

BRAUERIA (Lunz am See, Austria) 20:33-50 (1993)

THE TRICHOPTERA OF THE MUSEUM OF COMPARATIVE ZOOLOGY, HARVARD UNIVERSITY

John S. Weaver III

Department of Entomology, University of New Hampshire, Durham NH, 03824, USA.

The Trichoptera Collection in the Museum of Comparative Zoology (MCZ), Harvard University, has resulted primarily from the work of two neuropterists (in the broad sense), Hagen and Banks. However, Banks preferred to be recognized as "an entomologist" and not just a specialist of a few orders. The collection is especially important to science because it contains a great number of primary types, mostly from North America, but many are from Africa, Asia, Australia, Europe and South America, too. Herman August Hagen (1817-1893) left Königsberg, East Prussia in 1867 at the invitation of Louis Agassiz to take charge of the Entomology Section at the MCZ. He became Professor of Entomology at Harvard in 1870 and worked until he was stricken with paralysis in 1890 (Mallis 1971). Nathan Banks (1868-1953), Fig.1, began working at the MCZ in November 1916, at which time he donated to the institute his extensive library and his personal collection of more than 120,000 specimens, of which 1,800 were types. Prior to this he had worked for the United States Department of Agriculture in Washington, DC, for 26 years. He became an Associate



Fig. 1. Nathan Banks (1916), courtesy of the MCZ.

Professor of Zoology in 1928, Head Curator of Insects in 1941, retired in 1945, and remained active for another five years. Like Hagen, he worked until his strength failed him (Carpenter and Darlington 1954). A short poem has been entered on the opening page of a few of the early volumes of the MCZ Entomology Type Catalogue. Some of these are by Banks, including the following verse, dated 1.20.38:

With joy I add each number
Another type will be
Eternally in slumber
In the good old M.C.Z.

The species descriptions by Hagen and Banks, by present standards, are rather poor, because most of their descriptions were without figures of the genitalia, but sometimes Banks provided crude figures, often based on unrelaxed genitalia. Most of Hagen and Banks' caddisflies from the New World have been redescribed by Ross (1938), Flint (1966, 1967) and others.

The Trichoptera Collection at the MCZ is in good condition, having the series of each species housed in separate unit trays. Over the past few years, I have had the opportunity to visit Harvard University on a semiregular basis, usually to attend the monthly meetings of the Cambridge Entomological Club, and have compiled a list of the caddisflies species in the collection, including an inventory of the types. I have verified the presence of types in the collection with those listed in the MCZ Entomology Type Catalogue, and have located types for all the Trichoptera listed, except *Limnephilus sperryi* (Banks). A list of the caddisflies in the Harris Collection, which is separate from the main collection at the MCZ, also is provided at the end of this work.

THE MAIN COLLECTION

HAGEN'S LABELS. Hagen did not designate specimens as types either in the collection or in publication, because it was not customary at the time. His determination (det.) label usually was placed on only one specimen, the first in a series, with an asterisk next to the species name, Fig.2A. These labels were on white paper, written with a bit of flair using a quill and black ink.

BANKS' LABELS. Most of the caddisfly specimens in the collection have been determined by Banks, who used two different kinds of det. labels: 1) The first label is large, rectangular, with red borders and the species name, Fig.2B. It was used to designate the first specimen in a series. For specimens also in a type series, this label would have the type status of the specimen written in the lower left corner, and this notation often corresponds more accurately with the listing in the catalogue than the red MCZ type labels. 2) The second kind of label is a minute white label with the species epithet written in ink and placed below all other labels; this label was placed on specimens, other than those that have Banks' red-bordered det. labels.

MCZ TYPE LABELS. Sometime in the early 1900's, a type labeling and cataloging system was initiated at the MCZ. In the Trichoptera collection the vast majority of red MCZ type labels were numbered and designated by Banks, and likewise most of the corresponding entries in the MCZ Entomology Type Catalogue were by Banks. Each type specimen has a conspicuous red MCZ type label with a

hand-written five-digit catalogue number. Banks would also place an inconspicuous type label on the specimen he selected as the type, a minute piece of red paper, placed on top of the other labels, with "type" in small hand-writing, Fig.2B. There are four different kinds of MCZ type labels: (1.) Fig.2A: The oldest is a two-layered rectangular label, with a small glossy red square piece of paper glued over a slightly larger white rectangular piece, having the catalogue number written in ink on the red field and "Type" printed in small type above it on the exposed white field. This kind of label was used for types numbered from 1 to 10755. It was used in labeling each syntype, and was assigned to most of Hagen's types and Banks' early types. (2.) Fig.2B: The second kind of M.C.Z. type label is square with sides 10mm long and two-layered, with a glossy red piece of paper glued over another varied piece, and the borders of the label were trimmed after the two layers were glued together; "Type" is printed in large bold type at the top of the label, with the catalogue number written below. This kind of label was used for types numbered from about 10758 to 17276. It was used in labeling each syntype and assigned to the types of most of Banks' Trichoptera described before 1932. (3.) Fig.2C: The third kind of type labels was printed on a piece of dull red paper, with "M.C.Z." printed in black at the top and "Type" in the middle, and with the catalogue number written below. This label usually was assigned only to the unique type specimen, i.e. equivalent to holotype. A similar label reading "M.C.Z. Paratype" was assigned to paratypes. (Sometimes type labels were altered with "Holo" "Allo" or "Co" written in front of "Type".) This kind of label was used by Carpenter, Milne, and Banks and was assigned to types numbered 19440 to 29669, for caddisflies described after 1932. (4.) Fig.2D: The fourth variety of MCZ type labels have red labels for holotypes, with "HOLOTYPE" printed at the top, followed by the name of the species and the catalogue number written below, and with "teste" printed below and followed by the name of the person who assigned the label. This label corresponds with a similar yellow paratype label, which should not bear a catalogue number. This type-labeling system was initiated by R.J. McGinley, A.F. Newton and M.K. Thayer on May 28, 1980, beginning with MCZ Type 32532, and is still in current use.

DEPOSITORIES OF HAGEN AND BANKS' TYPES. The majority of Hagen and Banks' types are at the MCZ, but some have been deposited elsewhere. Because Hagen and Banks often did not indicate in their publications where type were deposited, it is difficult to be certain where they are located. Banks first mentioned the place of deposition of his caddisfly types in publication in (1913), but he did not repeat this until (1918), after which it became a semiregular practice in his later works. I have found that several of Banks' types from southeast Asia are at The Natural History Museum, formerly the British Mus. (Nat. Hist.), (Weaver 1985), and that a few of his cotypes are at the Academy of Natural Sciences of Philadelphia. Also, the MCZ types and some paratypes of 23 species of Australian caddisflies were transferred in 1971 to the Australian National Insect Collection in Canberra (pers. comm. Furth, Neboiss 1983). Based on the presence of cotypes and determined specimens by other authors at the MCZ, it is evident that Banks exchanged material with Ross, Martynov, Mosely, Ulmer, and others, and Hagen perhaps traded material with Kolenati, McLachlan, Rambur and Pictet. Thus, it would seem likely that many specimens were offered in exchange to colleagues, and that Hagen and Banks' cotypes are scattered among several museum collections throughout the world. Those who may wish to borrow Trichoptera material from the MCZ should contact Dr. David G. Furth, Curatorial Associate, Department of Entomology, Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, 02138, U.S.A.

MILNE'S LABELS. Lorus Johnson Milne (1910-1987) earned his Ph.D. at Harvard in 1936 (cf. Trichoptera Newsletter 15, 1988). He designated several types in the collection, usually with the standard MCZ type labels, and sometimes with his own purple, red or yellow labels. Several of his "type" labels are invalid because the type designations were not published. Milne's types are either in the MCZ or the Illinois Natural History Survey Collection (Webb 1980).

MISCELLANEOUS LABELS. Ramber's locality labels are dull olive-green. Specimens from Kolenati bear a bright green label with his name. Ulmer's labels are small and bordered with two thin black lines; his type labels from the Selys Collection are large rectangular and grey, with "Type" printing in red. Some blue plesiotype labels are present.

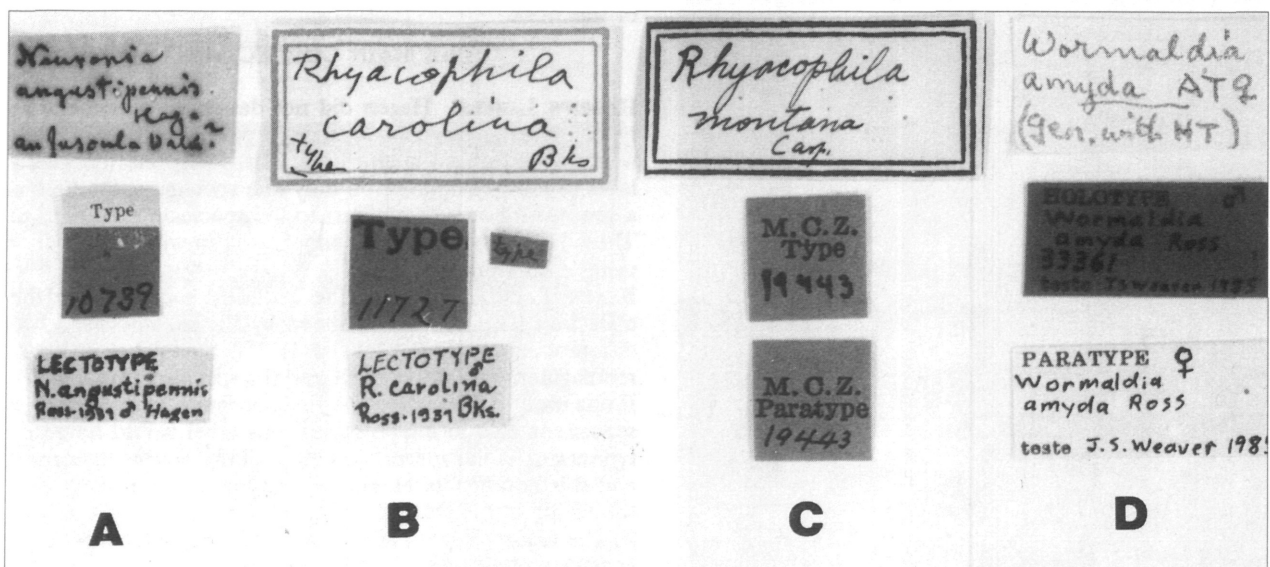


Fig. 2. MCZ type labels: A. Det. label by Hagen, top; 1st kind (oldest), red type label, middle; yellow lectotype label by Ross, bottom. B. Det. label by Banks with red border, top; 2nd kind (most common), red type label, and minute type label, middle; yellow lectotype label by Ross. C. Det. label by Carpenter with black border, top; 3rd kind, red type label, middle; and corresponding red paratype label, bottom. D. Rough det. label by Ross, top; 4th kind (in present use), red holotype label, middle; and corresponding yellow paratype label, bottom.

LECTOTYPES. Subsequent workers have designated lectotypes for many of Hagen and Banks' species, and several lectotypes have been selected by Ross (1938, 1952), Flint (1967), and others. Ross usually selected as lectotype, the specimen that either Hagen or Banks had regarded as the type, i.e. the first labeled specimen in the type series, except when it was a female and a male syntype was available, the male was selected instead. The labels of lectotypes designated by Banks, Mosely, Morse and Weaver are yellow.

Four lectotypes at the MCZ are designated as follows.

1. *Cyrtoneura minutissimella* Chambers 1873, (presently in the genus *Neotrichia*, Hydroptilidae).

Lectotype: ♂ "*Cyrtoneura minutissimella* Chambers Kentucky" "Type 11107". This lectotype designation was recommended to me by Dr. Oliver S. Flint, Jr, who examined the specimen previously.

2. *Tinodes tagalica* Banks 1937, (Psychomyiidae).

Lectotype: ♂ "Mt. Mayo, Davao Mindanao, Phil. Islds. 4-5,000 ft. Jan 27" "M.C.Z. Type 22067", preparation made of the genitalia. This lectotype was selected from a ♂ and ♀ mounted on the same point and labeled as the type. I have remounted the other ♀ syntype on a separate pin.

3. *Neuronia lapponica* Hagen 1864, (presently in the genus *Oligotricha*, Phryganeidae).

Lectotype: ♂ "Lapponia Keitel" "Type 10742", preparation made of the genitalia. This lectotype was selected from a series of 7 syntypes, all labeled as "Type 10742".

4. *Beraea nigrita* Banks 1897, (Beraeidae).

Lectotype: ♀ "Sea Cliff N.Y." "Type 11724", preparation made of the wings and body. This lectotype was selected from 2 ♀ mounted on the same point and labeled as the type. I have remounted the other ♀ syntype on a separate pin.

EXPLANATION OF THE SPECIES LIST. The listing of species names follows the arrangement of the collection. The initial names in bold are in current use, and where new combinations have occurred, the original generic name in italics follows after the author. The original names of junior synonyms are indented and in italics, and listed only if specimens labeled as such are present; brackets are mine.

Abbreviations are as follows: A: allotype; 2ndA: secondary allotype; C: cotype; det: determined by; etoh: alcohol collection; H: holotype; L: lectotype; La: lectoallotype; N: neotype; n.nov. nomen novum; n.nud. nomen nudum; P: paratype; ples: plesiotype, a specimen designated as an example of a known species (Fernald 1939); spec: specimen; topo: toptype, a specimen from the type locality (Fernald 1939); ANIC: Australian National Insect Collection; ANSP: The Academy of Natural Sciences of Philadelphia; MCZ: Museum of Comparative Zoology; NMNH: United States, National Museum of Natural History, Smithsonian Institution.

Data from the red MCZ type labels are quoted in full with the catalogue number, except for duplicates labeled as paratypes or cotypes. When there is more than one type labeled in the same manor in a series, the number of types labeled as such is given preceding the data taken from the type label. For example: 1) "4: Type 11093, L, La, (Ross 1938)" means that 4 syntypes are each labeled, "Type 11093" and that Ross (1938) designated a lectotype and a lectoallotype from the type series. 2) "M.C.Z. Type 22074, 4P" means that one specimen is uniquely labeled, "M.C.Z. Type 22074", and four other specimens are each labeled "M.C.Z. Paratype 22074". 3) "4C: Type 11009" means that four specimens each labeled "Type 11009", but are actually cotypes, or that there is some indication, either from other labels or the type catalogue, that these specimens are cotypes.

TYPES. I suspect that a few of the specimens labeled as "Type" are not actually primary types. Banks' early entries in the type catalogue often do not make the distinction between primary and secondary types, and apparently he

was very liberal in placing type labels on specimens that were merely plesiotypes or toptypes. For example the unique type of *Lepidostoma podagrum* (McLachlan) is at The Natural History Museum (pers. comm. P.C. Barnard), yet there is one type-labeled specimen of *L. podagrum* at the MCZ and another at the Illinois Natural History Survey, both of which are probably plesiotypes, but certainly not primary types. Therefore, I recommend that the "types" listed herein should be verified with the information as provided in the original species descriptions; I have only listed the data from the "type" labels or as listed in the type catalogue. Also, references are listed for all lectotypes and neotypes, and all new nomina nuda have been ignored.

MIXED TYPE SERIES. The type series of some species have become separated in a few instances, usually when a worker has discovered that a type series comprises more than one species, and subsequently some of the syntypes have been relocated in the collection with the species as newly identified. The problem with this practice is that most of the type labels of the syntypes usually do not bear the species name of the original series, and unfortunately Banks' minute det. labels often have been discarded, leaving the type status of relocated syntypes open to misinterpretation. Subsequent workers might incorrectly assume status of the syntypes, unless they happen to notice the different numbers and consult the type catalogue. To clarify this matter, I have made a cross-reference in the species list below of all mixed type series, and have placed the relocated syntypes with their original series in the collection, if specimens are each labeled with new det. labels.

ANNULIPALPIA MARTYNOV

GLOSSOSOMATIDAE WALLENGREN

GLOSSOSOMATINAE WALLENGREN

Agapetus abbreviatus Ulmer.

Agapetus artesus Ross, etoh.

Agapetus boulderensis Milne, M.C.Z. Type 22398.

Agapetus caucasicus Martynov.

Agapetus celatus McLachlan, etoh.

Agapetus curvidens Ulmer.

Agapetus cyrnensis Mosely, 4P: Type 16447.

Agapetus delicatulus McLachlan, det. Mosely.

Agapetus diversus (McLachlan), *Pseudoagapetus*, det. Mosely.

Agapetus dubitans (McLachlan), *Synagapetus* [wings & cases].

Agapetus fuscipes Curtis.

Rhyacophila incolor Pictet, C: Type 11084 [wing].

Rhyacophila lanata Pictet, C: Type 11083 [wings].

Agapetus illini Ross, M.C.Z. Paratype 23563 etoh.

Agapetus insons (McLachlan), *Pseudoagapetus*, 4C: Type 11088.

Agapetus iridipennis (McLachlan), *Synagapetus*.

Rhyacophila azurea non Linnaeus, Pictet, C: Type 11087.

Agapetus laniger (Pictet), *Rhyacophila*, C: Type 11085.

Agapetus malleatus Banks, 2: Type 11723; L, La (Ross 1938).

Agapetus marlo Milne, 3: M.C.Z. Paratype 22399.

Agapetus medicus Ross, etoh.

Agapetus minutus Sibley.

Agapetus monticolus Banks, P; [M.C.Z. Type 22096 & 2P in ANIC (Neboiss 1983)].

Agapetus nimbulus McLachlan, det. Mosely.

Agapetus oblongatus Martynov.

Agapetus ochripes Curtis.

Rhyacophila comata Pictet.

Agapetus pinatus Ross, etoh.

Agapetus rama Schmid, 2: M.C.Z. Paratype 29669.

Agapetus rudis Hagen, 7: Type 11086; L (Ross 1952).

Glossosoma aequale Banks, 4: M.C.Z. Paratype 23434.

Glossosoma alascense Banks, etoh.

Glossosoma altaicum (Martynov), *Mystrophora*.

Glossosoma anale Martynov.

Glossosoma atrichum Ross, H: M.C.Z. Type 30905.

Glossosoma bokoni Curtis.

Rhyacophila decolorata Pictet, C: Type 11082 [wings].

Glossosoma caudatum Martynov.

Glossosoma kellyi Ross, n.nov. for *G. minutum* Banks, M.C.Z. Paratype 26680.

Glossosoma lividum (Hagen), *Tinodes*, Type 11081; [L by Ross (1938) absent].

Glossosoma americana Banks, Type 11746.

Glossosoma malayanum Banks, P: M.C.Z. Type 20188.

Glossosoma nigrior Banks, 3: Type 11745; L, La (Ross 1938).

