

Catalog and bibliography of Neotropical and Mexican Chironomidae

(Insecta, Diptera)

By Martin Spies and Friedrich Reiss

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A comprehensive inventory of Chironomidae from the Neotropical faunal region is provided, closing the last remaining gap in coverage of the world by similar treatments. The catalog contains 709 validly named species and 155 validly named genera in 10 subfamilies. The distribution of genus and species numbers among subfamilies is given, and compared to other world regions.

A detailed commentary on individual taxa explains taxonomic background, problems, and solutions proposed by the authors. Nomenclatural changes are made as follows. Replacement names: *Chironomus joni*, nom. nov. for *Chironomus jonmartini* Sublette & Sasa; *Cricotopus curranii*, nom. nov. for *Cricotopus insolitus* Curran; *Tanypus lenzi*, nom. nov. for *Pelopia marginata* Lenz. A lectotype is designated for the latter species. New generic placements: *Axarus ochros* (Walley in Curran), comb. nov.; *Cryptotendipes daktylos* (Walley in Curran), comb. nov.; *Phaenopsectra magellanica* (Edwards), comb. nov.; *Rheotanytarsus meridionalis* (Johannsen), comb. nov.; *Rheotanytarsus pela* (Roback), comb. nov.; *Tanytarsus breda* (Roback), comb. nov.; *Thienemanniuella costalis* (Edwards), comb. nov. Elevations to species level: *Tanypus elongatus* Kieffer, stat. nov. and *Tanypus transversalis* Kieffer, stat. nov. New synonymy: *Chironomus xanthus* Rempel is the senior synonym of both *Chironomus domizii* Paggi, syn. nov. and *Chironomus sancticaroli* Strixino & Strixino, syn. nov.

The correct name for the Palearctic type species of *Brillia* Kieffer is *Brillia bifida* (Kieffer), since *Chironomus modestus* Meigen, 1830, is a junior primary homonym of *Chironomus modestus* Say, 1823.

A complete bibliography is given, comprising all references known to the authors as containing information relevant to Neotropical Chironomidae.

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Resumen

Se presenta un inventario completo de los Chironomidae de la región zoogeográfica neotropical, cerrando así el último vacío mundial respecto a tratamientos similares. El catálogo contiene 709 especies con nombres válidos y 155 géneros válidos en 10 subfamilias. Se indica la distribución de números de especies y géneros en las subfamilias, la que se compara con otras partes del mundo.

Un comentario detallado sobre algunos taxa particulares explica el fondo taxonómico, los problemas y las soluciones propuestas por los autores. Cambios de nomenclatura han sido hechos como indica lo siguiente. Nombres de reemplazo: *Chironomus joni*, nom. nov. para *Chironomus jonmartini* Sublette & Sasa; *Cricotopus curranii*, nom. nov. para *Cricotopus insolitus* Curran; *Tanypus lenzi*, nom. nov. para *Pelopia marginata* Lenz. Para la última especie ha sido designado un lectotipo. Nuevas posiciones genéricas: *Axarus ochros*

(Walley em Curran), comb. nov.; *Cryptotendipes daktylos* (Walley em Curran), comb. nov.; *Phaenopsectra magellanica* (Edwards), comb. nov.; *Rheotanytarsus meridionalis* (Johannsen), comb. nov.; *Rheotanytarsus pela* (Roback), comb. nov.; *Tanytarsus breda* (Roback), comb. nov.; *Thienemanniella costalis* (Edwards), comb. nov. Elevaciones a nivel de especie: *Tanytarsus elongatus* Kieffer, stat. nov., y *Tanytarsus transversalis* Kieffer, stat. nov. Sinonimia nueva: *Chironomus xanthus* Rempel es el sinónimo más antiguo para las dos especies *Chironomus domizii* Paggi, syn. nov., y *Chironomus sancticaroli* Strixino & Strixino, syn. nov.

El nombre correcto para la especie paleártica tipo de *Brillia* Kieffer es *Brillia bifida* (Kieffer), porque *Chironomus modestus* Meigen, 1830, es un homónimo primario de *Chironomus modestus* Say, 1823.

Se da una bibliografía completa que presenta todas las referencias conocidas a los autores, que contienen informaciones relevantes para quironómidos neotropicales.

Resumo

Um inventário abrangente de Chironomidae da região faunística neotropical é apresentado preenchendo o último vazio em termos mundiais, tratando-se de trabalhos similares. O catálogo contém 709 espécies com nomes válidos em 155 gêneros com nomeação válida em 10 subfamílias. É dada a distribuição do número de gêneros e espécies nas subfamílias e comparada com outras regiões do mundo.

