assigned the authorship of the correct names, as they are usually cited in the literature. Names of non-Nearctic generic type species and non-Nearctic senior homonyms of preoccupied names are not included in the index.

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