- Glossosoma parvulum Banks, 3: Type 11748; L, La (Ross 1938).
 Glossosoma penitus Banks, Type 11726.
 Glossosoma spoliatum McLachlan, det. Mosely.
 Glossosoma taeniatum Ross & Hwang, M.C.Z.Paratype 30906.
 Glossosoma traviatum Banks, M.C.Z.Type 22665.
 Glossosoma valvatum Ulmer.
 Glossosoma ventrale Banks, Type 11747, etoh.
 Glossosoma verdona Ross, etoh.
- PROTOPTILINAE ROSS**
 Antoptila brasilliana Mosely, P: Type 23594.
 Carboptila calcigena Flint.
 Mexitrichia albolineata (Ulmer), *Mortoniella*.
Mexitrichia teutona Mosely.
 Mexitrichia aries Flint, P.
 Mortoniella bilineata Ulmer.
 Protoptila balmorhea Ross, M.C.Z.Paratype 26855.
 Protoptila bicornuta Flint, M.C.Z.Holotype 30408.
 Protoptila coloma Ross, etoh.
 Protoptila erotica Ross, M.C.Z.Paratype 23588 etoh.
 Protoptila lega Ross, M.C.Z.Paratype 26854.
 Protoptila maculata (Hagen), *Beraea*, 4: Type 11093; L, La (Ross 1938).
 Protoptila resolda Mosely, M.C.Z.Paratype 23022.
 Protoptila tojana Mosely.
- HYDROPTILIDAE STEPHENS**
HYDROPTILINAE STEPHENS
 Agraylea multipunctata Curtis.
Allotrichia flavida Banks, 3: Type 11593; L (Ross 1938).
Agraylea fraterna Banks, 3: Type 11591; L (Ross 1938).
Allotrichia signata Banks, Type 11594.
 Agraylea sexmaculata Curtis.
Agraylea pallidula McLachlan.
 Chrysotrichia dotalugola Schmid, 2: M.C.Z.Paratype 29666.
 Costatrichia simplex Flint, 3P.
 Exitrichia digitata Mosely, M.C.Z.Paratype 23028.
 Exitrichia olorina Mosely, M.C.Z.Paratype 23021.
 Exitrichia oxima Mosely, M.C.Z.Paratype 23024.
 Hydroptila acuta Mosely, etoh.
 Hydroptila ajax Ross, M.C.Z.Paratype 23581 etoh, det. Ross.
 Hydroptila albicornis Hagen, Type 11105 [lectotype label by Ross (1938) not present].
 Hydroptila ampoda Ross, etoh.
 Hydroptila angulata Mosely, P: Type 16461 etoh.
 Hydroptila angusta Ross, M.C.Z.Paratype 23582 etoh, det. Ross.
 Hydroptila agrosa Ross, M.C.Z.Paratype 23583 etoh.
 Hydroptila bifurcata Mosely, P: Type 16462 etoh.
 Hydroptila consimilis Morton.
 Hydroptila forcipata (Eaton), *Phrixocoma*.
 Hydroptila gunda Milne, M.C.Z.Type 22382.
 Hydroptila hamata Morton, etoh, det. Ross.
 Hydroptila icona Mosely, M.C.Z.Paratype 23023.
 Hydroptila kirilawela (Schmid), *Oxydroptila*, 3: M.C.Z.Paratype 29668.
 Hydroptila kurukepitiya Schmid, 2: M.C.Z.Paratype 29667.
 Hydroptila maculata (Banks), *Allotrichia*, 14: Type 11595; L (Ross 1938).
Hydroptila transversa Banks, Type 11592; L (Ross 1938).
 Hydroptila melia Ross, M.C.Z.Paratype 23584 etoh.
 Hydroptila occulta Eaton, etoh.
 Hydroptila paschia Mosely.
 Hydroptila pecos Ross, M.C.Z.Paratype 26856.
 Hydroptila perdita Morton, det. Ross.
 Hydroptila pulchricornis Pictet, Type 11103.
 Hydroptila rono Ross, 2: M.C.Z.Paratype 26850.
 Hydroptila simulans Mosely, P: Type 16460 etoh.
 Hydroptila sparsa Curtis, det. Kolenati.
 Hydroptila spatulata Morton, det. Ross.
 Hydroptila tineoides Dalman.
 Hydroptila uncinata Morton, etoh.
 Hydroptila vectis Curtis
Hydroptila maclachlani Klapálek, det. Mosely, etoh.
 Hydroptila vectis var. corsicana (Mosely), as var. of *maclachlani*, P: Type 16459 etoh.
 Hydroptila virgata Ross, M.C.Z.Paratype 23585 etoh.
 Hydroptila waubesianae Betten, det. Ross.
 Hydroptila xera Ross, det. Ross.
 Ithytrichia lamellaris Eaton.
 Leucotrichia fairchildi Flint, M.C.Z.Holotype 32107.
 Leucotrichia pictipes (Banks), *Orthotrichia*, 5: Type 11597; L, La (Ross 1938), etoh.
 Mayatrichia ayama Mosely, det. Ross.
 Mayatrichia ponta Ross, M.C.Z.Paratype 26861, etoh.
 Metrichia nigrilla (Banks), *Orthotrichia*, 3: Type 11596; L (Ross 1938).
 Neotrichia caxima (Mosely), *Guerotrichia*, M.C.Z.Paratype 23027.
 Neotrichia edalis Ross, M.C.Z.Paratype 26858.
- Neotrichia falca Ross, det. Ross.
 Neotrichia heleios Flint, M.C.Z.Holotype 30410.
 Neotrichia minutissimella (Chambers), *Cyellene*, Type 11107 [L, cf. text].
 Neotrichia okopa Ross, 2: M.C.Z.Paratype 26860.
 Neotrichia riegei Ross, M.C.Z.Paratype 26859.
 Ochrotrichia anisca (Ross), *Polytrichia*, 2: M.C.Z.Paratype 26851.
 Ochrotrichia arva (Ross), *Polytrichia*, M.C.Z.Paratype 26852.
 Ochrotrichia contorta (Ross), *Polytrichia*, M.C.Z.Paratype 26853.
 Ochrotrichia logana (Ross), *Polytrichia*, 2: M.C.Z.Paratype 26849.
 Ochrotrichia trapoiza Ross, P etoh.
 Ochrotrichia tarsalis (Hagen), *Hydroptila*, Type 11104 [L by Ross (1938) absent].
 Orthotrichia aegerfasciella (Chambers), *Clymene*.
Orthotrichia americana Banks, 6: Type 11598; L, La (Ross 1938).
Oxyethira dorsalis Banks, 5: Type 11600; L (Ross 1938).
Orthotrichia angustella (McLachlan), *Hydroptila*.
Hydroptila brunneicornis Pictet, C: Type 11101.
 Orthotrichia cristata Morton, etoh, det. Ross.
 Oxyethira aculea Ross, M.C.Z.Paratype 26857.
 Oxyethira arizona Ross.
Oxyethira cirrifera Flint.
 Oxyethira azteca (Mosely), *Loxotrichia*, M.C.Z.Paratype 23025.
 Oxyethira costalis (Curtis), *Hydroptila*, det. Mosely.
 Oxyethira dualis Morton, det. Ross.
 Oxyethira falcata Morton, det. Mosely, etoh.
 Oxyethira flavicornis (Pictet), *Hydroptila*, C: Type 11102.
 Oxyethira forcipata Mosely, det. Ross.
 Oxyethira grisea Betten, etoh.
 Oxyethira janella Denning.
 Oxyethira pallida (Banks), *Orthotrichia*, 5: Type 11599; L, La (Ross 1938).
 Oxyethira serrata Ross, M.C.Z.Paratype 23586 etoh.
 Oxyethira simplex Ris, etoh.
 Oxyethira simulatrix Flint, P.
 Oxyethira tega Flint, 2P.
 Oxyethira ulmeri (Mosely), *Dampfitrichia*, M.C.Z.Paratype 23026, det. Ross.
 Plethrus cursitans (Hagen), *Hydroptila*, 8: Type 11106; L (Ross 1952), det. Schmid.
 Stactobia atra Hagen, det. Mosely.
 Stactobia eatoniella McLachlan, det. Mosely.
 Stactobia fuscicornis (Schneider), *Hydroptila*, 4: Type 14898.
 Stactobia palmata (Ross), *Stactobia*, etoh.
 Zumatrichia echinata Flint.
 Zumatrichia muttisetosa Flint, 10P.
PTILOCOLEPINAE MARTYNOV
 Palaeagapetus celsus Ross, M.C.Z.Paratype 23587 etoh.
 Palaeagapetus nearcticus Banks, M.C.Z.Type 22664, P.
 Ptilocolepus dilatatus Martynov.
 Ptilocolepus granulatus (Pictet), *Rhyacophila*.
- RHYACOPHILIDAE STEPHENS**
 Himalopsyche alticola Banks, 6: M.C.Z.Paratype 23439.
 Himalopsyche anomala Banks, 3: M.C.Z.Paratype 23436.
 Himalopsyche auricularis (Martynov), *Rhyacophila*.
 Himalopsyche hageni Banks, 3: M.C.Z.Paratype 23437.
 Himalopsyche lachlani Banks, 2: M.C.Z.Paratype 23438.
 Himalopsyche navasi Banks, M.C.Z.Type 23440.
 Himalopsyche placida Banks, M.C.Z.Paratype 26682.
 Himalopsyche tibetana (Martynov), *Rhyacophila*, P: Type 16446.
 Rhyacophila albardana McLachlan.
 Rhyacophila alberta Banks, Type 10073, etoh.
 Rhyacophila aliena Martynov.
 Rhyacophila angelita Banks, Type 11731.
Rhyacophila bipartita Banks, Type 11733.
 Rhyacophila aquitanica McLachlan, 2C: Type 11075.
 Rhyacophila atrata Banks, 2: Type 11739; L, La (Ross 1938), etoh.
 Rhyacophila aurata Brauer, Cotype M.C.Z.22186.
 Rhyacophila banksi Ross, 2: M.C.Z.Paratype 26838.
 Rhyacophila basalis Banks, Type 11734, etoh.
 Rhyacophila bifila Banks, Type 11736.
 Rhyacophila blarina Ross, M.C.Z.Paratype 26847.
 Rhyacophila brunnea Banks, 2: Type 11735; L (Ross 1938).
Rhyacophila acropedes Banks, 3: Type 11741; L (Ross 1938).
 Rhyacophila cameroni Banks, Type 16484.
 Rhyacophila carolina Banks, 6: Type 11727; L, La (Ross 1938); [C at ANSP].
 Rhyacophila carpenteri Milne, M.C.Z.Type 22393, 15P.
 Rhyacophila castanea (Hagen), *Agapetus*, Type 11079; L (Ross 1952).
 Rhyacophila coloradensis Banks, 2: Type 11728; L (Ross 1938).
Rhyacophila anomala Banks, Type 14854, etoh.
 Rhyacophila contracta McLachlan, det. Mosely.
 Rhyacophila denticulata McLachlan, C: Type 11069.
 Rhyacophila dorsalis (Curtis), *Phiolpotamus*.

- Rhyacophila evoluta* McLachlan.
Rhyacophila extensa Martynov.
Rhyacophila carletoni Banks, Type 16422.
Rhyacophila fasciata Hagen, Type 11067; L (Ross 1952).
Rhyacophila fenestra Ross, M.C.Z.Paratype 23590 etoh.
Rhyacophila formosa Banks, Type 11729; L (Ross 1938).
Rhyacophila formosana Ulmer.
Rhyacophila fraudulentula McLachlan, C: Type 11070.
Rhyacophila fuscula (Walker), *Neuronia*.
Rhyacophila glaberrima Ulmer; 2ndA (Carpenter 1933).
Rhyacophila fairchildi Banks, 2: Type 16327; L, La (Ross 1938).
Rhyacophila glareosa McLachlan.
Rhyacophila grahami Banks, M.C.Z.Paratype 23435.
Rhyacophila grandis Banks, 3: Type 11737; L, La (Ross 1938).
Rhyacophila hirticornis McLachlan, C: Type 11072.
Rhyacophila hyalinata Banks, 3: Type 11738; L (Ross 1938).
Rhyacophila intermedia McLachlan.
Rhyacophila invaria (Walker), *Polycentropus*.
Rhyacophila luctuosa Banks, 5: Type 11740; L, La (Ross 1938); [C at ANSP].
Rhyacophila isolata Banks, M.C.Z.Paratype 20186.
Rhyacophila kimminsi Ross, det. Weaver.
Rhyacophila laevis Pictet.
Rhyacophila flavipes Pictet, C: Type 11076 [wings].
Rhyacophila latipennis Pictet, C: Type 11074.
Rhyacophila liliputana Banks, M.C.Z.Type 23432.
Rhyacophila mainensis Banks, Type 11730.
Rhyacophila malayana Banks, 2: Type 16483.
Rhyacophila manistee Ross, M.C.Z.Paratype 23591 etoh.
Rhyacophila marcida Banks, M.C.Z.Paratype 26681.
Rhyacophila martynovi Mosely, P: Type 16445.
Rhyacophila meridionalis Pictet.
Rhyacophila minor Banks, 3: Type 14857; L, La (Ross 1938).
Rhyacophila minuta Banks, M.C.Z.Type 23433.
Rhyacophila montana Carpenter, M.C.Z.Type 19443, 2P, [montana A is damaged ♂ of torva].
Rhyacophila munda McLachlan, 2: Cotype M.C.Z.22188.
Rhyacophila nevadensis Banks, 3: Type 14855; L, La (Ross 1938), etoh.
Rhyacophila nigra Martynov.
Rhyacophila nigrita Banks, 2: Type 11742; L (Ross 1938).
Rhyacophila norcuta Ross.
Rhyacophila nubila (Zetterstedt), *Pyriganea*.
Rhyacophila paupera Hagen, Type 11066; L (Ross 1952).
Rhyacophila oblitterata McLachlan.
Rhyacophila obtusidens McLachlan.
Rhyacophila occidentalis McLachlan, det. Mosely.
Rhyacophila oprys Ross, P etoh.
Rhyacophila pacifica Banks, Type 11744.
Rhyacophila pallida Mosely, det. Mosely.
Rhyacophila parantra Ross, P etoh.
Rhyacophila pascoei McLachlan.
Rhyacophila persimilis McLachlan, 2C: Type 11071.
Rhyacophila philopotamoides McLachlan, det. Mosely.
Rhyacophila polonica McLachlan.
Rhyacophila hageni McLachlan, 2C: Type 11077.
Rhyacophila praemorsula McLachlan.
Rhyacophila proxima McLachlan, det. Mosely.
Rhyacophila pubescens Pictet, P: Type 14513.
Rhyacophila relegata Schmid, Holotype 33358.
Rhyacophila relicta McLachlan, det. Mosely.
Rhyacophila retracta Martynov.
Rhyacophila rotunda Banks, 3: Type 14856; L, La (Ross 1938), det. Ross.
Rhyacophila septentrionis McLachlan, [possibly M.C.Z.cotype 11068; M.C.Z.label absent, spec. with penciled type label].
Rhyacophila shenandoahensis Flint, det. Weaver.
Rhyacophila sinensis Martynov, topo.
Rhyacophila stigmatica (Kolenati), *Crunophila*.
Rhyacophila torrentium Pictet, Cotype M.C.Z.22185.
Rhyacophila armeniaca Guérin-Méneville, M.C.Z.Type 22187.
Rhyacophila torva Hagen, 4: Type 11078; L (Ross 1938).
Rhyacophila terminata Banks, Type 11743.
Rhyacophila vinura Milne, M.C.Z.Type 22397, [cf. montana].
Rhyacophila tristis Pictet.
Rhyacophila biguttata Pictet, C: Type 11073 [wings].
Rhyacophila vacua Milne, 4: M.C.Z.Paratype 22392.
Rhyacophila bruesi Milne & Milne, P: [no. 25698] etoh.
Rhyacophila vaeves Milne.
Rhyacophila vujuna Milne.
Rhyacophila vagrita Milne, M.C.Z.Paratype 22394.
Rhyacophila valuma Milne, M.C.Z.Paratype.
Rhyacophila vao Milne, 2: M.C.Z.Paratype 22395.
Rhyacophila vu Milne.
Rhyacophila vedra Milne.
Rhyacophila verrula Milne, 4: M.C.Z.Paratype 22396, etoh.
Rhyacophila vetina Milne.
- Rhyacophila viquaea* Milne.
Rhyacophila visor Milne.
Rhyacophila vocala Milne.
Rhyacophila voffixa Milne.
Rhyacophila vulgaris Pictet, Cotype M.C.Z.22184.
- HYDROBIOSIDAE ULMER**
Apsilochorema malayanum Banks, 4: Type 16488.
Atopsyche banksi Ross, M.C.Z.Holotype 30903.
Atopsyche batesi Banks, 2: M.C.Z.Type 22105, P; L (Flint 1967).
Atopsyche bolivari Banks, 4: Type 14839; L (Flint 1967).
Atopsyche cubana Flint, M.C.Z.Holotype 32109.
Atopsyche dampfi Ross & King, M.C.Z.Holotype 30904.
Atopsyche longipennis (Ulmer), *Psilochorema*.
Atopsyche falina Ross & King.
Atopsyche serica Ross, M.C.Z.Holotype 30902.
Atopsyche sperryi Denning, M.C.Z.Type 25757, A.
Atopsyche tripunctata Banks, Type 11511; [A at ANSP].
Dolochorema irregulare Banks, Type 11785.
Hydrobiosella stenocerca Tillyard.
Hydrobiosella umbripennis McLachlan, det. Tillyard.
Neurochorema confusum (McLachlan), *Psilochorema*, det. Tillyard.
Psilochorema mimicum McLachlan, det. Tillyard.
Psyllobetina plutonis Banks, [M.C.Z.Type 22095 in ANIC (Neboiss 1983)].
Ptychobiosis nigrita (Banks), *Notiobiosis*, [M.C.Z.Type 22094 in ANIC (Neboiss 1983)].
Taschorema pallescens (Banks), *Notiobiosis*, [M.C.Z.Type 22093 & P in ANIC (Neboiss 1983)].
Ulmerochorema diffine (Banks), *Apsilochorema*, 2: Type 10918.
- PHILOPOTAMIDAE STEPHENS**
Chimarra albomaculata Kolbe, *Chimarra*.
Chimarra abyssinica Banks, *Chimarra*, Type 11750.
Chimarra alticola Banks, *Chimarra*, M.C.Z.Type 22074, 4P.
Chimarra angustipennis Banks, *Chimarra*, Type 14345.
Chimarra argentella Ulmer, *Chimarra*.
Chimarra argentinica Ulmer, *Chimarra*, C: Type 11807.
Chimarra aterrima Hagen, *Chimarra*, 7: Type 11098; L (Ross 1938).
Chimarra atripennis Banks, *Chimarra*, Type 16506.
Chimarra auriceps Hagen, *Chimarra*, 8: Type 11094; L (Ross 1952), [2 syntypes of *auriceps* are *confusa*].
Chimarra australica Ulmer, *Chimarra*.
Chimarra banksi (Ulmer), *Wormaldia*.
Chimarra bicolor (Banks), *Philopotamus*, Type 11812.
Chimarra braconoides (Walker), *Curgia*.
Chimarra brustia Ross.
Chimarra cara Mosely, *Chimarra*, M.C.Z.Paratype 22450.
Chimarra centralis Ross.
Chimarra circularis Hagen, *Chimarra*, 4: Type 11095; L (Ross 1952).
Chimarra concolor Ulmer, *Chimarra*.
Chimarra confusa Ulmer, *Chimarra*, [cf. *auriceps*].
Chimarra duckorthi Flint.
Chimarra embia Ross.
Chimarra emima Ross.
Chimarra evoluta Kimmins, det. Kingsolver.
Chimarra feria Ross, *Chimarra*, etoh.
Chimarra formosana Ulmer, *Chimarra*.
Chimarra lankana Kimmins, det. Schmid.
Chimarra lewisi Kimmins, det. Schmid.
Chimarra luzonica Banks, *Chimarra*, Type 11771.
Chimarra manni Banks, *Chimarra*, 3: Type 14825.
Chimarra marginata (Linnaeus), *Phryganea*, ples.
Chimarra mexicana (Banks), *Rhyacophila*, Type 11816.
Philopotamus barrettae Banks, Type 11823.
Chimarra moesta Banks, *Chimarra*, Type 14871.
Chimarra obscura (Walker), *Beraea*.
Wormaldia plutonis Banks, 2: Type 11519; L (Ross 1938).
Chimarra obscurella Banks, *Chimarra*, Type 14824.
Chimarra pedalis Banks, *Chimarra*, 2: Type 16487.
Chimarra persimilis Banks, *Chimarra*, 2: Type 10907; L (Flint 1967).
Chimarra pulchra Hagen, *Chimarra*, 2: Type 11100; L (Ross 1952).
Chimarra fraterna Banks, 6: Type 14876.
Chimarra pumila Banks, *Chimarra*, 2: Type 10908; L (Flint 1967).
Chimarra pylaea Denning.
Chimarra sepulcralis Hagen, *Chimarra*, 8: Type 11096; L (Ross 1952).
Chimarra signata Banks, *Chimarra*, M.C.Z.Type 22047, P.
Chimarra socia Hagen, *Chimarra*, Type 11099 [type in etoh].
Wormaldia femoralis Banks, 3: Type 11520; L (Ross 1938).
Chimarra spangleri Bueno.
Chimarra spatulata Ross.
Chimarra spinulifera Flint, M.C.Z.Holotype 32108.

- Chimarra tagalica* Banks, *Chimarra*, M.C.Z. Type 22074, 2P.
Chimarra texana Banks, *Chimarra*, 2: Type 10914; L (Ross 1938).
Dolophilodes aequalis (Banks), *Philopotamus*, Type 14853; L, La (Ross 1938), etoh.
Dolophilodes distincta (Walker), *Philopotamus*.
Philopotamus americanus Banks, 4: Type 11512; L (Ross 1938).
Dolophilodes dorca (Ross), *Philopotamus*.
Dolophilodes japonica (Banks), *Philopotamus*, Type 11834.
Dolophilodes major (Banks), *Dolophilus*, 2: Type 11517; L (Ross 1938).
Dolophilodes obrussa (Ross), *Sortosa*, Holotype 33359.
Dolophilodes occidens Ross, etoh.
Dolophilodes ornata Ulmer.
Philopotamus sinensis Banks, 2: M.C.Z. Paratype 23443.
Dolophilodes pallidipes (Banks), *Philopotamus*, M.C.Z. Type 22666, 4P.
Dolophilodes pectinata (Ross), *Sortosa*, Holotype 33360.
Dolophilodes sisko (Ross), *Wormaldia*, P etoh.
Gumungiella marginalis Banks, M.C.Z. Type 23195.
Gumungiella nietheri Banks, Type 10917.
Philopotamus achemenus Schmid, M.C.Z. Paratype 29851.
Philopotamus corsicanus Mosely, det. Mosely.
Philopotamus flavidus Hagen, 4: Type 11061; L (Ross 1952).
Philopotamus hispanicus McLachlan.
Philopotamus insularis McLachlan, 3C: Type 11060.
Philopotamus ludificatus McLachlan, 12C: Type 11057; 2: ples.
Philopotamus mexicanus Banks, Type 11813.
Philopotamus montanus (Donovan), *Phryganea*, 4: ples.
Philopotamus montanus pyrenaicus McLachlan, C: Type 11058.
Philopotamus siculus Hagen, 2: Type 11059; L (Ross 1952).
Philopotamus variegatus (Scopoli), *Phryganea*, 3: ples.
Vigarrha tibialis Navás.
Wormaldia aticoala (Banks), *Doloclans*, M.C.Z. Type 22072, P.
Wormaldia amyda Ross, Holotype 33361, 2P.
Wormaldia anillus (Ross), *Dolophilus*, etoh.
Wormaldia banksi Ulmer.
Wormaldia mediana Banks nec McLachlan, Type 11826.
Wormaldia copiosa (McLachlan), *Dolophilus*.
Hydropsyche columbina Pictet, C: Type 11063.
Wormaldia gabriella (Banks), *Dolophiliella*, 7: Type 16326; L (Ross 1938), etoh.
Wormaldia gressitti Ross, Holotype 33362.
Wormaldia mediana McLachlan.
Wormaldia moesta (Banks), *Paragapetus*, Type 11725; [C at ANSP].
Dolophilus brevis Banks, 4: Type 11518; L (Ross 1938).
Wormaldia mohri (Ross), *Galinia*, P etoh.
Wormaldia montana (Banks), *Doloclans*, M.C.Z. Type 22071, P.
Wormaldia occidea (Ross), *Dolophilus*.
Wormaldia occipitalis (Pictet), *Hydropsyche*, 2: ples.
Wormaldia pulla (McLachlan), *Dolophilus*.
Wormaldia spinosa Ross, Holotype 33357.
Wormaldia subnigra McLachlan, 2: ples.
Wormaldia triangulifera McLachlan, 2C: Type 11062.

STENOPSYCHIDAE MARTYNOV

- Stenopsyche banksi* Mosely, det. Weaver.
Stenopsyche bergeri Martynov, det. Weaver.
Stenopsyche coreana (Kuwayama), *Parastenopsyche*, det. Weaver.
Stenopsyche drakon Weaver, M.C.Z. Holotype 33343, 9P.
Stenopsyche grahami Martynov.
Stenopsyche laminata Ulmer.
Stenopsyche longispina Ulmer.
Stenopsyche marmorata Navás, det. Weaver.
Stenopsyche martynovi Banks, 10: M.C.Z. Paratype 23441.
Stenopsyche moselyi Banks, 5: M.C.Z. Paratype 23442.
Stenopsyche navasi Ulmer.
Stenopsyche siamensis Martynov, det. Schmid.
Stenopsyche similis Ulmer, det. Weaver.
Stenopsyche stoetzneri Döhler.
Stenopsyche trilobata Tian & Weaver, P.
Stenopsyche yunnanensis Hwang, det. Weaver.
Stenopsychodes melanochrysa Tillard.
Stenopsychodes montanus Tillard.
Stenopsychodes tillyardi Banks, [M.C.Z. Type 22084 & P in ANIC (Neboiss 1983)].

DIPSEUDOPSIDAE ULMER

- Dipseudopsis africana* Ulmer.
Dipseudopsis angustipennis Navás.
Dipseudopsis bakeri Banks, Type 11768.
Dipseudopsis buddha Banks, Type 11737.
Dipseudopsis capensis Walker.
Dipseudopsis collaris McLachlan, C: Type 11080.
Dipseudopsis contorta Banks, Type 16481.
Dipseudopsis curvata Banks, 5: Type 10896.
Dipseudopsis elongata Banks, Type 10882.
Dipseudopsis horni Ulmer, det. Flint.

- Dipseudopsis immaculata* Ulmer.
Dipseudopsis indica McLachlan.
Dipseudopsis infusata McLachlan.
Dipseudopsis modesta Banks, Type 11756.
Dipseudopsis moesta Banks, Type 16480.
Dipseudopsis morosa Banks, 3: Type 14826.
Dipseudopsis nebulosa Alburda.
Dipseudopsis nervosa Brauer.
Dipseudopsis luctuosa Banks, Type 11769.
Dipseudopsis njalana Ulmer.
Dipseudopsis recta Martynov, det. Weaver.
Dipseudopsis robustior Ulmer.
Dipseudopsis simplex Ulmer.
Dipseudopsis spectabilis Banks, Type 16421.
Dipseudopsis stabetensis Malicky & Weaver.
Dipseudopsis tonkinensis Navás, det. Weaver.
Dipseudopsis triclavata Martynov, det. Weaver.
Dipseudopsis varians Ulmer, det. Weaver.
Hyalopsyche rivalis (Betten), *Hyalopsychodes*.
Phylocentropus carolinus Carpenter, M.C.Z. Type 19444, 7P.
Phylocentropus lucidus (Hagen), *Polycentropus*, 2: Type 11037; L (Ross 1938).
Phylocentropus orientalis Banks, Type 16485.
Phylocentropus placidus (Banks), *Holocentropus*, 3: Type 11540; L (Ross 1938), etoh.
Protodipseudopsis bicincta Banks, Type 10893 [abdomen lost].
Protodipseudopsis ajoestediti Ulmer.

POLYCENTROPODIDAE ULMER

- Antillopsyche wrighti* Banks, M.C.Z. Type 25294, 7P; L (Flint 1967).
Cyrnellus fraternus (Banks), *Cyrnus*, 4: Type 11538; L (Ross 1938).
Nyctiophylax marginalis Banks, 3: Type 16325; L (Ross 1938).
Cyrnellus mammillatus Flint.
Cyrnellus minimus Banks, Type 11806; L (Flint 1967).
Cyrnellus risi (Ulmer), *Cyrnus*.
Cyrnus crenaticornis (Kolenati), *Tinodes*.
Cyrnus flavidus McLachlan, ples.
Cyrnus trimaculatus (Curtis), *Philopotamus*, ples.
Holocentropus dubius (Rambur), *Philopotamus*, 2: Cotype M.C.Z. 22183, ples.
Holocentropus picocornis (Stephens), *Polocentropus*, ples.
Holocentropus picocornis var. *auratus* (Kolenati), *Plectrocnemia*, ples.
Holocentropus stagnalis (Albarda), *Nyctiophylax*, 2: ples.
Neureclipsis bimaculata (Linnaeus), *Phryganea*, 2: ples.
Neureclipsis crepuscularis (Walker), *Brachycentrus*, etoh.
Neureclipsis parvula Banks, 3: Type 11509; L (Ross 1938); [C at ANSP].
Neureclipsis valida (Walker), *Polycentropus*.
Polycentropus signatus Banks, Type 11510.
Nyctiophylax abruptus Banks, Type 11767.
Nyctiophylax occidentalis Ulmer.
Nyctiophylax vestitus (Hagen), *Polycentropus*, Type 11036; L (Ross 1938).
Nyctiophylax moestus Banks, 2: Type 11536; L (Ross 1938).
Polycentropus affinis Banks, Type 11537.
Plectrocnemia aurea Ulmer.
Plectrocnemia australica Banks, [M.C.Z. Type 22090 & 2P in ANIC (Neboiss 1983)].
Plectrocnemia banksi Fischer, n.nov. for *P. furcata* Banks, 2: Type M.C.Z. 10913.
Plectrocnemia conspersa (Curtis), *Philopotamus*, 4: ples.
Plectrocnemia corsicana Mosely, det. Mosely.
Plectrocnemia scruposa McLachlan, det. Mosely.
Plectrocnemia tortosa Banks, 3: M.C.Z. Paratype 27675.
Polycentropus albipunctatus (Banks), *Plectrocnemia*, 3: Type 16324; L, La (Ross 1938).
Polycentropus arizonensis Banks, 2: Type 11546; L, La (Ross 1938).
Polycentropus aureolus (Banks), *Plectrocnemia*, 3: Type 16323; L, La (Ross 1938).
Polycentropus aztecus Flint, P.
Polycentropus carolinensis Banks.
Polycentropus centralis Banks, Type 11549.
Polycentropus cinereus Hagen, 3: Type 11039; L, La (Ross 1938).
Polycentropus canadensis Banks, Type 11527.
Holocentropus flavicornis Banks, 3: Type 11526; L (Ross 1938).
Plectrocnemia pallescens Banks, 4: Type 16322; L, La (Ross 1938).
Polycentropus clinei (Milne), *Plectrocnemia*, 3: M.C.Z. Paratype 22383.
Polycentropus confusus Hagen, 3: Type 11038; L (Banks 1936).
Polycentropus corsicus Mosely, P: Type 16538.
Polycentropus crassicornis Walker.
Plectrocnemia adironica Banks, Type 11525.
Plectrocnemia australis Banks, Type 11524.

- Polycentropus domingensis** Banks, M.C.Z.Type 25293, 10P; L (Flint 1967).
- Polycentropus divergens** Mosely, det. Mosely.
- Polycentropus flavomaculatus** (Pictet), *Hydropsyche*.
Hydropsyche brevicollis Pictet, C: Type 11065.
Hydropsyche vitreus Pictet, C: Type 11064.
- Polycentropus flavus** (Banks), *Holocentropus*, Type 11544.
- Polycentropus glacialis** (Ross), *Holocentropus*, M.C.Z.Paratype 23572 etoh.
- Polycentropus grellus** (Milne), *Holocentropus*, M.C.Z.Type 22381, P.
- Polycentropus halidus** Milne, M.C.Z.Type 22400, P.
- Polycentropus insularis** Banks, M.C.Z.Type 22111, P; L (Flint 1967).
- Polycentropus interruptus** (Banks), *Holocentropus*, 4: Type 11543, L (Ross 1938).
Holocentropus longus Banks, 2: Type 11542; L (Ross 1938).
Holocentropus orotus Banks, 3: Type 11541; L, La (Ross 1938).
- Polycentropus irroratus** (Curtis), *Philopotamus*.
Polycentropus multiguttatus McLachlan nec Curtis, ples.
- Polycentropus joergenseni** Ulmer, 2C: 11805.
Polycentropus colombiensis Banks, Type 11797.
- Polycentropus kingi** McLachlan, det. Mosely.
- Polycentropus maculatus** Banks, Type 11550.
- Polycentropus mexicana** (Banks), *Hydropsyche*, Type 11821.
- Polycentropus mortoni** Mosely, 2P: Type 16458.
- Polycentropus nigriceps** Banks, M.C.Z.Type 22674, 2P; L (Flint 1967).
- Polycentropus pentus** Ross, M.C.Z.Paratype 25861.
- Polycentropus remotus** Banks, 2: Type 11547; L (Ross 1938).
- Polycentropus rosselinnus** Navás, probable det. Ross.
- Polycentropus variegatus** Banks, Type 11548.
- Polyplectropus analis** Banks, 5: Type 16486.
- Polyplectropus annulicornis** Ulmer.
- Polyplectropus banksianus** Flint, M.C.Z.Holotype 32110.
- Polyplectropus charlesi** (Ross), *Polycentropus*.
- Polyplectropus costalis** (Banks), *Cordillopsyche*, Type 11784.
- Polyplectropus fijianus** Banks, M.C.Z.Type 22046.
- Polyplectropus grandis** Banks, M.C.Z.Type 22069.
- Polyplectropus irroratus** Banks, 2: Type 16509.
- Polyplectropus manni** Banks, M.C.Z.Type 22045, 3P.
- Polyplectropus nubigenus** (Hagen), *Polycentropus*, Type 11034; L (Ross 1952).
- Polyplectropus philippinensis** Ulmer, probable det. Ross.
- Polyplectropus puerilis** McLachlan, det. Tillyard.
- Polyplectropus unicolor** Banks, Type 16510.
- Polyplectropus ulmeri** Banks, M.C.Z.Type 22070.
- Pseudoneureclipsis funesta** (Hagen), *Chimarra*, 3: Type 11097; L (Ross 1952).
- Pseudoneureclipsis ramosa** Ulmer.
- PSYCHOMYIIDAE WALKER**
- PADUNIELLINAE LESTAGE**
- Mesopuniella uralensis** (Martynov), *Paduniella*.
- Paduniella angusta** Banks, M.C.Z.Type 23196, 4P.
- Paduniella borneensis** Banks, Type 16508.
- Paduniella mahanawana** Schmid, 3: M.C.Z.Paratype 29661.
- Paduniella sanghamittra** Schmid, 3: M.C.Z.Paratype 29663.
- Paduniella subhakara** Schmid, 2: M.C.Z.Paratype 29662.
- Paduniella vikramasinha** Schmid, M.C.Z.Paratype 29664.
- Propaduniella ceylanica** (Ulmer), *Paduniella*, det. Schmid.
- PSYCHOMYIINAE WALKER**
- Austrotinodes "nr. panamensis"** Flint.
- Cernotina calcea** Ross, M.C.Z.Paratype 23567 etoh.
- Cernotina oklahoma** Ross, M.C.Z.Paratype 23566 etoh.
- Cernotina pallida** (Banks), *Cyrnus*, 2: Type 11539; L (Ross 1938).
- Lype diversa** (Banks), *Psychomyia*, 5: Type 11533; L (Ross 1938); [C at ANSP].
- Lype phaeopa** (Stephens), *Anticyra*.
- Lype reducta** (Hagen), *Psychomyia*, 2: Type 11050.
- Metatype fragilis** (Pictet), *Hydropsyche*, C: Type 11051.
- Psychomyia flavida** (Hagen), *Psychomyiella*, 4: Type 11055; L (Ross 1938).
Psychomyia moesta Banks, Type 11535.
Psychomyia pulchella Banks, 3: Type 11534; L (Ross 1938), etoh.
- Psychomyia lumina** (Ross), det. Weaver.
- Psychomyia nomada** (Ross), *Psychomyiella*, M.C.Z.Paratype 23589 etoh.
- Psychomyia pusilla** Fabricius.
Psychomyia acuta Pictet, C: Type 11054.
Psychomyia annulicornis Pictet, C: Type 11053; ples.
Psychomyia tenuis Pictet, C: Type 11052 [thorax in part].
- Psychomyiella ulmeri** Banks, M.C.Z.Type 23194, 18P.
- Psychomyiellodes tropicus** (Ulmer), *Ecnomus*, 2C: Type 11753, det. Ulmer.
- Tinodes adjunctus** Banks, M.C.Z.Type 22068.
- Tinodes agaricus** Mosely, 2P: Type 16449.
- Tinodes cheitani** Schmid, M.C.Z.Paratype 29852.
- Tinodes consuetus** McLachlan.
- Tinodes dives** (Pictet), *Hydropsyche*, C: Type 11045.
Hydropsyche humeralis Pictet, C: Type 11047.
Hydropsyche nigripennis Pictet, C: Type 11046.
Hydropsyche picea Pictet, C: Type 11048.
Hydropsyche turtur Pictet, C: Type 11049.
- Tinodes foedellus** McLachlan, det. Mosely.
- Tinodes maculicornis** (Pictet), *Hydropsyche*.
- Tinodes maclachlani** Kimmins.
Tinodes pusillus McLachlan not Curtis.
- Tinodes mitis** Hagen *Hydropsyche*, 4: Type 11024; L (Ross 1952).
Polycentropus rufus Hagen, 3: Type 11035; L (Ross 1952).
- Tinodes pallidulus** McLachlan.
- Tinodes provo** Ross & Merkle, P etoh.
- Tinodes rostocki** McLachlan, C: Type 11042.
- Tinodes sanctus** Martynov.
- Tinodes tagalicus** Banks, M.C.Z.Type 22067 [L, cf. text], 6P.
- Tinodes unicolor** (Pictet), *Hydropsyche*, C: Type 11043.
Hydropsyche urbana Pictet, C: Type 11044.
- Tinodes valvatus** Martynov.
- Tinodes verethraghna** Schmid, M.C.Z.Paratype 29853.
- Tinodes waeneri** (Linnaeus), *Phryganea*.
Philopotamus longipennis Rambur, C: Type 11041.
Hydropsyche microcephala Pictet, C: Type 11040.
- XIPHOCENTRONIDAE ROSS**
- Xiphocentron cubana** (Banks), *Antillotrichia*, M.C.Z.Type 25295.
- Xiphocentron haitiensis** (Banks), *Antillotrichia*, M.C.Z.Type 25296.
- ECNOMIDAE ULMER**
- Ecnomus ceylanicus** Mosely, det. Schmid.
- Ecnomus continentalis** Ulmer.
- Ecnomus lohprasada** Schmid, M.C.Z.Paratype 29659.
- Ecnomus natalensis** Ulmer, P: Type 16451, det. Mosely.
- Ecnomus rizali** Banks, M.C.Z.Type 22073, P.
- Ecnomus tagalensis** (Banks), *Nyctiophylax*, Type 11774.
- Ecnomus tenellus** (Rambur), *Philopotamus*, ples, det. Schmid.
- Ecnomus vahasaba** Schmid, 2: M.C.Z.Paratype 29658.
- HYDROPSYCHIDAE CURTIS**
- HYDROPSYCHINAE CURTIS**
- Abacaria fijiana** (Mosely), *Hydropsychodes*.
- Abacaria picea** (Brauer), *Hydromanicus*.
- Abacaria ruficeps** (Brauer), *Hydromanicus*.
- Abaria margaritifera** Schmid, M.C.Z.Paratype 29660.
- Asmicridea edwardsii** (McLachlan), *Hydropsyche*.
- Austropsyche victoriana** Banks, 3P; [M.C.Z.Type 22086 in ANIC (Neboiss 1983)].
- Calosopsyche ardisia** Flint & Bueno, M.C.Z.Holotype 33508, 3P.
- Calosopsyche batesi** (Flint), *Hydropsyche*, M.C.Z.Holotype 33505.
- Calosopsyche carinifera** (Flint), *Hydropsyche*, M.C.Z.Holotype 30409.
- Calosopsyche darlingtoni** (Flint), *Hydropsyche*, M.C.Z.Type 30407.
- Cheumatopsyche afra** (Mosely), *Hydropsychodes*.
Hydropsychodes falcifera Ulmer, 2P: Type 16444, det. Mosely.
- Cheumatopsyche albocinctus** (Banks), *Hydropsychodes*, M.C.Z.Type 22064, 6P.
- Cheumatopsyche analis** (Banks), *Hydropsyche*, 3: Type 11532; L (Ross 1938), [2 syntypes of *analis* are *gracilis*, det. Gordon].
- Cheumatopsyche aphantia** Ross, M.C.Z.Paratype 23568 etoh.
- Cheumatopsyche arizonensis** (Ling), det. Gordon & Nimmo.
- Cheumatopsyche burksi** Ross.
- Cheumatopsyche campyla** Ross, M.C.Z.Paratype 23569 etoh.
- Cheumatopsyche costalis** (Banks), *Hydropsychodes*, Type 11779.
- Cheumatopsyche czekanovskii** (Martynov), *Synaptopsyche*, C: Type 11294.
- Cheumatopsyche diminuta** (Walker), *Hydropsyche*, det. Ulmer.
- Cheumatopsyche excisa** (Ulmer), *Hydropsychodes*.
- Cheumatopsyche gracilis** (Banks), *Hydropsyche*, 3: Type 11497; L (Ross 1938) [cf. *analsi*].
- Cheumatopsyche harwoodi** enigma, Ross, Morse & Gordon, det. Gordon.
- Cheumatopsyche lasia** Ross, M.C.Z.Paratype 23570 etoh, det. Gordon.
- Cheumatopsyche lepida** (Pictet), *Hydropsyche*, 2: ples.
Hydropsyche angustata Pictet, C: Type 11010.
Hydropsyche varia Rambur, 4C: Type 11011 [4 type spec. pointed, with 2 spec./pin].
- Cheumatopsyche masia** (Navás), *Hydropsychodes*, C: Type 15917, det. Navás.
- Cheumatopsyche minuscula** (Banks), *Hydropsyche*, 4: Type 11530; L, La (Ross 1938), [2 syntypes of *minuscula* are *sordida*, det. Gordon, cf. *sordida*; C at ANSPI].
- Cheumatopsyche modica** (McLachlan), *Hydropsyche*.

- Cheumatopsyche normalis* (Banks), *Hydropsychodes*, M.C.Z.Type 22063, 13P.
- Cheumatopsyche oppositus* (Banks), *Hydropsychodes*, 2: Type 16489.
- Cheumatopsyche oxa* Ross, det. Gordon.
- Cheumatopsyche pallidus* (Banks), *Hydropsychodes*, 3: Type 10897.
- Cheumatopsyche pasella* Ross, det. Gordon.
- Cheumatopsyche pettiti* (Banks), *Hydropsyche*, Type 11531, etoh.
- Cheumatopsyche plutonis* (Banks), *Symphitopsyche*, Type 11749.
- Cheumatopsyche pulchripennis* (Banks), M.C.Z.Type 22062, P.
- Cheumatopsyche sordida* (Hagen), *Hydropsyche*, 6: Type 11015; L (Ross 1938), [3 syntypes of *C. sordida* are *C. minuscula* det. Gordon, cf. *C. minuscula*].
- Cheumatopsyche speciosa* (Banks), *Hydropsyche*, 4: Type 11502; L, La (Ross 1938).
Hydropsyche phalerata Hagen, Type 11014, lectotype label by Banks (1936) not present.
- Cheumatopsyche thomasseti* (Ulmer), *Hydropsyche*, P: Type 16456, det. Mosely.
- Cheumatopsyche triangularis* (Ulmer), *Hydropsyche*, 4P: Type 16457, det. Mosely.
- Cheumatopsyche urema* Mosely, 3: M.C.Z.Paratype 22451, det. Mosely.
- Chematopsyche "nr. virginica"* Denning.
- Ecnopsyche reticulata* Banks, Type 11778.
- Hydatopsyche decepta* Banks, M.C.Z.Type 23431, P.
- Hydatopsyche melli* Ulmer.
- Hydromanicus flavoguttatus* Albarda.
- Hydromanicus formosus* Banks, Type 16504.
- Hydromanicus frater* Ulmer.
- Hydromanicus hermosus* Banks, P: M.C.Z.Type 20185.
- Hydromanicus intermedius* Martynov.
- Hydromanicus malayanus* Banks, Type 16482.
- Hydropsyche aerata* Ross, M.C.Z.Paratype 23573 etoh.
- Hydropsyche alternans* (Walker), *Philopotamus*.
Hydropsyche recurvata Banks, 5: Type 11507; L (Ross 1938).
- Hydropsyche angustipennis* (Curtis), *Philopotamus*, 2: ples.
Hydropsyche aspersa Rambur, 3C: Type 11004.
Hydropsyche nebulosa Pictet, C: Type 11001.
Hydropsyche tincta Pictet, C: Type 11002.
Hydropsyche walseriana Walker, Type 11003.
- Hydropsyche asiatica* Ulmer.
- Hydropsyche bidens* Ross, M.C.Z.Paratype 23574 etoh.
- Hydropsyche bronta* Ross, M.C.Z.Paratype 23575 etoh, det. Nimmo.
- Hydropsyche bryanti* Banks, M.C.Z.Type 22065, 2P.
- Hydropsyche bulbifera* McLachlan, C: Type 11000.
- Hydropsyche bwambana* Mosely, M.C.Z.Paratype 23595.
- Hydropsyche californica* Banks, 3: Type 11504; L (Ross 1938), etoh.
- Hydropsyche calosa* Banks, M.C.Z.Type 22673, 6P; L (Flint 1967).
- Hydropsyche carolina* Banks, M.C.Z.Type 22657, 2P.
- Hydropsyche cheilonis* Ross, M.C.Z.Paratype 23576 etoh.
- Hydropsyche cockerelli* Banks, 4: Type 11506; L, La (Ross 1938), etoh [cf. *oslari*].
- Hydropsyche columnata* Martynov, det. Unzicker.
- Hydropsyche complicata* Banks, M.C.Z.Type 23430, 10P.
- Hydropsyche confusa* (Walker), *Philopotamus*.
Hydropsyche separata Banks, M.C.Z.Type 22656, 17P.
- Hydropsyche cornuta* Ross, M.C.Z.Paratype 23577 etoh.
- Hydropsyche cuanis* Ross, M.C.Z.Paratype 23578 etoh.
- Hydropsyche delrio* Ross.
- Hydropsyche depravata* Hagen, Type 11017, "Neoallotype" [labeled by Milne] (Banks 1936); 2ndA (Ross 1938).
- Hydropsyche dicantha* Ross, det. Ross.
- Hydropsyche dolosa* Banks, M.C.Z.Type 23429 [det. Unzicker as *formosana*].
- Hydropsyche exocellata* Dufour.
- Hydropsyche faurai* Navás, det. Navás.
- Hydropsyche flavata* Banks, M.C.Z.Paratype 20187.
- Hydropsyche forcipata* Ulmer.
- Hydropsyche formosana* Ulmer, C: Type 11840, det. Unzicker. [cf. *dolosa*].
- Hydropsyche frisoni* Ross.
- Hydropsyche fryeri* Ulmer.
- Hydropsyche fulvipes* (Curtis), *Philopotamus*.
- Hydropsyche gifuana* Ulmer, C: Type 11844.
- Hydropsyche grahami* Banks, M.C.Z.Paratype 23444.
- Hydropsyche guttata* Pictet, C: Type 11006, 2: ples, det. Kolenati.
Hydropsyche danubii Brauer, 3C: Type 11007.
- Hydropsyche hageni* Banks, Type 11496; L (Ross 1938).
- Hydropsyche hedinii* Forsslund.
- Hydropsyche incommoda* Hagen, Type 2: 11018; L (Ross 1938).
- Hydropsyche injusta* Banks, 3: M.C.Z.Paratype 22702.
- Hydropsyche instabilis* (Curtis), *Philopotamus*, 2: ples.
Hydropsyche cinerea Pictet, C: Type 11008.
- Hydropsyche isolata* Banks.
- Hydropsyche javanica* Ulmer.
- Hydropsyche longipalpis* Banks, Type 10894.
- Hydropsyche maderensis* Hagen, 3: M.C.Z.Type 22182; L (Malicky 1977).
- Hydropsyche morosa* Hagen, 11: Type 11013; L (Banks 1936), det. Nimmo.
Hydropsyche bifida Banks, 2: Type 11503; L, La (Ross 1938), det. Nimmo.
Hydropsyche chlorotica Hagen, 4: Type 11016; L (Ross 1938).
- Hydropsyche namwa* Mosely, M.C.Z.Paratype 23596, det. Mosely.
- Hydropsyche nasuta* Ulmer.
- Hydropsyche nevae* Kolenati, det. Kolenati.
- Hydropsyche occidentalis* Banks, 11: Type 11500; L (Ross 1938), etoh.
Hydropsyche novamexicana Banks, Type 11505; L (Ross 1938), etoh.
- Hydropsyche ophthalmica* Rambur, 4C: Type 11009.
- Hydropsyche opposita* Banks.
- Hydropsyche orbiculata* Ulmer.
- Hydropsyche ornatula* McLachlan 1878, 9C: Type 11005; ples.
- Hydropsyche orris* Ross, etoh.
- Hydropsyche oslari* Banks, 5: Type 11501; L, La (Ross 1938) [La Ross of *cockerelli* is *oslari*, det. Scheffer], etoh.
Hydropsyche partita Banks, 5: Type 11498; L (Ross 1938); [C at ANSP].
- Hydropsyche pallipenne* Banks, M.C.Z.Paratype 22703.
- Hydropsyche pellucidula* (Curtis), *Philopotamus*, ples.
Hydropsyche laeta Pictet, C: Type 10995.
Hydropsyche maxima Brauer, C: Type 10998.
Hydropsyche tenuicornis Pictet, C: Type 10996.
Hydropsyche variabilis Pictet, C: Type 10997 [abdomen lost].
Hydropsyche versicolor Brauer, C: Type 10999.
- Hydropsyche penicillata* Martynov.
- Hydropsyche phalerata* Hagen, 9: Type 11014; 2ndA (Ross 1938); L (Banks 1936).
- Hydropsyche plana* Forsslund.
- Hydropsyche reciproca* (Walker), *Philopotamus*.
- Hydropsyche rhomboana* Martynov.
- Hydropsyche rizali* Banks, M.C.Z.Type 22066, 2P.
- Hydropsyche saxonica* McLachlan.
- Hydropsyche scalaris* Hagen, 5: Type 11012; L (Banks 1936).
- Hydropsyche selysi* Ulmer, C: Type 11845.
- Hydropsyche simulans* Ross, M.C.Z.Paratype 23579 etoh.
- Hydropsyche slossonae* Banks, 2: Type 11495; L, La (Ross 1938).
- Hydropsyche sparna* Ross, M.C.Z.Paratype 23580 etoh, det. Nimmo.
- Hydropsyche stimulans* McLachlan, det. Mosely.
- Hydropsyche venularis* Banks, 5: Type 11508; L (Ross 1938).
- Hydropsyche walkeri* Betten & Mosely.
- Hydropsyche waltoni* Martynov, C: Type 16452.
- Hydropsyche wamba* Mosely, M.C.Z.Paratype 23597.
- Plectropsyche hoogstraali* Ross, P etoh.
- Plectropsyche domingensis* (Banks), *Hydropsyche*, M.C.Z.Type 25291, 3P; L (Flint 1967).
- Potamyia chinensis* Martynov.
- Potamyia flava* (Hagen), *Macronema*, Type 11026; L (Ross 1938).
Hydropsyche kansensis Banks, 3: Type 11499; L (Ross 1938).
- Smicridea aequalis* Banks, Type 10911.
- Smicridea albosignata* Ulmer, Type 10909.
Smicridea maculata Banks, Type 10910.
- Smicridea annulicornis* (Blanchard), *Hydropsyche*, det. Kolenati.
Rhyacophylax chilensis Navás.
- Smicridea argentina* (Navás), *Badallus*.
- Smicridea appendiculata* Flint.
- Smicridea banksi* Flint, n.nov. for *S. unicolor* Banks, M.C.Z.Type 22110, P; L (Flint 1967).
- Smicridea brasiliiana* (Ulmer), *Rhyacophylax*, C: 11794.
- Smicridea bivittata* (Hagen), *Hydropsyche*, Type 11019; L (Ross 1952).
- Smicridea comma* Banks, 5: Type 14874; L (Flint 1967).
- Smicridea completa* Banks, M.C.Z.Type 25292, P; L (Flint 1967).
- Smicridea columbiana* (Ulmer), *Rhyacophylax*, C: 11795.
- Smicridea dispar* (Banks), *Polycentropus*, Type 11545.
Smicridea utico Ross, P etoh.
- Smicridea dithyra* Flint.
- Smicridea fasciatella* McLachlan, Type 11020; etoh.
Hydropsyche divisa Banks, 4: Type 11528; L, La (Ross 1938).
- Smicridea "nr. iguazu"* Flint.
- Smicridea jamaicensis* Flint, P.
- Smicridea marlieri* Flint.
- Smicridea matagalpa* Flint.
- Smicridea minima* Flint, P.
- Smicridea murina* McLachlan.
Rhyacophylax magna Ulmer, C: Type 11800.
Smicridea zanclophora Flint.
- Smicridea nigripennis* Banks, 6: Type 10912; L (Flint 1967).
- Smicridea obesa* Banks, M.C.Z.Type 22672, P; L (Flint 1967).
- Smicridea piraya* Flint.

- Smicridea saucia* McLachlan.
Smicridea scutellaris Flint.
Smicridea signata (Banks), *Pellopsyche*, Type 11513.
Smicridea truncata Flint.
Smicridea unicolor (Banks), *Diplectrona*, 5: Type 11815; L (Flint 1967).
Smicridea varia (Banks), *Rhyacophylax*, Type 11814.
Smicridea veracruzensis Flint.
Smicridea vilela Flint.
Smicridea voluta Flint.
Smicrophylax australis (Ulmer), *Smicridea*.
Smicridea parva Banks, 13P; [M.C.Z.Type 22091 & 5P in ANIC (Neboiss 1983)].
Smicrophylax ulmeri (Banks), *Smicridea*, 2P; [M.C.Z.Type 22092 & P in ANIC (Neboiss 1983)].
Sterptopsyche antilles (Ross & Palmer), *Hydropsyche*.
Synoestropsis furcata Flint.
Synoestropsis grisoli Navás.
Synoestropsis obliqua Ulmer.
Synoestropsis pedicillata Ulmer, C: Type 11792.
Synoestropsis punctipennis Ulmer.
Synoestropsis vitrea Navás.
DIPLECTRONINAE ULMER
Diplectrona albofasciata (Ulmer), *Hydromanicus*, C: Type 11841 [probable cotype present, but without MCZ type label].
Diplectrona atra McLachlan, det. Mosely.
Diplectrona angusta Banks, [M.C.Z.Type 22087 in ANIC (Neboiss 1983)].
Diplectrona bidens Ulmer.
Diplectrona californica Banks, Type 11521.
Diplectrona cinctipennis (Banks), *Hydromanicus*, Type 11777.
Diplectrona elongata (Banks), *Sciops*, 2: Type 16507.
Diplectrona exquisita Banks, M.C.Z.Type 22060, P.
Diplectrona extrema (Banks), *Hydromanicus*, 3: Type 10888.
Diplectrona fasciata (Ulmer), *Hydromanicus*.
Diplectrona fasciata stigmatica Banks, M.C.Z.Type 22061, 7P.
Diplectrona felix McLachlan.
Diplectrona inermis (Banks), *Sciops*, P; [M.C.Z.Type 22089 & P in ANIC (Neboiss 1983)].
Diplectrona japonica (Banks), *Arctopsyche*, M.C.Z.Type 11833, P.
Diplectrona magna Mosely, P: Type 16455.
Diplectrona maligna (Hagen), *Hydropsyche*, 2: Type 11023; L (Ross 1952).
Diplectrona melli Ulmer.
Diplectrona meridionalis (Hagen), *Aphelocheira*, 3: Type 11056; L (Ross 1952).
Diplectrona modesta Banks, 2: Type 11523; L, La (Ross 1938).
Diplectrona papilionacea (Hagen), *Hydropsyche*, 3: Type 11022; L (Ross 1952).
Diplectrona scabrosa Banks, M.C.Z.Type 22059.
Diplectrona spinata (Banks), *Sciops*, [M.C.Z.Type 22088 in ANIC (Neboiss 1983)].
Diplectrona suensoni Ulmer.
Diplectrona tricolor Banks, M.C.Z.Type 22058.
Diplectrona trifasciata (Banks), *Hydromanicus*, Type 14823.
Diplectronella taprobanes (Hagen), *Hydropsyche*, 7: Type 11021; L (Ross 1952).
Homoplectra doringa (Milne), *Diplectrona*, H: M.C.Z.Type 27072.
Homoplectra nigripennis (Banks), *Diplectrona*, Type 11522; 2ndA (Ross 1938) [cf. *spora*].
Homoplectra spora Denning, [2ndA of *nigripennis* is *spora*], det. Flint.
Sciops oculata Banks, Type 16505.
MACRONEMATINAE ULMER
Aethaloptera dispar Brauer, det. Mosely.
Aethaloptera evanescens (McLachlan), *Chloropsyche*.
Aethaloptera rossica Martynov, C: Type 11293.
Aethaloptera sexpunctata (Kolenati), *Seiodes*, det. Barnard.
Aethaloptera dyakana Banks, Type 10885.
Paraethaloptera punctata Banks, 3: M.C.Z.Paratype 22700.
Amphipsyche apicalis Banks, M.C.Z.Type 22677, P; L (Barnard 1984), det. Barnard.
Amphipsyche delicata Banks, M.C.Z.Type 23470, 6P; L (Barnard 1984), det. Barnard.
Amphipsyche distincta Martynov.
Amphipsyche evanescens Barnard, det. Barnard.
Amphipsyche magna Banks, M.C.Z.Type 23471.
Amphipsyche meridiana Ulmer, det. Barnard.
Amphipsyche nirvana Banks, Type 11755.
Amphipsyche vedana Banks, Type 11754.
Amphipsyche parva Banks, Type 10886.
Amphipsyche petiolata Ulmer, det. Barnard.
Amphipsyche minima Banks, Type 16479; etoh.
Amphipsyche prolata McLachlan, det. Barnard.
Amphipsyche senegalensis (Brauer), *Phanostoma*.
Baliomorpha banksi (Mosely), *Macronema*, n.n for *tristis* Banks, 14P, [M.C.Z.Type 22085 & P in ANIC (Neboiss 1983)].
Baliomorpha pulchripenne (Tillyard), *Macronema*, P: Type 14434.
Blepharopus diaphanus Kolenati.
Centromacronema apicale (Walker), *Macronema*.
Centromacronema auripenne (Rambur), *Macronema*.
Leptonema ferrugineum Navás.
Centromacronema extensum Banks, Type 11798.
Leptocerus niveistigma Walker.
Macronema obscurum Ulmer.
Leptocerus quadrifurca Walker.
Centromacronema auripenne var. *cupreum* (Walker), *Macronema*.
Centromacronema nigrifrons Banks, Type 11799.
Centromacronema oculatum (Walker), *Macronema*.
Leptonema affine Ulmer.
Leptonema albovirens (Walker), *Macronema*, det. Mosely.
Leptonema album Mosely, P: Type 17067.
Leptonema aspersum Ulmer.
Leptonema banksi Mosely, P: Type 17062.
Leptonema cinctum Ulmer.
Leptonema columbianum Ulmer.
Leptonema externum Banks, Type 11808.
Leptonema complexum Mosely, [cf. *forficula*].
Leptonema crassum Ulmer.
Leptonema eugnathum (Müller), *Macronema*.
Leptonema forficula Mosely, P: Type 17069, [P is *complexum*, det. Flint].
Leptonema furcatum Ulmer.
Leptonema guatemalum Banks, Type 11822.
Leptonema hamuli Flint, McAlpine & Ross.
Leptonema insulanum Banks, Type 14870.
Leptonema ulmeri Mosely.
Leptonema intermedium Mosely, P: Type 17068.
Leptonema lojaense Flint, McAlpine & Ross.
Leptonema maculatum Mosely.
Leptonema normale Banks, 2: Type 10891, det. McAlpine.
Leptonema poeyi (Banks), *Macronema*, M.C.Z.Type 22675, 13P; L (Flint 1967).
Leptonema pseudostigmatosum Flint, M.C.Z.Holotype 33506.
Leptonema salvini Mosely, P: Type 17065.
Leptonema simulans Mosely, P: Type 17066.
Leptonema sinuatum Mosely.
Leptonema sparsum (Ulmer), *Macronema*.
Leptonema spinulum Flint, McAlpine & Ross.
Leptonema stigmatosum Ulmer.
Leptonema tholloni Navás.
Leptonema tridens Mosely.
Leptonema uncatum Mosely, Type 17063.
Leptonema viridianum Navás.
Leptonema dissimile Mosely, P: Type 17064.
Macronema burmeisteri Banks, Type 14836.
Macronema fragile Banks, Type 11801.
Macronema fraternum Banks, Type 11803.
Macronema gundlachi Banks, 5: Type 14875.
Macronema hageni Banks, 8: Type 14834.
Macronema lachlani Banks, Type 14835.
Macronema lutipenne Flint & Bueno, 13P.
Macronema muelleri Banks, 3: Type 14837.
Macronema percitans Walker.
Macronema pertyi Banks, Type 14833.
Macronema picteli Banks, Type 11802.
Macrostemum albardanum (Banks), *Macronema*, Type 16477.
Macrostemum bellum (Banks), *Macronema*, Type 11772.
Macrostemum braueri (Banks), *Macronema*, Type 14838.
Macrostemum caliptera (Banks), *Macronema*, Type 16420.
Macrostemum capense (Walker), *Macronema*.
Macrostemum capense inscriptum (Walker), *Macronema*.
Macrostemum carolina (Banks), *Macronema*, 2: Type 11529; L (Ross 1938).
Macrostemum diagramma (McLachlan), *Macronema*.
Macrostemum distinguendum (Ulmer), *Macronema*, det. Ulmer.
Macrostemum dohrni (Ulmer), *Macronema*.
Macrostemum eleanora (Banks), *Macronema*, M.C.Z.Type 22980.
Macrostemum ethelda (Banks), *Macronema*, M.C.Z.Type 22676, 22P; [4P at ANSP].
Macrostemum fastosum (Walker), *Macronema*.
Macronema quinquepunctatum Banks, Type 10889.
Macronema tripunctatum Banks, 2: Type 14822.
Macrostemum fenestratum (Albarda), *Macronema*.
Macrostemum hyalinum (Pictet), *Hydropsyche*.
Macrostemum erichsoni (Banks), *Macronema*, Type 10902.
Macrostemum hospitum (McLachlan), *Macronema*.
Macrostemum indistinctum (Banks), *Macronema*, Type 11765.
Macrostemum lautum (McLachlan), *Macronema*.
Macrostemum nebulosum (Hagen), *Macronema*, 5: Type 11030; L (Ross 1952).
Macrostemum obliquum (Hagen), *Macronema*, 2: Type 11033; L (Ross 1952).
Macrostemum obscurum (Banks), *Macronema*, Type 10892.

- Macrostemum opulentum* (Ulmer), *Macronema*.
Macrostemum pallipes (Banks), *Macronema*, 2: Type 16502.
Macrostemum par (Navás), *Macronema*.
Macrostemum partitum (Ulmer), *Macronema*.
Macrostemum pseudoneura (Brauer), *Macronema*.
Macrostemum radiatum (McLachlan), *Macronema*.
Macrostemum santaeritae (Ulmer), *Macronema*.
Macrostemum scriptum (Rambur), *Macronema*.
Macrostemum sepultum (Hagen), *Macronema*, 3: Type 11032; L (Ross 1952).
Macrostemum similior (Banks), *Macronema*, 2: Type 16478.
Macrostemum spectabilis (Banks), *Macronema*, Type 16476.
Macrostemum splendens (Banks), *Macronema*, 3: Type 16503.
Macrostemum splendidum (Hagen), *Macronema*, 3: Type 11029; L (Ross 1952).
Macrostemum transversum (Walker), *Hydropsyche*.
Macrostemum trifasciatum (Banks), *Macronema*, M.C.Z. Type 20184, P.
Macrostemum trigramma (Navás), *Macronema*.
Macronema pullatum Navás.
Macrostemum tuberosum (Ulmer), *Macronema*.
Macrostemum ulmeri (Banks), *Macronema*, Type 11804.
Macrostemum zebratum (Hagen), *Macronema*, 8: Type 11027; L, La (Ross 1938).
Oestropsyche hageni Banks, M.C.Z. Type 23469.
Oestropsyche palingenia Brauer.
Oestropsyche vitrina (Hagen), *Macronema*, Type 11025; L (Ross 1952), det. Schmid.
Plectromacronema comptum Ulmer.
Plectromacronema subfuscum (Banks), *Podomacronema*, Type 10904.
Polymorphanisus angustipennis Ulmer, det. Barnard.
Polymorphanisus astictus Navás, det. Barnard.
Polymorphanisus flavipes Banks, M.C.Z. Type 23467, 15P.
Polymorphanisus bipunctatus (Brauer), *Oestropis*.
Polymorphanisus fuscus (Ulmer), *Oestropis*.
Polymorphanisus guttatus Navás.
Polymorphanisus hainanensis Martynov.
Polymorphanisus ocularis Ulmer.
Polymorphanisus indicus Banks, Type 11787.
Polymorphanisus scutellatus Banks, M.C.Z. Type 23472, 2P.
Polymorphanisus semperi (Brauer), *Oestropis*.
Polymorphanisus tumidus Banks, M.C.Z. Type 23468, 2P.
Polymorphanisus umbripes Barnard, H: M.C.Z. Type 32396; 30P.
Polymorphanisus unipunctus Banks, 2: M.C.Z. Paratype 23445.
Protomacronema hyalinum Ulmer, 3C: Type 11751.
Protomacronema pubescens Ulmer, det. Mosely.
Pseudoleptonema ceylanicum (Hagen), *Macronema*, 5: Type 11031, L (Ross 1952).
Pseudomacronema arcuatum (Erichson), *Macronema*, Type 11028.
Pseudomacronema subaequalis (Banks), *Macronema*, Type 10903.
Pseudomacronema vittatum Ulmer.
ARCTOPSYCHINAE MARTYNOV
Arctopsyche difformis Banks, 4: M.C.Z. Paratype 26679.
Arctopsyche grandis (Banks), *Hydropsyche*, 2: Type 11514; L (Ross 1938).
Arctopsyche inermis Banks, M.C.Z. Type 25843, 2P; etoh.
Arctopsyche phyganoides Banks, Type 10074.
Arctopsyche ladogensis (Kolenati), *Aphelocheira*, det. Kolenati, ples.
Arctopsyche ramosa McLachlan, Type 25840.
Arctopsyche lobata Martynov.
Parapsyche almota Ross.
Parapsyche apicalis (Banks), *Arctopsyche*, 2: Type 11515.
Parapsyche divergens (Banks), *Arctopsyche*, M.C.Z. Type 25844.
Parapsyche elsis Milne, M.C.Z. Paratype.
- INTEGRIPALPIA MARTYNOV**
PHRYGANEIDAE LEACH
Agrypnia crassicornis McLachlan.
Agrypnia colorata Hagen, Type 10734; L (Ross 1938).
Prophryganea bradorata Milne, P: Type 16530.
Agrypnia glacialis Hagen, 3: Type 10737, [purple lectotype labels by Milne are invalid].
Agrypnia improba (Hagen), *Phryganea*, 3: Type 10738; L (Milne 1931) [abdomen absent].
Agrypnia improba var. *sackeni* (Banks), *Dasystegia*, M.C.Z. Type 25838, 4P.
Agrypnia macdunnoughi (Milne), *Prophryganea*.
Agrypnia obsoleta (Hagen), *Phryganea*.
Agrypnia obsoleta deflata (Milne), *Prophryganea*, P: Type 16531.
Agrypnia pagetana Curtis.
Agrypnia pagetana nearctica Milne, M.C.Z. Type 19514.
Agrypnia picta Kolenati.
Agrypnia islandica Hagen, Type 10736.
Agrypnia principalis (Martynov), *Phryganea*.
- Agrypnia straminea* Hagen, Type 10735; L (Ross 1938).
Agrypnia curvata Banks, Type 11604.
Phryganomyia obscura Banks, Type 11605.
Agrypnia varia (Fabricius), *Phryganea*.
Agrypnia vestita (Walker), *Neuronina*, topo.
Banksiola calva Banks, M.C.Z. Type 25756.
Banksiola concatenata (Walker), *Neuronina*, M.C.Z. Paratype 25700.
Banksiola cornuta Banks, M.C.Z. Type 28557, det. Flint.
Banksiola crotchi Banks, M.C.Z. Type 25956, P.
Banksiola dossuaria (Say), *Phryganea*, "Neoholotype" & "Neoallotype" [purple labels by Milne], 12: "Neoparatype" [yellow labels by Milne] (Wiggins 1956).
Banksiola selina Betten, M.C.Z. Paratype 26845.
Banksiola smithi (Banks), *Neuronina*, Type 11601, det. Wiggins.
Beothukus complicatus (Banks), *Ecclisomyia*, Type 14845.
Eubasilissa maclachlani (White), *Holostomis*.
Eubasilissa regina (McLachlan), *Holostomis*.
Eubasilissa tibetana Martynov, P: Type 16442.
Fabria inornata (Banks), *Neuronina*, Type 11603.
Hagenella canadensis (Banks), *Neuronina*, Type 11602.
Hagenella clathrata (Kolenati), *Anabolia*.
Oligostomis ocelligera (Walker), *Neuronina*.
Neuronina stygipes Hagen, 5: Type 10741; L (Ross 1938).
Oligostomis pardalis (Walker), *Neuronina*.
Oligostomis reticulata (Linnaeus), *Phryganea*.
Oligotricha lapponica (Hagen), *Neuronina*, 8: Type 10742 [L, cf. text], det. Wiggins.
Oligotricha striata (Linnaeus), *Phryganea*, det. Kolenati.
Phryganea cinerea Walker.
Phryganea grandis Linnaeus.
Phryganea japonica McLachlan.
Phryganea sinensis (McLachlan), *Colpomera*, det. Mosely.
Phryganea sayi Milne, n. nov. for *P. interrupta* Say, "Neoholotype", "Neoallotype", 12: "Neoparatype".
Phryganea sordida McLachlan.
Ptilostomis angustipennis (Hagen), *Neuronina*, 3: Type 10739; L (Ross 1938).
Ptilostomis ocellifera (Walker), *Neuronina*.
Ptilostomis postica (Walker), *Neuronina*.
Ptilostomis semifasciata (Say), *Phryganea*, det. Flint.
Neuronina fusca Walker, C: Type 10740.
Semblis atrata (Gmelin), *Phryganea*, det. Wiggins.
Semblis melaleuca (McLachlan), *Holostomis*.
Semblis phalaenoides (Linnaeus), *Phryganea*.
Trichostegia minor (Curtis), *Phryganea*.
Phryganea tortriceana Rambur, Cotype M.C.Z. 22155.
Yphria californica (Banks), *Phryganea*, Type 11606.
- PLECTROTARSIDAE MOSELY AND KIMMINS**
Plectrotarsus gravenhorsti Kolenati.
Plectrotarsus tasmanicus Mosely.
- PHRYGANOSPYCHIDAE WIGGINS**
Phryganopsyche latipennis (Banks), *Phryganea*, Type 11838.
- LIMNOCENTROPODIDAE TSUDA**
Limnocentropus grandis Banks, P: M.C.Z. Type 20182.
- MOLANNIDAE WALLENGREN**
Molanna albicans (Zetterstedt), *Phryganea*.
Molanna angustata Curtis.
Nais plicata Rambur, 2: Cotype M.C.Z. 22181.
Molanna blenda Sibley.
Molanna cinerea Hagen, Type 10957; L (Ross 1938).
Molanna flavicornis Banks, 2: Type 11590; L, La (Ross 1938).
Molanna moesta Banks, Type 11839.
Molanna nigra (Zetterstedt), *Phryganea*.
Molanna uniophila Vorhies.
Molannodes tinctus (Zetterstedt), *Phryganea*, det. Molsely.
- CALAMOCERATIDAE ULMER**
Anisocentropus annulicornis (Hagen), *Macronema*, Type 10990; L (Ross 1952).
Anisocentropus bellus Banks, Type 16419.
Anisocentropus dilucidus McLachlan, det. Mosely.
Anisocentropus fijianus Banks, M.C.Z. Type 22041, P.
Anisocentropus illustris McLachlan, C: Type 10989.
Anisocentropus immunis McLachlan, det. Ulmer coll. Selys.
Anisocentropus latifascia (Walker), *Notodobia*.
Anisocentropus maculatus Ulmer.
Anisocentropus nitidus Banks, M.C.Z. Type 22052, 28P; [4P at ANSP].
Anisocentropus solomonis Banks, M.C.Z. Type 22051, P.
Anisocentropus semiflavus Banks, [M.C.Z. Type 22083 in ANIC (Neboiss 1983)].
Anisocentropus usambarensis Ulmer, det. Mosely.
Ascalaphomerus humeralis Walker.

- Calamoceras volkemi* McLachlan, det. Mosely.
Ganonema brevipenne Ulmer.
Ganonema falcatus (Banks), *Asotocerus*, Type 11764.
Ganonema furcatus (Banks), *Asotocerus*, 2: Type 14820.
Ganonema fuscipenne Albarda.
Ganonema magnum Banks, 2: Type 16475.
Ganonema pallicornae McLachlan.
Ganonema umbrosum (Banks), *Asotocerus*, Type 11770.
Heteroplectron americanum (Walker), *Sericostoma*.
Heteroplectron californicum McLachlan, 3C: Type 10993.
Phylloicus abdominalis (Ulmer), *Heteroplectron*.
Phylloicus aeneus (Hagen), *Macronema*, Type 10992; L (Flint 1967).
Heteroplectron mexicanum Banks, Type 11818.
Heteroplectron nigripennis Banks, Type 11819.
Phylloicus angustior Ulmer.
Phylloicus brevior Banks, Type 11786.
Phylloicus bromeliarum Müller, 2C: Type 11111.
Phylloicus chalybeus (Hagen), *Macronema*, 3: Type 10991; L (Ross 1952).
Phylloicus cubanus Banks, Type 14869.
Phylloicus iridescens Banks, M.C.Z. Type 25297, 5P; L (Flint 1967).
Phylloicus lituratus Banks, Type 10901.
Phylloicus maculatum (Banks), *Heteroplectron*, Type 11820.
Phylloicus magnus Banks, Type 11790.
Phylloicus major Müller, Type 11110, 7P.
Homoeoplectron assimile Ulmer.
Phylloicus ornatus (Banks), *Notiomyia*, Type 11722.
Phylloicus plaumanni Flint, 3P.
Phylloicus superbus Banks, M.C.Z. Type 22669. L (Flint 1967).
- PHILORHEITHRIDAE MOSELY**
Philorheithrus agilis (Hudson), *Pseudoeconesus*.
- ODONTOCERIDAE WALLENGREN**
Barynema costatum Banks, [M.C.Z. Type 22082 & P in ANIC (Neboiss 1983)].
Leptodermatopteryx tenuis Ulmer, C: Type 11752.
Marilia fasciculata Banks, Type 11791.
Marilia flexuosa Ulmer.
Anisocentropus fuscus Banks, Type 11561.
Marilia gracilis Banks, M.C.Z. Type 22107, P; L (Flint 1967).
Marilia gracilis nigrescens Banks, M.C.Z. Type 25298, 2P; L (Flint 1967).
Marilia lateralis Flint, P.
Marilia major Müller, Type 11108.
Marilia mexicana (Banks), *Leptocerus*, Type 11811.
Marilia minor Müller, 21C: Type 11109.
Marilia "nr. minor" Müller.
Marilia mixta (Hagen) *Molanna*, 4: Type 10984.
Marilia modesta Banks, Type 11782.
Marilia scudderi Banks, Type 14872.
Marilia wrighti Banks, Type 14873.
Namamyia plutonis Banks, Type 11721.
Nerophilus californicus (Hagen), *Silo*, Type 10994; L, 2ndA (Ross 1938).
Nerophilus oregonensis Banks, Type 11720.
Odontocerus albicornis (Scopoli), *Phryganea*.
Perissoneura paradoxa McLachlan.
Perissoneura japonica Banks, Type 11836.
Perissoneura similis Banks, Type 11835.
Pseudogoera singularis Carpenter, M.C.Z. Type 19441, P.
Psilotreta chinensis Banks, 4: M.C.Z. Paratype 23446.
Psilotreta frontalis Banks, Type 11711, det. Parker.
Psilotreta indecisa (Walker), *Goera*, det. Parker.
Heteroplectron borealis Provancher.
Psilotreta japonica (Banks), *Odontocerus*, Type 11837, det. Parker.
Psilotreta labida Ross, det. Parker.
Psilotreta rufa (Hagen), *Molanna*, 2: Type 10956; L, La (Ross 1938), det. Flint.
Astoplectron connexa Banks, Type 11719.
Heteroplectron dissimilis Banks, 3: Type 11718; L (Ross 1938).
Parthina vierra Denning, det. Parker.
- LEPTOCERIDAE LEACH**
Achoropsyche duodecimpunctata (Navás), *Setodes*.
Adicella filicornis (Pictet), *Mystacidae*.
Adicella ino (Hagen), *Setodes*, Type 10985.
Adicella najas (Hagen), *Setodes*, 4: Type 10982.
Adicella reducta (McLachlan), *Setodes*.
Allosetodes assimilis Banks, M.C.Z. Type 22054, 3P.
Allosetodes plutonis Banks, Type 16501, det. Manuel.
Athripsodes aterrimus (Stephens), *Leptocerus*, det. Morse.
Athripsodes cinereus (Curtis), *Leptocerus*, det. Morse.
Mystacida rufina Rambur, C: Type 10961, det. Morse.
Athripsodes dissimilis (Stephens), *Leptocerus*, det. Morse.
Mystacida vetula Rambur, 2C: Type 10962, det. Morse.
- Athripsodes fulvoguttatus* (Mosely), *Leptocerus*, M.C.Z. Paratype 22452.
Athripsodes grumicha (Vallot), *Phryganea*, dry larvae.
Brachysetodes major Schmid.
Ceraclea alagma (Ross), *Athripsodes*, det. Morse [cf. *annulicornis* & *transversa*].
Ceraclea alboguttata (Hagen), *Leptocerus*, Type 10958, det. Morse.
Ceraclea albosticta (Hagen), *Leptocerus*, Type 10963; L (Ross 1938).
Athripsodes saccus Ross, M.C.Z. Paratype 23565 etoh.
Ceraclea ancylus (Vorhies), *Leptocerus*, C: Type 11577, det. Morse.
Ceraclea annulicornis (Stephens), *Leptocerus*, det. Morse.
Leptocerus futilis Banks, Type 11574; L, La (Ross 1938), [♀ La of *futilis* is *Ceraclea alagma*, det. Morse].
Leptocerus lugens Hagen, Type 10966, det. Morse.
Leptocerus recurvatus Banks, Type 11569.
Ceraclea aurea (Pictet), *Mystacidae*, det. Morse.
Ceraclea cancellata (Betten), *Leptocerus*, det. Morse [cf. *transversa*].
Ceraclea cophia (Ross), *Athripsodes*, det. Morse.
Ceraclea diluta (Hagen), *Leptocerus*, 4: Type 10965; L (Ross 1938), det. Morse.
Leptocerus retactus Banks, 4: Type 11568.
Ceraclea erratica (Milne), *Athripsodes*, 4: M.C.Z. Paratype 22385, det. Morse.
Ceraclea erulla (Ross), *Athripsodes*, M.C.Z. Paratype 23564 etoh.
Ceraclea excisa (Morton), *Leptocerus*, det. Morse.
Athripsodes perplexa nordus Milne, Type 19560, det. Morse.
Ceraclea flava (Banks), *Leptocerus*, 5: Type 11572; L, La (Ross 1938).
Ceraclea floridana (Banks), *Leptocerus*, Type 11575, det. Morse.
Ceraclea fulva (Rambur), *Mystacidae*, det. Morse.
Ceraclea latahensis (Smith), *Athripsodes*, det. Morse.
Ceraclea maculata (Banks), *Leptocerus*, 2: Type 11576; L (Ross 1938), det. Morse, [cf. *transversa*].
Leptocerus inornatus Banks, Type 11573.
Ceraclea marginata (Banks), *Leptocerus*, Type 11760, det. Morse.
Ceraclea mentiea (Walker), *Leptocerus*.
Ceraclea modesta (Banks), *Leptocerus*, 9: Type 10890; L (Morse 1975).
Ceraclea nigronervosa (Retzius), *Phryganea*.
Mystacida venosa Rambur, 2C: Type 10960, det. Morse.
Ceraclea perplexa (McLachlan), *Leptocerus*, det. Morse.
Ceraclea punctata (Banks), *Mystacidae*, Type 11584, det. Morse.
Ceraclea ramburi Morse, P: Type 10959 [cotype of *Leptocerus albimacula* (Rambur)].
Ceraclea resurgens (Walker), *Leptocerus*, det. Morse.
Leptocerus variegatus Hagen, Type 10964; L (Ross 1938).
Ceraclea riparia (Albarda), *Leptocerus*, det. Morse & Mosely.
Ceraclea ruthae (Flint), *Athripsodes*, det. Morse.
Ceraclea senilis (Burmeister), *Mystacidae*, det. Morse.
Ceraclea slossonae (Banks), *Athripsodes*, M.C.Z. Type 22655, P, det. Morse.
Ceraclea sobradieli (Navás), *Leptocerus*, det. Morse.
Ceraclea tarsipunctata (Vorhies), *Leptocerus*, C: Type 11571, det. Morse.
Ceraclea transversa (Hagen), *Leptocerus*, Type 10967; L, 2ndA (Ross 1938), [1 syntype of *transversa* is *cancellata*, det. Morse; 2ndA of *transversa* is *maculata*, det. Morse].
Leptocerus angustus Banks, 2: Type 11570; L (Morse 1975) [1 syntype of *angustus* is *alagma*, det. Morse].
Ceraclea uvalo (Ross), *Athripsodes*.
Ceraclea vertreesi (Denning), *Athripsodes*.
Ceraclea wetzeli (Ross), *Athripsodes*.
Erotosis baltica McLachlan.
Grumichella pulchella (Banks), *Leptocella*, Type 11783.
Grumichella rostrata Thienemann.
Homilia leucophaea (Rambur), *Mystacidae*, 2C: Type 10968, [probable cotypes present, but without MCZ type labels].
Hudsonema flaminii (Navás), *Triplectides*.
Leptocerus americanus (Banks), *Setodes*, 6: Type 11567; L, La (Ross 1938), det. Holzenthal.
Setodes floridanus Banks, Type 11563.
Setodes grandis Banks, 3: Type 11564; L, La (Ross 1938).
Leptocerus interruptus (Fabricius), *Phryganea*.
Leptocerus lusitanicus (McLachlan), *Setodes*, det. Mosely.
Leptocerus posticus (Banks), *Setodes*, Type 11761.
Leptocerus tineiformis Curtis.
Setodes aspersella Rambur, 2C: Type 10988.
Leptorussa darlingtoni (Banks), *Leptocerus*, [M.C.Z. Type 22081 & P in ANIC (Neboiss 1983)].
Mystacides alafimbriata Hill-Griffin, etoh.
Mystacides azurea (Linnaeus), *Phryganea*.
Mystacides interjecta (Banks), *Oecetina*, 2: Type 11551; L (Ross 1938).
Mystacides canadensis Banks, 3: Type 14852; L (Ross 1938).
Mystacides leucoptera McLachlan.

- Mystacides longicornis* (Linnaeus), *Phryganea*.
Mystacides monochroa McLachlan, det. Mosely.
Mystacides nigra (Linnaeus), *Phryganea*, 2: ples; etoh.
Mystacides sepulchralis (Walker), *Leptocerus*.
Mystacides testacea Navás.
Nectopsyche albida (Walker), *Leptocerus*.
Setodes nivea Hagen, Type 10969; L (Ross 1938).
Nectopsyche candida (Hagen), *Setodes*, 5: Type 10972; L (Ross 1938).
Nectopsyche coloradensis (Banks), *Leptocella*, 2: Type 11582; L, La (Ross 1938).
Nectopsyche cubana (Banks), *Leptocella*, M.C.Z.Type 22671, 2P; L (Flint 1967).
Nectopsyche diarina (Ross), *Leptocella*, M.C.Z.Paratype 26839.
Nectopsyche diminuta (Banks), *Leptocella*, 7: Type 10900; L (Flint 1967).
Nectopsyche dorsalis (Banks), *Leptocella*, Type 11809.
Nectopsyche exquisita (Walker), *Leptocerus*.
Nectopsyche flavofasciata (Ulmer), *Leptocella*.
Leptocella sparsa Banks, 4: Type 10899; L (Flint 1967).
Nectopsyche gemmoides Flint, P.
Nectopsyche gracilis (Banks 1901), *Leptocella*, Type 11810.
Leptocella exilis Banks, n.nov. for *L. gracilis* Banks 1904, preoccupied by Banks 1901, Type 11579.
Leptocella intervena Banks, Type 11578, [cf. "L. of texana"].
Nectopsyche jenseni (Ulmer), *Leptocella*, C: Type 11796.
Nectopsyche maculata (Banks), *Leptocella*, Type 11758.
Nectopsyche minuta (Banks), *Leptocella*, 4: Type 11581; L, 2ndA (Ross 1938).
Nectopsyche muelleri (Ulmer), *Leptocella*.
Nectopsyche muhni (Navás), *Leptocella*.
Nectopsyche nivea (Navás), *Leptocella*.
Nectopsyche pavidata (Hagen), *Setodes*, Type 10970; L (Ross 1938).
Nectopsyche pretiosella (Banks), *Setodes*, Type 14832.
Nectopsyche punctata (Ulmer), *Leptocella*.
Leptocella fenestrata Banks, Type 11781.
Nectopsyche quatuorguttata (Navás), *Leptocella*.
Nectopsyche separata (Banks), *Leptocella*, 3: Type 10898; L (Flint 1967).
Nectopsyche spiloma (Ross), *Leptocella*, M.C.Z.Paratype 26840.
Nectopsyche splendida (Navás), *Leptocella*.
Nectopsyche stigmatica (Banks), *Leptocella*, 2: Type 11583; L (Ross 1938).
Nectopsyche tavana (Ross), *Leptocella*, M.C.Z.Paratype 26841.
Nectopsyche texana (Banks), *Leptocella*, Type 11580; ["L. of texana" by Ross (1938) is invalid because he mistakenly selected a syntype of *intervenata* (Flint 1966)].
Oecetina hemerobioides (McLachlan), *Setodes*.
Oecetina pulchella Banks, M.C.Z.Type 22044, 2P.
Oecetis amazonica (Banks), *Oecetina*, 5: Type 14830; L (Flint 1967).
Oecetis angusta (Banks), *Oecetina*, 3: Type 10887.
Oecetis australis (Banks), *Oecetina*, [Type 10916 in ANIC (Neboiss 1983)].
Oecetis apicipennis (Banks), *Setodes*, Type 11775.
Oecetis avara (Banks), *Setodes*, Type 11553, det. Manuel.
Oecetis biramosa Martynov, det. Schmid.
Oecetis ceylanica Ulmer, det. Schmid.
Oecetis cinerascens (Hagen), *Setodes*, Type 10971; L (Ross 1938).
Oecetina floridana Banks, 3: Type 11555; L (Ross 1938).
Oecetina fumosa Banks, Type 11556; L (Ross 1938).
Oecetis claggi Banks, M.C.Z.Type 22055, P.
Oecetis daytona Ross, etoh.
Oecetis disjuncta (Banks), *Oecetina*, Type 10915; L (Ross 1938).
Oecetis excisa Ulmer.
Oecetis furva (Rambur), *Mystacida*, det. Morse.
Oecetis iguazu Flint, 2P.
Oecetis immobilis (Hagen), *Setodes*, Type 10977; L (Ross 1938).
Oecetis inconspicua (Walker), *Leptocerus*, det. Manuel, etoh.
Oecetina apicalis Banks, Type 11558.
Oecetina antillana Banks, M.C.Z.Type 22670, 12P; L (Flint 1967).
Setodes flaveolata Hagen, 3: Type 10978; L (Ross 1938).
Oecetina flavida Banks, 5: Type 11557; L, La (Ross 1938).
Oecetina inornata Banks, Type 11559.
Setodes micans Hagen, 6: Type 10973; L, La (Ross 1938).
Oecetina parvula Banks, 10: Type 11554; L (Ross 1938).
Setodes sagitta Hagen, Type 10975; L (Ross 1938).
Oecetis insignis (Banks), *Oecetina*, Type 11559.
Oecetis intima McLachlan, det. Mosely.
Oecetis lacustris (Pictet), *Mystacida*, det. Morse.
Oecetis lais (Hagen), *Setodes*, Type 10981.
Oecetis lanuginosa (McLachlan), *Setodes*.
Oecetis notata (Rambur), *Mystacida*, C: Type 10979.
Oecetis scala Milne, M.C.Z.Type 19563.
Oecetis ochracea (Curtis), *Leptocerus*.
Mystacida obsoleta Rambur, Cotype M.C.Z.22180, det. Morse.
- Oecetis ochracea carri* Milne, M.C.Z.Holotype 19562, 9P.
Oecetis osteni Milne, M.C.Z.Holotype 19561, 33P, det. Manuel.
Oecetis persimilis (Banks), *Oecetina*, 3: Type 11552; L, La (Ross 1938), [L & La in copula].
Oecetis peruviana (Banks), *Oecetina*, 11: Type 14831; L (Flint 1967).
Oecetis pilosa Banks, M.C.Z.Type 22057, P.
Oecetis pretiosa (Banks), *Oecetina*, Type 11762.
Oecetis punctata (Navás), *Oecetina*.
Oecetis punctipennis (Ulmer) *Pseudosetodes*.
Oecetina parishi Banks, Type 11788.
Oecetis separata Banks, M.C.Z.Type 22056.
Oecetis testacea (Curtis), *Leptocerus*, ples, det. Morse.
Oecetis tripunctata (Fabricius), *Phryganea*.
Setodes punctatella Rambur, 2C: Type 10980.
Oecetis unicolor (McLachlan), *Setodes*, det. Tillyard.
Parasetodes maculata Banks.
Leptocella bakeri Banks, Type 11773.
Setodellina mahadeva (Banks), *Oecetina*, Type 11766.
Setodellina punctatissima Schmid, M.C.Z.Paratype 29656.
Setodes argentiferus McLachlan.
Setodes argentipunctellus McLachlan, det. Mosely.
Setodes abhrayita Schmid.
Setodes akchepana Schmid, P.
Setodes apinchanga Schmid, P.
Setodes arenatus Holzenthal 1982, P etoh.
Setodes argentatus Matsumura.
Setodes aureomicans Schmid, M.C.Z.Holotype 33276.
Setodes chandravarana Schmid, P.
Setodes divyarupa Schmid, P.
Setodes dixiensis Holzenthal 1982, P etoh.
Setodes flavipennis Banks, P: M.C.Z.Type 22053.
Setodes guttatus (Banks), *Oecetina*, Type 11560; det. Holzenthal.
Setodes incertus (Walker), *Leptocerus*, det. Holzenthal.
Setodes autumnalis Banks, Type 11565.
Setodes vernalis Banks, Type 11566, det. Holzenthal.
Setodes inlensis Martynov, det. Schmid.
Setodes iris Hagen, 4: Type 10986.
Setodes kadrava Schmid, P.
Setodes lineatus Banks, Type 11763.
Setodes madhuvarna Schmid, P.
Setodes monicae Schmid, P.
Setodes oligius (Ross), *Leptocerus*, det. Holzenthal.
Setodes pellucidulus Schmid, M.C.Z.Holotype 33275, A.
Setodes punctatus (Fabricius), *Phryganea*, det. Hagen.
Setodes spinosellus Ulmer.
Setodes stehri (Ross), *Leptocerus*, M.C.Z.Paratype 26846.
Setodes subhachita Schmid, P.
Setodes terminalis Banks, Type 10884.
Setodes turbatus (Navás), *Oecetis*.
Setodes viridis (Fourcroy), *Phryganea*.
Setodes uttamavarna Schmid, P.
Setodes vratachakora Schmid, P.
Setodina parva Banks, 3: Type 11562; L (Ross 1938).
Symphitoneuria wheeleri Banks, [M.C.Z.Type 22078 in ANIC (Neboiss 1983)].
Tagalopsyche sisyrroides Banks, Type 11776.
Trienodes abus Milne, det. Manuel.
Trienodes bicolor (Curtis), *Leptocerus*, det. Manuel.
Trienodes boettcheri Ulmer.
Trienodes borealis Banks, Type 11586; L (Ross 1938), [1 syntype of *borealis* is *flavescens*, det. Manuel].
Trienodes cloe (Hagen), *Setodes*, 3: Type 10987.
Trienodes delicatus Navás.
Trienodes dipsius Ross, det. Manuel.
Trienodes dubius Mosely.
Trienodes flavescens Banks, 4: Type 11588; L (Ross 1938), [cf. *borealis*].
Trienodes fulvus Navás.
Trienodes furcellus Ross, det. Manuel.
Trienodes gazella (Hagen), *Setodes*, 3: Type 10983.
Trienodes helo Milne, Type 10974.
Trienodes ignitus (Walker), *Leptocerus*, det. Manuel.
Trienodes dentatus Banks, Type 11589; L (Ross 1938).
Trienodes injustus (Hagen), *Setodes*, Type 10976; L (Ross 1938), det. Manuel.
Trienodes marginatus Sibley, det. Manuel.
Trienodes manni Banks, M.C.Z.Type 22043, 4P.
Trienodes nox Ross, det. Manuel.
Trienodes ochraceus (Betten & Mosely), *Trienodella*, det. Manuel.
Trienodes ornatus Ulmer.
Trienodes palpalis Banks, Type 10895.
Trienodes tardus Milne, as ssp. of *marginata*, M.C.Z.Type 19547, 5P; etoh.
Trienodes mephitus Milne, M.C.Z.Type 22384.
Trichosetodes insularis Schmid, M.C.Z.Holotype 33277.

- Trichosetodes meghawanabaya* Schmid, M.C.Z.Paratype 29657.
Triplectides australicus Banks, [M.C.Z.Type 22080 & 2P in ANIC (Neboiss 1983)].
Triplectides elongatus Banks, [M.C.Z.Type 22079 & P in ANIC (Neboiss 1983)].
Triplectides griseus (Banks), *Notanatoica*, Type 14821, [MCZ type missing], [type present at NMNH, pers. comm. J.C.Morsel].
Triplectides parvus (Banks), *Notanatoica*, [M.C.Z.Type 22077 & P in ANIC (Neboiss 1983)].
Ylodes frontalis (Banks), *Triaenodes*, Type 11587, 2ndA (Ross 1938), det. Manuel.
Ylodes reuteri (McLachlan), *Triaenodes*, det. Manuel.
Triaenodes griseus Banks, 2: Type 11585; L, 2ndA (Ross 1938).
- GOERIDAE ULMER**
Goera calcarata Banks, Type 11707, 2ndA (Carpenter 1933).
Goera disparilis Banks, M.C.Z.Type 22048, P.
Goera fijiana Banks, Type 14819.
Goera fuscata Banks, C: Type 11708.
Goera japonica Banks, Type 11831.
Goera mustellina (Hagen), *Mormonia*, 3: Type 10944.
Goera octospina Banks, Type 10883.
Goera parvula Martynov, M.C.Z.Paratype 22701.
Goera pilosa (Fabricius), *Phryganea*.
Lasiostoma fulvum Rambur, Cotype M.C.Z.22175.
Goera tagalica Banks, Type 16417.
Goera uniformis Banks, Type 16470.
Goera vulpina (Hagen), *Mormonia*, 3: Type 10945; L [on 2 slides] (Mosely 1938).
Goerita semata Ross, M.C.Z.Paratype 23571 etoh.
Lithax incanus (Hagen), *Silo*, 2: Type 10949.
Lithax niger (Hagen), *Silo*, 4: Type 10947.
Lithax obscurus (Hagen), *Silo*, Type 10948.
Silo alupkensis Martynov.
Silo duplex Hagen, Type 10950.
Silo nigricornis (Pictet), *Trichostoma*.
Silo pallipes (Fabricius), *Phryganea*.
Silo piceus (Brauer), *Aspatherium*.
Silo proximus Martynov.
Silonella aurata (Hagen), *Silo*, Type 10952, det. Weaver.
- LIMNEPHILIDAE KOLENATI**
APATANIINAE WALLENGREN
Apatania bellicosa (Martynov), *Baicalina*, det. Weaver.
Apatania copiosa (McLachlan), *Apatidea*.
Apatania fimbriata (Pictet), *Phryganea*, Cotype M.C.Z.22171.
Apatania incerta (Banks), *Enoicyla*, 3: Type 11681; L, La (Ross 1938).
Apatania majuscula McLachlan, ples.
Apatania muliebris McLachlan, 2C: Type 10754.
Apatania shoshone Banks, 3: Type 14850; L, La (Ross 1938).
Apatania stigmatella (Zetterstedt), *Phryganea*, etoh.
Apatania subtilis Martynov, 2C: Type 11295.
Apatania wallengreni McLachlan, 2C: Type 10753.
Apatania zonella (Zetterstedt), *Phryganea*.
Moropsyche parvula Banks, Type 11829.
Radema bellicosum (Martynov), *Baicalina*, C: Type 11288.
Radema foliatum (Martynov), *Baicalina*, C: Type 11289.
Radema infernale Hagen, Type 10755.
Thamastes dipterus Hagen, 4: Type 10751.
- DICOSMOECINAE SCHMID**
Allocosmoecus partitus Banks, Type M.C.Z.25760.
Allomyia acanthis (Ross), *Imania*, 2: M.C.Z.Paratype 28443.
Allomyia bifosa (Ross), *Imania*, Holotype [also labeled: M.C.Z.Paratype 28444], 2P.
Allomyia renoa (Milne), *Algonquina*, M.C.Z.Type 20126, 3P.
Allomyia tripunctata (Banks), *Apatania*.
Cryptochia pilosa (Banks), *Parachiona*, M.C.Z.Type 11668, det. Ross.
Dicosmoecus atripes (Hagen), *Platyphylax*, Type 10701; L (Ross 1938); etoh.
Dicosmoecus jucundus Banks, M.C.Z.Type 25887, 4P; [P at ANSP].
Dicosmoecus nigrescens Banks, M.C.Z.Type 25830, P.
Dicosmoecus gilvipes (Hagen), *Stenophylax*, 2: Type 10706; L (Ross 1938).
Dicosmoecus grandis Ulmer.
Dicosmoecus obscuripennis Banks, M.C.Z.Type 22658.
Dicosmoecus palatus (McLachlan), *Stenophylax*.
Dicosmoecus pallicornis Banks, M.C.Z.Type 25829; [P at ANSP].
Ecclisocosmoecus scylla (Milne), *Ecclisomyia*, M.C.Z.Paratype 20130.
Ecclisomyia conspersa Banks, Type 11679.
Ecclisomyia maculosa Banks, Type 11680; L, 2ndA (Ross 1938); etoh.
Ecclisomyia simulata Banks, Type 10876.
Eocosmoecus frontalis (Banks), *Drusinus*, M.C.Z.Type 25839.
- Evanophanes insignis* Banks.
Ironoquia lyrata (Ross), *Carborius*.
Ironoquia parvula (Banks), *Chaetopterygopsis*, Type 11639.
Ironoquia punctatissima (Walker), *Halesus*.
Magellomyia appendiculata (Ulmer), *Stenophylax*, det. Mosely.
Algonquina chilensis Banks, Type 10869.
Magellomyia moesta Banks, Type 10867.
Magellomyia capillata (Ulmer), *Limnophilus*,
Ironoquia australis Banks, Type 10868; L (Flint 1967).
Monocosmoecus vanderweelii Ulmer, C: Type 11789.
Nothopsyche pallipes Banks, Type 11828.
Nothopsyche ruficollis (Ulmer), *Chilostigma*.
Onocosmoecus unicolor (Banks), *Anabolia*, Type 11633.
Dicosmoecus alascensis Banks, M.C.Z.Type 25831, P.
Dicosmoecus coloradensis Ulmer.
Dicosmoecus occidentis Banks, M.C.Z.Type 25832, 11P.
Anabolia quadrinotatus Banks, Type 11675.
Asynarchus tristis Banks, 3: Type 11634; L & La (Ross 1938) [L by Ross absent], new L (Wiggins & Richardson 1986)].
- DRUSINAE BANKS**
Anomalopterygella chauviniana (Stein), *Anomalopteryx*, 4: Type 10750.
Cryptothrix nebulicola McLachlan, C: Type 10743.
Drusus alpinus (Meyer-Dür), *Halesus*, det. Mosely.
Drusus annulatus (Stephens), *Anabolia*, ples.
Drusus biguttatus (Pictet), *Phryganea*.
Drusus brunneus Klapálek.
Drusus chrysotus (Rambur), *Limnephila*.
Drusus destitutus (Kolenati), *Stathmophorus*, dry larvae.
Drusus discolor (Rambur), *Limnephila*, Cotype M.C.Z.22164.
Drusus melanchaetes McLachlan.
Drusus mixtus (Pictet), *Phryganea*, C: Type 10691.
Drusus moticola McLachlan.
Drusus muelleri McLachlan, det. Schmid.
Drusus nigrescens Meyer-Dür.
Drusus rectus McLachlan.
Drusus rectus nigrorectus Mosely, 2: M.C.Z.Patotype 22453.
Drusus tenellus (Klapálek), *Catadice*.
Drusus trifidus McLachlan.
Ecclisopteryx dalecarlica Kolenati.
Ecclisopteryx dziedzielewiczi Klapálek.
Ecclisopteryx guttulata (Pictet) *Phryganea*, Cotype M.C.Z.22165.
Ecclisopteryx madida (McLachlan), *Halesus*.
Metanoea flavipennis (Pictet), *Phryganea*, C: Type 10696.
- LIMNEPHILINAE KOLENATI**
Acrophylax zerberus Brauer, C: Type 10707.
Allogamus auricollis (Pictet), *Phryganea*, ples.
Allogamus hiliaris (McLachlan), *Halesus*.
Allogamus lignonifer (McLachlan), *Halesus*, C: Type 10694.
Allogamus mendax (McLachlan), *Halesus*, det. Schmid.
Allogamus uncatatus (Brauer), *Halesus*.
Anabolia bimaculata (Walker), *Limnephilus*, etoh.
Anabolia brevipennis (Curtis), *Limnephilus*, etoh.
Anabolia concentrica (Zetterstedt), *Phryganea*.
Arctoecia dualis McLachlan, C: Type 10709.
Anabolia consocia (Walker), *Goniotaulius*.
Colpotaulius medialis Banks, 3: Type 11656; L, La (Ross 1938).
Anabolia furcata Brauer, C: Type 10714.
Anabolia lombarda Ris, det. Mosely.
Anabolia nervosa (Curtis), *Limnephilus*.
Anabolia nervosa var. *excisa* McLachlan, Type 14897.
Anabolia ozburni (Milne), *Arctoecia*, M.C.Z.Type 20121, 2P.
Anabolia sordida Hagen, Type 10710; L (Ross 1938).
Anabolia longicercus Denning, M.C.Z.Paratype 25860.
Anabolia soror McLachlan, C: Type 10712.
Anavolia sororcula McLachlan, 2C: Type 10713.
Anabolia subquadrata Martynov, det. Mosely.
Anisogamus difformis (McLachlan), *Stenophylax*, 2C: Type 10708.
Anisogamus noricanus McLachlan.
Annitella chomiensis (Dziedzielewicz), *Heliconis*.
Annitella kosciuszki Klapálek.
Annitella obscurata (McLachlan), *Chaetopteryx*, C: Type 10749.
Annitella thuringica (Ulmer), *Heliconis*.
Arctopora pulchella (Banks), *Limnephilus*, 4: Type 11626; L, La (Ross 1938).
Arctopora trimaculata (Zetterstedt), *Phryganea*.
Asynarchus amurensis (Ulmer), *Limnophilus*, det. Schmid.
Asynarchus iteratus McLachlan.
Anabolia emarginata Banks, P: Type 11682.
Asynarchus lapponicus (Zetterstedt), *Phryganea*.
Stenophylax fusorius McLachlan, C: Type 10704.
Anabolia modesta Hagen, Type 10711; L (Ross 1938), [without abdomen].
Asynarchus montanus (Banks), *Anabolia*, 3: Type 11661; L (Ross 1938).
Anabolia curta Banks, 3: Type 10874; L, La (Ross 1938).
Limnephilus conerus Ross, 4: M.C.Z.Paratype 28445.

- Asynarchus mutatus* (Hagen), *Halesus*, Type 10688; L, 2ndA (Ross 1938).
- Asynarchus nigriculus* (Banks), *Anabolia*, 2: Type 11664; L (Ross 1938); etoh.
- Asynarchus pacificus* (Banks), *Stenopsyche*, 4: Type 11663; L, La (Ross 1938).
Limnephilus nepus Ross [unnecessary new name proposed by Ross (1938), for *A. pacificus*].
- Asynarchus planifrons* (Kolenati), *Desmotaulius*.
- Asynarchus simplex* Banks.
- Chaetopterygopsis maclachlani* Stein.
- Chaetopteryxopsis maclachlani* zaitzevi Martynov, C: Type 11292.
- Chaetopteryx clara* McLachlan, C: Type 10748.
- Chaetopteryx fusca* Brauer, C: Type 10747.
- Chaetopteryx major* McLachlan.
- Chaetopteryx sahlbergi* McLachlan.
- Chaetopteryx villosa* (Fabricius), *Phryganea*.
Phryganea tuberculosa Pictet, Cotype M.C.Z.22167.
- Chilostigma sieboldi* McLachlan, C: Type 10744.
- Chilostigmodes areolatus* (Walker), *Limnephilus*.
- Chyranda centralis* (Banks), *Asynarchus*, 2: Type 11670; L (Ross 1938); etoh.
Asynarchus pallidus Banks, 3: Type 11671; L (Ross 1938).
Parachiona signata Banks, Type 11667.
- Clistoronia flavicollis* (Banks), *Asynarchus*.
- Clistoronia formosa* (Banks), *Halesus*, Type 11654.
- Clistoronia maculata* (Banks), *Dicosmoecus*, 2: Type 11653; L, La (Ross 1938).
- Clistoronia magnifica* (Banks), *Halesus*, Type 11655.
- Clostoea disjuncta* (Banks), *Anisogamus*, 4: Type 11673; L, La (Ross 1938); [C at ANSP].
Clostoea sperryae Banks, M.C.Z.Type 25821, P.
- Conosorophylax montivagus* (McLachlan), *Stenophylax*.
- Enoicyla pusilla* (Burmeister), *Limnephilus*.
Dromophila montana Hagen, 2: Type 10752.
Enoicyla sylvatica Rambur, 2: Cotype M.C.Z.22168.
- Enoicyla reichenbachii* (Kolenati), *Ptyopteryx*.
- Frenesia difficilis* (Walker), *Limnephilus*.
Chilostigma pallida Banks, Type 11665.
- Frenesia missa* (Milne), *Chilostigma*, 2: M.C.Z.Type 20149, 22P.
- Glyphopsyche irrorata* (Fabricius), *Phryganea*.
Glyphopsyche bryanii Banks, 2: Type 11640; L, La (Ross 1938).
Limnephilus intercisus Walker, C: Type 10745.
- Glyphopsyche missouri* Ross, 2: M.C.Z.Paratype 26842.
- Glyptothaelius pellucidus* (Retzius), *Phryganea*.
- Grammotaulius bettenii* Hill-Griffin.
- Grammotaulius interrogatoris* (Zetterstedt), *Phryganea*.
Grammotaulius praecox Hagen, 2: Type 10732; L, La (Ross 1938).
- Grammotaulius lorettae* Denning.
- Grammotaulius nigropunctatus* (Retzius), *Phryganea*.
- Grammotaulius nitidus* (Müller), *Phryganea*.
- Grammotaulius sibiricus* McLachlan, det. Mosely.
- Grammotaulius submaculatus* (Rambur), *Limnephila*, C: Type 10725.
- Grensia praeterita* (Walker), *Limnephilus*, C: Type 10746.
- Halesus digitatus* (Schränk), *Phryganea*.
- Halesus interpunctatus* (Zetterstedt), *Phryganea*, dry larvae.
- Halesus radiatus* (Curtis), *Limnephilus*.
- Halesus ruficollis* (Pictet), *Phryganea*, C: Type 10692.
- Halesus ruficollis melanoholicus* McLachlan, C: Type 10693.
- Halesus tessellatus* (Rambur), *Limnephila*.
- Helesochila taylori* (Banks), *Halesus*, 3: Type 11666; L (Ross 1938).
- Hesperophylax alaskensis* (Banks 1908), *Platyphylax*, 3: Type 11647, L (Ross 1938).
- Hesperophylax consimilis* (Banks), *Limnephilus*, 2: Type 11612; L, La (Ross 1938).
- Hesperophylax designatus* (Walker), *Limnephilus*, C: Type 10699, [cf. *magnus*].
Hesperophylax incisus Banks, M.C.Z.Type 25761, 14P.
- Hesperophylax designatus* var. *isolatus* Banks, M.C.Z.Type 25846, P.
- Hesperophylax magnus* Banks, 4: Type 10075; L, La (Ross 1938), etoh, [♀ La and 2♀ syntypes are actually *designatus* (Banks 1943)]; [Type assigned new catalogue no., 33511].
- Hesperophylax occidentalis* (Banks), *Platyphylax*, 6: Type 11646; L, La (Ross 1938); etoh.
- Hydatophylax argus* (Harris), *Phryganea*, [Type in Harris coll.].
- Hydatophylax grammicus* (McLachlan), *Stenophylax*.
- Hydatophylax hesperus* (Banks), *Stenophylax*, Type 11652.
- Hydatophylax infumatus* (McLachlan), *Stenophylax*, C: Type 10705.
- Hydatophylax magnus* (Martynov), *Stenophylax*, C: Type 11290.
- Hydatophylax nigrovittatus* (McLachlan), *Platyphylax*, C: Type 10698.
- Hydatophylax variabilis* (Martynov), *Platyphylax*, C: Type 11291.
- Hydatophylax victor* Banks, 3: M.C.Z.Paratype 28499.
- Isogamus aequalis* (Kapálek), *Asisogamus*.
- Lenarchus brevipennis* (Banks), *Stenophylax*, 2: Type 11662 L (Ross 1938).
- Lenarchus crassus* (Banks), *Limnophilus*, Type 10871.
- Lenarchus gravidus* (Hagen), *Limnophilus*, Type 10723; L (Ross 1938).
Limnephilius rotundatus Banks, Type 10070.
- Lenarchus keratus* (Ross), *Limnephilus*, 2: topo.
- Lenarchus rho* (Milne), *Limnephilus*, 2: M.C.Z.Type 20127, 2P.
- Lenarchus rillus* (Milne), *Limnephilus*, M.C.Z.Type 20128.
- Lenarchus vastus* (Hagen), *Limnophilus*, Type 10724; L (Ross 1938).
Limnephilus intermedius Banks, M.C.Z.Type 10071, P.
- Leptophylax gracilis* Banks, 2: Type 11637; L (Ross 1938).
- Limnephilus abbreviatus* Banks, 2: Type 11625; L, La (Ross 1938), etoh.
- Limnephilus affinis* Curtis, ples.
- Limnephilus argenteus* Banks, Type 11618; 2ndA (Ross 1938).
- Limnephilus assimilis* (Banks), *Anabolia*, 3: Type 11648; L, La (Ross 1938).
- Limnephilus auricula* Curtis.
Limnephila guttata Rambur, Cotype M.C.Z.22160.
- Limnephilus bifidus* Banks, 2: Type 11627; L (Ross 1938).
- Limnephilus binotatus* Curtis.
- Limnephilus bipunctatus* Curtis, ples.
Limnephila obscura Rambur, C: Type 10717.
Limnephilus tuberculatus Brauer, C: Type 10716.
- Limnephilus borealis* (Zetterstedt), *Phryganea*, 2: ples.
- Limnephilus borealis mutabilis* Martynov, *Limnophilus*, C: Type 11286.
- Limnephilus canadensis* Banks, 2: Type 11619; L (Ross 1938).
- Limnephilus centralis* Curtis.
- Limnephilus cockerelli* Banks, *Limnophilus*, 2: Type 11613; L, 2ndA (Ross 1938), det. Ruiter.
- Limnephilus coenosus* Curtis, ples.
- Limnephilus coloradensis* (Banks), *Goniotaulius*, 2: Type 11621; L (Ross 1938); etoh.
- Limnephilus concolor* Banks, 2: Type 11611; L, La (Ross 1938), det. Flint.
- Limnephilus discolor* (Banks), *Platyphylax*, Type 11817.
- Limnephilus dispar* McLachlan, *Limnophilus*.
Stenophylax minusculus (Banks), Type 11678.
- Limnephilus diversus* (Banks), *Anabolina*, 2: Type 11649; L, La (Ross 1938).
- Limnephilus elongatus* Banks, 2: Type 10870; L, La (Ross 1938).
- Limnephilus externus* Hagen, *Limnophilus*, Type 10727; L (Ross 1938); etoh, det. Ruiter..
Limnophilus congener McLachlan, 2C: Type 10729.
- Limnephilus flavastellus* Banks, 2: Type 10072; L, La (Ross 1938).
- Limnephilus luteolus* Banks, Type 11609.
- Limnephilus oslari* Banks, 2: Type 11632; L (Ross 1938); etoh.
- Limnephilus extricatus* McLachlan.
- Limnephilus femoralis* Kirby.
- Limnephilus femoratus* (Zetterstedt), *Phryganea*, Cotype M.C.Z.22157.
- Limnephilus flavicornis* (Fabricius), *Phryganea*, ples.
- Limnephilus fumosus* (Banks), *Asynarchus*, M.C.Z.Paratype 23408.
- Limnephilus fuscicornis* Rambur *Limnephila*, Cotype M.C.Z.22159.
- Limnephilus fuscinervis* (Zetterstedt), *Phryganea*.
- Limnephilus fuscinervis* var. *nigrosignatus* Martynov, C: Type 11287.
- Limnephilus fuscovittatus* Mutsumura, *Limnophilus*.
Limnophilus subfuscus Ulmer, C: Type 11846.
- Limnephilus germanus* McLachlan, *Limnophilus*, 4C: Type 10726.
- Limnephilus griseus* (Linnaeus), *Phryganea*, ples.
Limnephila variegata Rambur, C: Type 10718.
- Limnephilus hageni* Banks, 5: Type 16316; L, La (Ross 1938).
- Limnephilus harrimani* Banks.
Limnephilus aequalis Banks, 2: Type 11624; L (Ross 1938).
- Limnephilus hirsutus* (Pictet), *Phryganea*, C: Type 10715; 2: ples.
- Limnephilus hyalinus* Hagen, *Limnophilus*, Type 10722; L (Ross 1938).
- Limnephilus ignavus* McLachlan.
- Limnephilus incisus* Curtis.
Limnephila striolata Rambur, C: Type 10733.
- Limnephilus indivisus* Walker.
- Limnephilus infernalis* (Banks), *Anisogamus*, Type 11674; etoh.
- Limnephilus janus* Ross, n.nov. for *Colpotaulius minusculus* Banks, 2: Type 14842; L, La (Ross 1938).
- Limnephilus kennicotti* Banks, Type 10872.
- Limnephilus lithus* (Milne), *Anabolia*, 20120 M.C.Z.Holotype, A, 4P.
- Limnephilus lopho* Ross, P etoh.
- Limnephilus lunatus* Curtis, 3: ples.
- Limnephilus luridus* Curtis.
- Limnephilus marmoratus* Curtis.
Limnephila vitrea Rambur, Cotype M.C.Z.22156.

- Limnephilus marmoratus* var. *nobilis* (Kolenati), *Chaetotaulius*.
Limnephilus miser McLachlan, *Limnophilus*.
Limnephilus moestus Banks, 5: Type 11629; L, La (Ross 1938).
Limnephilus morrisoni Banks, 2: Type 10873; L, La (Ross 1938).
Limnephilus nigriceps (Zetterstedt), *Phryganea*, ples.
Limnephilus forcipatus Banks, Type 14843.
Limnephilus nogus Ross, M.C.Z.Paratype 26844.
Limnephilus occidentalis Banks, 9: Type 11620; L, La (Ross 1938).
Limnephilus ornatus Banks, Type 11628.
Limnephilus pacificus Banks, 4: Type 11610; L (Ross 1938).
Limnephilus pallens (Banks), *Zaporota*, 2: Type 10878; L (Ross 1938).
Limnephilus pantodapus McLachlan, *Limnophilus*.
Limnephilus partitus (Walker), *Goniotaulius*.
Limnephilus adustus Banks, Type 10879.
Limnephilus parvulus (Banks), *Stenopsyche*, Type 11669.
Apolopsyche pallida Banks, *Limnephilus*, 2: Type 14849; L (Ross 1938).
Limnephilus roberti Banks, 3: Type 16318; L, La (Ross 1938).
Limnephilus perjurus Hagen, *Limnophilus*, Type 10721; L (Ross 1938).
Limnephilus perpallidus Walker.
Colpotaulius rhaeus Milne, 3: M.C.Z.Paratype 20125.
Limnephilus picturatus McLachlan, *Limnophilus*.
Limnephilus clausus Banks, 4: Type 14844; L, La (Ross 1938); etoh.
Limnephilus kincaidi Banks.
Limnephilus plaga Walker.
Limnephilus politus McLachlan, ples.
Limnephilus productus Banks, Type 11615; etoh.
Limnephilus rhombicus (Linnaeus), *Phryganea*.
Limnephilus rohweri Banks, Type 11614.
Limnephilus sackeni Banks, Type 16317.
Limnephilus sansoni Banks, 2: Type 10069; L, La (Ross 1938), etoh.
Limnephilus secludens Banks, 2: Type 11623; L (Ross 1938).
Limnephilus sericeus (Say), *Phryganea*, ples.
Anabolia decepta Banks, Type 11660.
Limnephilus sparsus Curtis.
Limnephilus fuscata Rambur, Cotype M.C.Z.22161.
Limnephilus sperryi (Banks), *Rhadicoleptus*, M.C.Z.Type 25757, [type missing].
Limnephilus spinatus Banks, 2: Type 11617; L, La (Ross 1938), etoh.
Limnephilus stigma Curtis.
Limnephilus impura Rambur, C: Type 10728.
Goniotaulius stigmaticus Kolenati, 2: Cotype M.C.Z.22158.
Limnephilus subcentralis Brauer, *Limnophilus*, 2: M.C.Z.Type 22169 [types are probably cotypes].
Limnephilus sublanatus Provancher, *Limnophilus*.
Limnephilus americanus Banks, 2: Type 11631; L (Ross 1938).
Limnephilus macgillivrayi Banks, Type 11622.
Limnephilus submonilifer (Walker), *Goniotaulius*.
Limnephilus pudicus Hagen, 2: Type 10720; L (Ross 1938).
Limnephilus subnitidus McLachlan, *Limnophilus*.
Limnephilus scalenus Wallengren.
Limnephilus tarsalis (Banks), *Colpotaulius*, 3: Type 10880; L (Ross 1938); etoh.
Limnephilus toussiantii Banks, Type 14868.
Limnephilus vittatus (Fabricius), *Phryganea*, ples.
Phryganea elegans Pictet, C: Type 10719.
Melampophylax melampus (McLachlan), *Halesus*, C: Type 10695.
Melampophylax mucoreus (Hagen), *Halesus*, ples.
Melampophylax puncticollis (Pictet), *Phryganea*, Cotype M.C.Z.22163.
Mesophylax aspersus (Rambur), *Limnephila*, Type 14466.
Mesophylax impunctatus McLachlan, ples.
Micropterna fissa (McLachlan), *Stenophylax*, C: Type 10700.
Micropterna lateralis (Stephens), *Halesus*, ples.
Micropterna nycterobia McLachlan.
Micropterna sequax McLachlan.
Micropterna sinensis (Banks), *Psilopterna*, M.C.Z.Paratype 23448.
Micropterna testacea (Gmelin), *Phryganea*.
Nemotaulius admorsus (McLachlan), *Limnephilus*.
Nemotaulius brevilinea (McLachlan), *Grammataulius*.
Nemotaulius hostilis (Hagen), *Glyphotaelius*, 2: Type 10730; L, La (Ross 1938); etoh.
Nemotaulius mutatus (McLachlan), *Glyphotaelius*.
Nemotaulius punctatolineatus (Retzius), *Phryganea*.
Nemotaulius punctatolineatus var. *frigidus* (Hagen), *Glyphotaelius*, 3: Type 10731.
Parachiona picicornis (Pictet), *Phryganea*, C: Type 22166.
Phanocelia canadensis (Banks), *Apatania*, 2: Type 14851; L (Ross 1938).
Philarectus bergrothi McLachlan.
Philarectus quaeris (Milne), *Colpotaulius*, M.C.Z.Type 20124, A, 6P.
Philoscasca antennata (Banks), *Stenophylax*, Type 11677.
Philoscasca demita Ross.
Platycentropus amicus (Hagen), *Halesus*, Type 10690; L (Ross 1938).
Platycentropus plectrus Ross, M.C.Z.Paratype 23720.
Platycentropus indistinctus (Walker), *Limnephilus*.
Hylepsyche fraternus Banks, 2: M.C.Z.Paratype 25802.
Platycentropus radiatus (Say), *Phryganea*.
Halesus hostis Hagen, 2: Type 10689; L, La (Ross 1938).
Platyphylax frauenfeldi (Brauer), *Einoicyla*.
Potamophylax latipennis (Curtis), *Limnephilus*, 4: ples.
Limnephila radiata Rambur, Cotype M.C.Z.22170.
Potamophylax luctuosus (Filler & Mitterpacher), *Phryganea*.
Potamophylax nigricornis (Pictet), *Phryganea*, ples.
Potamophylax rotundipennis (Brauer), *Anabolia*, 2: M.C.Z. Paratype 22162.
Pseudopsilopteryx zimmeri (McLachlan), *Psilopteryx*.
Psychoglypha alascensis (Banks 1900), *Helesus*.
Glyphopsyche ullus Milne, 3: M.C.Z.Paratype 20123.
Psychoglypha bella (Banks), *Glyphotaelius*, Type 11641; 2^aA (Ross 1938).
Psychoglypha rossi Schmid, det. Weaver.
Psychoglypha subborealis (Banks), *Chilostigma*, 7: Type 14847; L, La (Ross 1938).
Psychoglypha prita (Milne), *Glyphopsyche*, M.C.Z.Type 20122.
Psychoronia brevipennis (Banks), *Psilopteryx*, Type 11657.
Psychoronia costalis (Banks), *Asynarchus*, 2: Type 11676; L (Ross 1938).
Pycnopsyche aglona Ross, M.C.Z.Paratype 25701.
Pycnopsyche antica (Walker), *Neuronida*.
Pycnopsyche circularis (Provancher), *Platyphylax*.
Pycnopsyche conspersa Banks, Type 25826.
Pycnopsyche divergens (Walker), *Limnephilus*.
Pycnopsyche flavata (Banks), *Stenophylax*, Type 11651.
Pycnopsyche gentilis (McLachlan), *Stenophylax*.
Pycnopsyche guttifer (Walker), *Halesus*.
Pycnopsyche similis Banks, 2: Type 11659; L (Ross 1938).
Pycnopsyche indiana (Ross), *Stenophylax*.
Pycnopsyche lepida (Hagen), *Einoicyla*, Type 10697; L (Ross 1938).
Pycnopsyche limbata (McLachlan), *Stenophylax*.
Pycnopsyche luculenta (Betten), *Stenophylax*.
Pycnopsyche minima Banks, M.C.Z.Type 25825, 3P.
Pycnopsyche perplexa Betten & Mosely, A.
Pycnopsyche scabripennis (Rambur), *Limnephila*, M.C.Z.Cotype 25824.
Pycnopsyche sonso (Milne), *Stenophylax*, M.C.Z.Holotype 20150, A, 3P.
Pycnopsyche subfasciata (Say), *Phryganea*, etoh.
Rhadicoleptus alpestris (Kolenati), *Stenophylax*.
Rhadicoleptus spinifer (McLachlan), *Stenophylax*.
Rhadicoleptus ucnorum (McLachlan), *Stenophylax*, 2C: Type 10703.
Stenophylax mitis McLachlan, C: Type 10702.
Stenophylax permistus McLachlan, 2: ples.
Stenophylax vibex (Curtis), *Limnephilus*.
Stenophylax speluncarum McLachlan.
PSEUDOSTENOXYLACINAE SCHMID
Homophylax andax Ross, M.C.Z.Paratype 25862.
Homophylax crotchi Banks, 2: Type 10877; L (Ross 1938).
Homophylax flavipennis Banks, 2: Type 11635; L, La (Ross 1938).
Homophylax nevadensis Banks, Type 11636.
Pseudostenophylax amplus (McLachlan), *Halesus*.
Pseudostenophylax brevis Banks, M.C.Z.Paratype 23450.
Pseudostenophylax difficilis Martynov, topo.
Pseudostenophylax edwardsi (Banks), *Anisogamus*, 2: Type 10881, L, La (Ross 1938).
Anisogamus atripennis Banks, Type 14846.
Pseudostenophylax grahami Martynov.
Pseudostenophylax himalayanus Martynov, C: Type 16443.
Pseudostenophylax hirsutus Forsslund.
Pseudostenophylax monticola Banks, 4: M.C.Z.Paratype 23451.
Pseudostenophylax mimicus Banks, 2: M.C.Z.Paratype 23449.
Pseudostenophylax rufescens (Martynov), *Platyphylax*.
Pseudostenophylax sparsus (Banks), *Halesus*, Type 11658.
Stenophylax calypso Banks, 2: Type 11672; L (Ross 1938).
Pseudostenophylax uniformis (Betten), *Drusinus*.
Pseudostenophylax virginicus (Banks), *Potamorites*, Type 11638.
UENOIDAE IWATA
Neophylax albipunctatus (Martynov), *Halesinus*.
Neophylax atlanta Ross, P etoh.
Neophylax concinnus McLachlan, etoh, det. Vineyard.
Neophylax autumnus Vorhies, C: Type 11644; etoh.
Neophylax consimilis Betten, det. Vineyard.
Neophylax delicatus Banks, M.C.Z.Type 25842.
Neophylax fenestratus (Banks), *Halesinus*, M.C.Z.Paratype 23447.
Neophylax fuscus Banks, 4: Type 11643; L, La (Ross 1938), det. Vineyard.

Neophylax mitchelli Carpenter, M.C.Z.Type 19440, det. Vineyard.
Neophylax occidentis Banks, 2: Type 14848; L (Ross 1938).
Acronopsyche pilosa Banks, 3: Type 16319; L, La (Ross 1938).
Neophylax oligius Ross, det. Vineyard.
Neophylax ornatus Banks, Type 10875.
Neophylax rickeri Milne, 4: M.C.Z.Paratype 20129, det. Vineyard.
Neophylax slossonae Banks, M.C.Z.Type 25841.
Neophylax splendens Denning, det. Vineyard.
Neophylax tenuicornis (Ulmer), *Halesinus*.
Neothremma alicia Dodds & Hisaw, 2: Type 16320; L, La (Ross 1938); etoh.
Neothremma didactyla Ross, P etoh.
Oligophlebodes minutus (Banks), *Halesus*, Type 11642; etoh.
Apatania pictula Banks, M.C.Z.Type 25820.
Oligophlebodes sierra Ross, M.C.Z.Paratype 26843.
Oligophlebodes sigma Milne, 2: M.C.Z.Type 20131, 8P.
Thremma gallicum McLachlan, det. Mosely.
Thremma sardoum Costa, det. Mosely.

OECONESIDAE TILLYARD

Oeconesus maori (McLachlan), *Oeconesus*.
Pseudoeconesus mimus McLachlan.

LEPIDOSTOMATIDAE ULMER

Crunoecia irrorata (Curtis), *Goera*.
Crunoeciella orientalis Tsuda, det. Flint.
Dinarthodes albicorne (Banks) *Crunoecia*, Type 11830; L (Weaver 1985).
Dinarthropsis picea Ulmer.
Dinarthodes niger Banks, Type 11780; L (Weaver 1985).
Dinarthrum ferox McLachlan.
Dinarthrum longiplicatum Martynov.
Dinarthrum mesoplicatum Martynov.
Dinarthrum ulmeri Martynov, topo, det. Weaver.
Goerodes abruptus Banks, Type 16473; L (Weaver 1985).
Goerodes apoanus (Banks), *Goerinella*, M.C.Z.Type 22049, 19P; L (Weaver 1985).
Goerodes bicolor (Banks), *Goerinella*, M.C.Z.Type 22050; L (Weaver 1985).
Goerodes corniger Ulmer, C: Type 11842, det. Flint.
Goerodes diehli Weaver, P.
Goerodes flavus (Ulmer), *Crunoeciella*.
Goerodes grandis (Banks), *Goerinella*, Type 16500; L (Weaver 1985).
Goerodes medius (Banks), *Goerinella*, P: M.C.Z.Type 20183.
Goerodes minor (Banks), *Goerinella*, Type 16418; L (Weaver 1985).
Goerodes pendleburyi Weaver, Holotype 33356.
Goerodes piscinus (Hagen), *Mormonia*, 2: Type 10946; L (Weaver 1985).
Goerodes posticatus (Banks), *Goerinella*, Type 16471; L (Weaver 1985).
Goerodes sjoestedti (Ulmer), *Crunoeciella*.
Goerodes ursinus (Hagen), *Mormonia*, 2: Type 10943; L (Weaver 1985).
Goerodes venularis (Banks), *Goerinella*, 2: Type 16474; L (Weaver 1985).
Goerodes continuata Banks, 5: Type 16472; L (Weaver 1985).
Lasiocephala basalis (Kolenati), *Goera*.
Lepidostoma americanum (Banks), *Olemira*, Type 11700; L (Weaver 1988).
Lepidostoma bryanti (Banks), *Alepomyia*, 2: Type 11709; L (Ross 1938).
Lepidostoma wisconsinense Vorhies, C: Type 11688; L (Weaver 1988).
Lepidostoma carolina (Banks), *Notiopsyche*, 2: Type 11704; L (Ross 1938).
Lepidostoma cinereum (Banks), *Silo*, Type 11691; L (Weaver 1988).
Lepidostoma costale (Banks), *Olemira*, Type 11701; L, 2ndA (Ross 1938); etoh.
Lepidostoma deceptivum (Banks), *Thremma*, Type 11706; L (Weaver 1988).
Lepidostoma frontale (Banks), *Eremopsyche*, Type 11825; L (Weaver 1988).
Lepidostoma frosti (Milne), *Atomyia*, M.C.Z.Holotype 22276, 6P.
Lepidostoma griseum (Banks), *Phanopsyche*, 2: Type 11693; L (Ross 1938); etoh.
Lepidostoma hirtum (Fabricius), *Phryganea*.
Lepidostoma villosum Rambur, Cotype M.C.Z.22179.
Lepidostoma latipenne (Banks), *Notiopsyche*, Type 11703; L (Weaver 1988); 2ndA (Carpenter 1933).
Lepidostoma liba Ross, M.C.Z.Paratype 26848.
Lepidostoma mexicanum (Banks), *Olemira*, Type 11824; L (Weaver 1988).
Lepidostoma modestum (Banks), *Atomyia*, 2: Type 11702; L (Ross 1938); [C at ANSP].
Lepidostoma ontario Ross, 3: M.C.Z.Paratype 25863.

Lepidostoma pictile (Banks), *Mormonia*, Type 11699; L (Weaver 1988).
Lepidostoma pluviale (Milne), *Olemira*, M.C.Z.Holotype 22275, 5P.
Lepidostoma podagrum (McLachlan), *Nosopus*, Type 10941 [type probably ples.].
Lepidostoma prominens (Banks), *Arcadopsyche*, 4: Type 16321; L, La (Ross 1938).
Lepidostoma roafi (Milne), *Atomyia*, M.C.Z.Holotype 22277, 3P.
Lepidostoma sackeni (Banks), *Mormomyia*, M.C.Z.Type 22667, P, L (Weaver 1988).
Lepidostoma stigma Banks, 3: Type 11692; L (Ross 1938); etoh.
Lepidostoma tibiale (Carpenter), *Neuropsyche*, M.C.Z.Type 19442, A, 14P.
Lepidostoma togatum (Hagen), *Mormonia*, 2: Type 10942; L (Ross 1938); etoh.
Silo pallidus Banks, Type 11690; L (Weaver 1988).
Pristosilo canadensis Banks, Type 11689; L (Weaver 1988).
Lepidostoma unicolor (Banks), *Mormomyia*, Type 11686; L (Weaver 1988).
Lepidostoma vernale (Banks), *Mormonia*, 5: Type 11687; L, La (Ross 1938).
Maniconeura penicillata McLachlan.
Neoseverinia crassicornis (Ulmer), *Severinia*, C: Type 11843.
Theliopsyche grisea (Hagen), *Silo*, Type 10951; L (Weaver 1988).
Theliopsyche parva Banks, 4: Type 11710; L, La (Weaver 1988); [C at ANSP].

BRACHYCENTRIDAE ULMER

Brachycentrus adoxus McLachlan, 2: Type 10954.
Brachycentrus albescens McLachlan.
Brachycentrus americanus (Banks), *Oligoplectrum*, Type 11705, det. Flint.
Brachycentrus similis Banks, 2: Type 11684; L, La (Ross 1938); etoh.
Brachycentrus incanus Hagen, Type 10955; L (Ross 1938), det. Flint.
Brachycentrus lateralis (Say), *Phryganea*, det. Flint.
Brachycentrus maculatum (Fourcroy), *Phryganea*.
Dasytoma pulchellum Rambur, Cotype M.C.Z.22177.
Brachycentrus montanus Klapálek.
Brachycentrus nigrosoma (Banks), *Sphinctogaster*, Type 11683, det. Flint.
Brachycentrus notabulus Milne, M.C.Z.Holotype 22274, A, 3P, det. Flint.
Brachycentrus numerosus (Say), *Phryganea*, det. Flint.
Brachycentrus occidentalis Banks, 2: Type 11685; L (Ross 1938), det. Flint.
Brachycentrus solomoni Flint, 2P, det. Flint.
Brachycentrus spinae Ross, P etoh.
Brachycentrus subnubilus Curtis.
Pogonostoma vernum Rambur, Cotype M.C.Z.22176.
Eobrachycentrus vernalis (Banks), *Brachycentrus*, Type 11832.
Micrasema borneense Banks, 4: Type 16499.
Micrasema charonis Banks, 2: Type 11698; L (Ross 1938).
Micrasema cinereum Mosely, P: Type 16450.
Micrasema dimicki (Milne), *Oligoplectrum*, 2: M.C.Z.Paratype 22273.
Micrasema gelidum McLachlan.
Micrasema scissum McLachlan.
Micrasema longulum McLachlan.
Micrasema minutum (Pictet), *Sericostoma*.
Micrasema moestum (Hagen), *Dasytoma*, Type 10935.
Micrasema morosum (McLachlan), *Oligoplectrum*, det. Mosley.
Micrasema tristellum McLachlan, det. Mosley.
Micrasema naevum (Hagen), *Dasytoma*, 3: Type 10936.
Micrasema nigrum (Brauer), *Dasytoma*, C: Type 10937.
Micrasema onisca Ross, P etoh.
Micrasema rusticum (Hagen), *Dasytoma*, 5: Type 10938; L, La (Ross 1938).
Micrasema falcatum Banks, 12: Type 11697; L (Ross 1938).
Micrasema setiferum (Pictet), *Rhyacophila*, Cotype M.C.Z.22178.
Oligoplectrodes potanini Martynov, det. Mosley.

BERAEIDAE WALLENGREN
Beraea aureomarginata Mosely, P: Type 16448.
Beraea maurus (Curtis), *Thya*, 2: ples.
Beraea nigrilla Banks, Type 11724 [L, cf. text].
Beraea pallida Mosely, P: Type 16453.
Beraea pullata (Curtis), *Thya*, ples.
Rhyacophila melas Pictet, C: Type 11090.
Rhyacophila barbata Pictet, C: Type 11091.
Bereodes minutus (Linnaeus), *Phryganea*.
Beraeodina palpalis Mosely, 3P: Type 16539.
Ernodes articularis (Pictet), *Rhyacophila*, C: Type 11089.
Ernodes nigroauratus Mosely, P: Type 16454.
Ernodes saltans Martynov.
Ernodes vicinus (McLachlan), *Beraea*, C: Type 11092.

HELICOPSYCHIDAE ULMER

- Ceylanopsyche waturagoda (Schmid), *Noleca*, det. Weaver.
 Cochliopsyche clara (Ulmer), *Tetanonema*, 2C: Type 11793.
 Helicopsyche borealis (Hagen), *Notidobia*, 4: Type 10939; L (Ross 1938); etoh, det. Flint.
Helicopsyche annulicornis Banks, Type 11695.
Helicopsyche californica Banks, 3: Type 11696; L (Ross 1938).
 Helicopsyche comosa Kingsolver.
 Helicopsyche falcigona Botosaneanu & Flint, P.
 Helicopsyche hageni Banks, M.C.Z. Type 22668; L (Flint 1967).
 Helicopsyche haitiensis Banks, M.C.Z. Type 22106, 4P; L (Flint 1967).
 Helicopsyche lutea (Hagen), *Notidobia*, 2: Type 10940; L (Flint 1967).
 Helicopsyche mexicana Banks, Type 11827.
Helicopsyche arizonensis Banks, 3: Type 11694; L (Ross 1938).
 Helicopsyche mulleri Banks, 7: Type 10906; L (Flint 1967).
 Helicopsyche peruana Banks, Type 10905.
 Helicopsyche ruprawathi Schmid, 2: M.C.Z. Paratype 29665.
 Helicopsyche sperata McLachlan.
 Helicopsyche umbonata Hagen.
 Helicopsyche zealandica Hudson.
Helicopsyche itona Mosely & Kimmins, det. Ross.

SERICOSTOMATIDAE STEPHENS

- Grumicha flavipes* (Ulmer), *Dicentropus*.
 Notidobia ciliaris (Linnaeus), *Phryganea*, 2: ples.
 Oecismus monedula (Hagen), *Sericostoma*, Type 10933.
 Olinga feredayi (McLachlan), *Olinx*, C: Type 10953, det. Tillyard.
 Pycnocentria evecta McLachlan, det. Tillyard.
 Pycnocentria funerea McLachlan, det. Tillyard.
 Pycnocentrodus aureolus (McLachlan), *Pycnocentria*, det. Tillyard.
 Schizopelex festiva (Rambur), *Sericostoma*.
 Schizopelex furcifera McLachlan, det. Mosely.
 Sericostoma carinthiacum McLachlan.
 Sericostoma clypeatum Hagen, 3: Type 10932.
 Sericostoma crassicornis (Walker), *Hydropsyche*.
 Sericostoma distinctum (Ulmer), *Notidobia*.
Schizopelex lobata Banks, 3: Type 11712; L (Ross 1938).
Psiloneura moesta Banks, 2: Type 11717; L (Ross 1938).
 Sericostoma flavicornis Schneider, Type 10931.
 Sericostoma galeatum Rambur, 2: Cotype M.C.Z. 22172.
Sericostoma laireillei Rambur, Cotype M.C.Z. 22173.
 Sericostoma griseolum (McLachlan), *Notidobia*, 3: Type 10934.
Notidobia assimilis Banks, 2: Type 11715; L (Ross 1938).
 Sericostoma griseum (Banks), *Agarodes*, Type 11716.
Notidobia americana Banks, 3: Type 11714; L (Ross 1938).
 Sericostoma hesperus (Banks), *Schizopelex*, Type 11713.
 Sericostoma indivisum McLachlan, Type 10929.
 Sericostoma maclachlanianum Costa.
 Sericostoma nigriculum (McLachlan), *Notidobia*.
Notidobia arizonica Banks, M.C.Z. Type 25891, 6P.
 Sericostoma pedemontanum McLachlan.
 Sericostoma personatum (Kirby & Spence), *Phryganea*.
Sericostoma multiguttatum Pictet, C: Type 10928.
 Sericostoma pyrenaicum Pictet, det. Mosely.
 Sericostoma selysii Pictet.
 Sericostoma siculum McLachlan.
 Sericostoma timidum Hagen, 5: Type 10930.
 Sericostoma turbatum McLachlan.
 Sericostoma vittatum Rambur, Cotype M.C.Z. 22174 [metathorax & abdomen absent].

CHATHAMIIDAE TILLYARD

- Philanisus plebeius* Walker, det. Tillyard.

CONOESUCIDAE ROSS

- Lingora plicata* Banks, 2P; [M.C.Z. Type 22076 & 2P in ANIC (Neboiss 1983)].

HELICOPHIDAE MOSELY

- Alloecella grisea* Banks, [M.C.Z. Type 22109 & P in ANIC (Neboiss 1983)].

TASIMIIDAE RIEK

- Tasimia atra* (Banks), *Molanniella*, [M.C.Z. Type 22108 in ANIC (Neboiss 1983)].

THE HARRIS COLLECTION

Thaddeus William Harris (1795-1856) was one of the pioneers of Entomology in the United States of America. He gave lectures on the study of insects at Harvard, c. 1937-1842, and maintained a collection of insects. This collection is of particular significance because in 1825 Harris shipped it to Thomas Say in Philadelphia to identify, and because virtually all of Say's insect collection has been destroyed, it provides the only means of verifying Say's species and determinations through the examination of specimens (Mallis 1971). Harris's collection was moved to the Boston Society of Natural History soon after his death. However, c. 1938, it was returned to Harvard where it presently resides in the Entomology Department of the MCZ and is kept in a double wooden cabinet, separate from the main collection (pers. comm. Furth).

The caddisflies in this collection were used by Hagen and others to identify the caddisflies described by Say and Harris. The Trichoptera are contained in two drawers and appear to be in the same state of curation as left by Hagen. A large heading-label, in Hagen's hand-writing, precedes the series of each species. This label bears Hagen's det. and a specific number, which corresponds with small labels on each specimen in the series. This number also corresponds to an unpublished catalogue by Harris, which provides further information on the collection localities and identifications. This numbering system was probably how Harris assigned det. labels to specimens. Harris's unpublished catalogue and Say's corresponding report are both kept with the collection at the MCZ (pers. comm. Furth). The heading-label also sometimes has another number which corresponds with Hagen's (1861) *Synopsis of the Neuroptera of North America*.

Unfortunately, the majority of the caddisflies in the collection are in very poor condition. All except three specimens are without abdomens, some are nothing more than wings, and some are actually nothing, having naked pins with labels.

Milne made a thorough study of the caddisflies in the Harris Collection, and most of the specimens bear his det. label. He also added several red "type" labels which are very confusing; all of these are invalid, i.e. status unpublished, and not listed below, except one, the type label for *Hallesus argus* Harris.

The list of Trichoptera in the Harris Collection below, follows the order of specimens in the collection, with Hagen's heading-label listed first, followed by information from locality labels of specimens in each series, and Milne's det. labels last. All names are in italics, but undescribed species names are in small type; all brackets are mine. I have not listed any new nomina nuda or new combinations of names observed in the collection.

1. "*Neuronia dossuaria* Say Harr. Cat. 102."
2♂: "102 ♂ NH", 1♀: "102 ♀ NH", "*Banksolia dossuaria* (Say) det. 1936 L.J. Milne".
2. "*Neuronia stygipes* Say Harr. Cat. 103." [Hagen nec Say]
1 spec: "103 NH", "... [*Oligostomis*] *ocelligera* (Wlk.) det. 1936 L.J. Milne".
3. "*Neuronia ocellifera* Walk. Hag. Syn. 252.7. Harr. Cat 88."
1 spec: "88 ♂", "*Psilostomis* sp. probably *postica* (Wlk.) det. 1936 L.J. Milne".
4. "*Neuronia postica* Walk. Hag. Syn. 251.h. Harr. Cat. 88."
1 spec: "88 ♂", "*Psilostomis ocellifera* (Wlk.) det. 1936 L.J. Milne"; 4 spec. "88 ♂", "*Psilostomis* sp. det. 1936 L.J. Milne".
5. "*Neuronia semifasciata* Say Harr. Cat. 89"
2 spec: "89 ♂", "89 ♀", "*Psilostomis* sp. det. 1936 L.J. Milne".
6. "*Limnophihus argenteornatus* Say Harr. Cat. 92." [Hagen nec Say]
2 spec: "92", "92 NH", "*Limnophihus ornatus* Bks. det. 1936 L.J. Milne".
7. "*Limnophihus subguttatus* Walk. Hag. Syn. 261.23 Harr. Cat. 93."
1 spec: "93 ♀", "*Limnophihus stigma indivisus* Wlk. det. 1936 L.J. Milne".

8. "*Limnophilus pudicus* Hag. Syn. 262.26 Harr. Cat. 97-98." 6 spec.: (3: "97"), "97 NH", "98", "98 NH", "*Anabolina submonilifer* (Wlk.) det. 1936 L.J.Milne".
9. "100", "105 NH" undetermined.
10. "*Limnophilus plaga* Walk. Hag. Syn. 263.28 Harr. Cat. 97." 1 spec: "97 NH", "*Limnophilus* sp. *moestus* Bks. det. 1936 L.J.Milne".
11. "*Hallesus hostis* Hag. syn 266.3 Harr. Cat. 91." 6 spec.: (4: "91 ♂"), "91 ♀", "91", "*Platycentropus indicans* (Wlk.) det. 1936 L.J.Milne".
12. "*Hallesus guttifer* Walk. Hag. Syn. 266.4 Harr. Cat. 90." 1 spec.: "90 ♀", "*Stenophylax* sp. det. 1936 L.J.Milne".
13. "*Hallesus argus* Harr. * Harr. Cat. 107." 1 spec.: "Type", "107 ♀ Maine", "Holotype No. 26482 *Hallesus argus* Harr. ♀", "*Astenophylax argus* (Harr.) ♀ det. 1936 L.J.Milne".
14. "*Hallesus vittatus* Harr. Harr. Cat. 108." [Hagen nec Harris] 1 spec.: "108 ♀ Maine", "*Platycentropus indistinctus* (Wlk.) det. 1936 L.J.Milne".
15. "*Platyphylax subfasiata* [Say] Hag. Syn. 269 Harr. Cat. 93." 1 spec.: "93 N.Y.", "*Stenophylax* sp. det. 1936 L.J.Milne".
16. "*Platyphylax coagulata* Say Harr. Cat. 94." [Hagen 1873, not described, Provancher nec Say] 2 spec: "94 ♂ NH", "94 ♂", "*Chilostigma difficile* (Wlk.), det. 1936 L.J.Milne"; 1 spec: "94", "*Chilostigma* sp. (Wlk.) det. 1936 L.J.Milne".
17. "*Platyphylax irroratus* F. Harr. Cat. 107." 2 spec: "101 Maine", "101 ♀ NH", "*Glyphopsyche irrorata* (Fab.) det. 1936 L.J.Milne".
18. "*Goniotauius* ... [n. nud.] Harr. Cat. 106." [This is probably the spec. Hagen referred to as "*Goniotauius* spec.", a possible synonym of *Phryganea quadrula* Harris 1835, not described.] 1 spec.: "106 NH", "*Limnephilus despectus* Wlk. det. 1936 L.J.Milne".
19. "*Radema* ... [n. nud.] Harr. Cat. 104." [This is probably the spec. Harris referred to as "*Phryganea undulata*" Harris 1835, not described.] 1 spec.: "101 NH", "*Neophylax concinnus* M'L. det. 1936 L.J.Milne".
20. "*Apatania nigra* Walk. Hag. Syn. 270.1 Harr. Cat. 109." 1 spec: "109 Maine" [with abdomen!], "*Apatania nigra* Wlk. det. 1936 L.J.Milne"; 1 spec: [naked pin] "*Apatania* sp. det. 1936 L.J.Milne".
21. "*Mormonia* ... [n. nud.] Harr. Cat. 110." 1 spec.: "110 Maine" [naked pin], "[n. nud.] det. 1936 L.J.Milne".
22. "*Hydropsyche morosa* Hag. Syn. 287.2 Harr. Cat. 96." 3 spec: "96 ♂", "96 ♀", "96", "*Hydropsyche* sp. det. 1936 L.J.Milne".
23. "*Polycentropus cinereus* ! Hag. Syn 293 Harr. Cat. 99." 1 spec: "99" [with abdomen!], "*Polycentropus confusus* Hag. det. 1936 L.J.Milne"; 1 spec: "99" [wings only], "*Polycentropus* sp. det. 1936 L.J.Milne".
24. "*Polycentropus* sp. Harr. Cat. 134." 1 spec: "134", "*Holocentropus flavus* Bks. det. 1936 L.J.Milne".
25. "*Chimarra aterrima* Hag. Syn. 297.1 Harr. Cat. 135." 1 spec.: "135", "*Chimarra* sp. det. 1936 L.J.Milne".
26. "*Macronema zebratum* Hag. Syn. 285.5 Harr. Cat 115." 3 spec.: "113 NH", "*Macronema zebratum* Hag. det. 1936 L.J.Milne".
27. "*Setodes exquisita* Walk. Hag. Syn. 280 Harr. Cat 116." 3 spec "116 Maine": 1 spec: "*Leptocella albida exquisita* (Wlk.) det. 1936 L.J.Milne"; 2 spec. "*Leptocella* sp. det. 1936 L.J.Milne".
28. "*Setodes ignita* Hag. Syn. 281 Harr. Cat. 115." 1 ♂ [with abdomen!]: "115", "*Triaenodes injusta* (Hag.) det. 1936 L.J.Milne".
29. "*Setodes micans* Hag. Syn 283.13 Harr. Cat. 114." 2 spec: "114", "*Oecetis inconspicua* (Wak.) det. 1936 L.J.Milne".
30. "*Leptocerus* spec. Harr. Cat 112." 1 spec: "112", "*Athripsodes* sp. ♂ det. 1936 L.J.Milne".
31. "*Leptocerus niger* L. Hag. Syn. 277.4 Harr. Cat. 147." [Stephens nec L.] 1 spec.: "147", "*Mystacides sepulchralis* (Wlk.) det. 1936 L.J.Milne".
32. "*Molanna cinerea* Hag. Syn. 246.2 Harr. Cat. 111." 1 spec.: "111 Maine", "*Molanna* sp. det. 1936 L.J.Milne".

ACKNOWLEDGMENTS

I am very grateful to Wayne K. Gall, Cleone T. Graham, John C. Morse, David E. Ruiter, Lynnette T. Warshaw, and especially Oliver S. Flint, Jr, for their assistance, in answering many of my inquiries regarding the Trichoptera at the MCZ. I thank John F. Burger for reviewing the manuscript, and David G. Furth for permission

to include his personal communications and the photograph of Banks in the text, and for his comments on the text. The support of the National Science Foundation (grant BSR-8907401) is gratefully acknowledged.

REFERENCES

- BARNARD P. C. 1984. Macronematine caddisflies of the genus *Amphipsyche* (Trichoptera: Hydropsychidae). Bull. British Mus. Nat. Hist. 48:71-130.
- BANKS N. 1913. Synopsis and descriptions of exotic Neuroptera. Trans. Amer. Ent. Soc. 39: 201-248.
- 1918. New neuropteroid insects. Bull. Mus. Comp. Zool., Harvard College, 62: 1-22.
- 1936. Notes on some Hydropsychidae. Psyche 43:126-130.
- 1943. Notes and descriptions of Nearctic Trichoptera. Bull. Mus. Comp. Zool. 92:341-369.
- CARPENTER, F. M. 1933. Trichoptera from the Mountains of North Carolina and Tennessee. Psyche 40:32-47.
- CARPENTER, F. M., AND J. P. DARLINGTON. 1954. Nathan Banks, a biographic sketch and list of publications. Psyche 61:81-110.
- FLINT, O. S., Jr. 1966. Notes on certain Nearctic Trichoptera in the Museum of Comparative Zoology. Proc. U.S. Natn. Mus. 118: 373-390.
- 1967. Studies of Neotropical Caddis Flies, V: Types of the species described by Banks and Hagen. Proc. U.S. Natn. Mus. 123:1-37, 1 pl.
- FERNALD, H. T. 1939. On type nomenclature. Entomol. Soc. Amer. 32:689-702.
- HAGEN, H. A. 1861. Synopsis of the Neuroptera of North America, with a list of the South American species. Smith. Misc. Collns. 347 p.
- MALICKY, H. 1977. Ein Beitrag zur Kenntnis der *Hydropsyche guttata* - Gruppe (Trichoptera, Hydropsychidae). Z. Arbgem. Ost. Ent. 29:28.
- MALLIS, A. 1971. American Entomologists. Rutgers Univ. Press. New Brunswick, New Jersey. 549 p.
- MILNE, L. J. 1931. Three new Canadian *Prophryganea*. (Phryganeidae, Trichoptera.) Can. Ent. 63:228-232.
- MOSELY, M. E. 1938. The Indian caddis flies (Trichoptera). pt. V. J. Bombay Soc. 40:486-496, 12 pls.
- MORSE, J. C. 1975. A phylogeny and revision of the caddisfly genus *Ceraclea* (Trichoptera, Leptoceridae). Contrib. Amer. Ent. Inst. 11(2):1-97.
- NEBOISS, A. 1983. Checklist and bibliography of the Australian caddis-flies (Trichoptera). Aust. Soc. Limn., Spec. Pub.5. 132 p.
- ROSS, H. H. 1938. Lectotypes of North American caddisflies in the Museum of Comparative Zoology. Psyche 45:1-61.
- 1952. Lectotypes of Hagen species belonging to certain families of Trichoptera. Psyche 59:31-36
- WEAVER, J. S., III. 1985. The Oriental Lepidostomatidae (Trichoptera) described by Banks and Hagen. Psyche 92: 237-254.
- 1988. A synopsis of the North American Lepidostomatidae (Trichoptera). Contrib. Amer. Ent. Inst. 24:1-141.
- WEBB, D. W. 1980. Primary insect types in the Illinois Natural History Survey Collection, exclusive of Collembola and Thysanoptera. Bull. Ill. Nat. Hist. Surv. 32:1-191.
- WIGGINS, G. B. 1956. A revision of the North American caddisfly genus *Banksiola* (Trichoptera: Phryganeidae). Cont. R. Ontario Mus. Div. Zool. Palaeont. 43:1-12.
- WIGGINS, G. B. and RICHARDSON. 1986. Revision of the *Onocosmoecus unicolor* group (Trichoptera: Limnephilidae, Dicosmoecinae). Psyche 93:187-216.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Braueria](#)

Jahr/Year: 1993

Band/Volume: [20](#)

Autor(en)/Author(s): Weaver III John S.

Artikel/Article: [The Trichoptera of the Museum of Comparative Zoology, Harvard University 33-50](#)