São feitos comentários detalhados sobre alguns taxa que explicam bases taxonômicas, problemas e soluções propostas pelos autores. São propostos novos nomes: *Chironomus joni*, nom. nov. para *Chironomus jonmartini* Sublette & Sasa; *Cricotopus curranii*, nom. nov. para *Cricotopus insolitus* Curran; *Tanytarsus lenzi*, nom. nov. para *Pelopop marginata* Lenz. O lectótipo é designado para a última espécie. São feitas novas combinações: *Axarus ochros* (Walley em Curran), comb. nov.; *Cryptotendipes daktylos* (Walley em Curran), comb. nov.; *Phaenopsectra magellanica* (Edwards), comb. nov.; *Rheotanytarsus meridionalis* (Johannsen), comb. nov.; *Rheotanytarsus pela* (Roback), comb. nov.; *Tanytarsus breda* (Roback), comb. nov.; *Thienemanniella costalis* (Edwards), comb. nov. São elevados a nível de espécie: *Tanytarsus elongatus* Kieffer, stat. nov., e *Tanytarsus transversalis* Kieffer, stat. nov. Novas sinonimias: *Chironomus xanthus* Rempel é sinônimo sênior de ambos *Chironomus domizii* Paggi, syn. nov., e *Chironomus sancticaroli* Strixino & Strixino, syn. nov.

O nome correto para a espécie-tipo paleártica do gênero *Brillia* Kieffer é *Brillia bifida* (Kieffer), porque *Chironomus modestus* Meigen, 1830, é um homônimo júnior primário de *Chironomus modestus* Say, 1823.

Uma lista bibliográfica completa é apresentada, contendo todas as referências conhecidas pelos autores com informações relevantes sobre Chironomidae neotropicais.

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1.1 Introduction

Motivation. Any research in taxonomy – as well as in disciplines depending on solid taxonomic foundations, such as ecology, phylogeny, and biogeography – requires at its beginning an up-to-date and comprehensive inventory of the available information on a relevant scale: at global, continental, or lower geographic levels.

For the Chironomidae, the Neotropical faunal region – comprising the Caribbean, Central and South America – until now was the last major part of the world, for which the above prerequisite had not been met. Ashe et al. (1987) provide numbers of genera and species by subfamily for six major biogeographic regions including the Neotropics, and give presence/absence records by genera, but presentation of data at the individual species level was beyond the scope of their work. Beginning in 1966, an attempt at taking stock of South American Diptera was made – edited by N. Papavero – resulting in separately published treatments of most families (e.g. Wirth 1974). However, this series has since ceased short of completion, and without a volume on the Chironomidae. The only continent-wide listing of species in this family was Hunter's (1900) "Catalogue of the Diptera of South America", but that appeared more than half a century before the first systematic, long-term studies began to reduce a knowledge deficit which, relative to other continents, had been growing for decades.

To close this gap, the present authors – building on a long-standing tradition of work at the Zoologische Staatssammlung which has resulted in voluminous collections of museum-quality specimen and reference materials – are here undertaking to provide the first modern-day inventory on Neotropical Chironomidae.

In the southern Americas especially, recent years have brought about increased interest and activities concerning this family of insects and its importance in aquatic ecology, water quality issues, biodiversity, etc. It is the hope of the authors that in all such fields the documentation presented here will serve at the same time as practical tool and reference guide, both aiding and stimulating further research.

Concept. Reliable knowledge of the chironomid fauna in the Neotropical region still has to be considered as comparatively poor (compare chapter 1.2). Hundreds of undiscovered species can be expected to exist, and most genera and higher categories will await revision for some time to come. When working with specimens in detail there is, therefore, still no substitute for direct encounters with the primary taxonomic literature.

Under these circumstances, and looking at the present work primarily as a gateway to those sources, we have felt it both necessary and justifiable to not include all types of data considered in comparable previous publications, in order to render the practical use of the present one as easy as possible. Specifically, Ashe's (1983) "A catalogue of chironomid genera and subgenera..." constitutes an easily accessible and indispensable recent reference to chironomid taxonomy at the genus-group level. Therefore, the present work, rather than repeating a large volume of such data, frequently refers the reader to Ashe (op. cit.), unless any part of the information given there requires emendation.

Scope. As reflected in the title, by including all information on the chironomid fauna of Mexico the area covered here has been extended beyond the previously drawn limits of the Neotropical region, creating a slight overlap with the current Nearctic catalog (Oliver et al. 1990, Oliver & Dillon 1994). Since the exact course of the regional boundary is not defined on a small scale, considering this country in its entirety avoids potentially erroneous exclusions and tedious attempts to exactly identify each reported Mexican study site and its proper biogeographic affinity.

The Bermuda Islands Chironomidae are not covered by the Nearctic catalog (op. cit.), and are also excluded here. See Woodley & Hilburn (1994) for a listing of relevant records.

In all other cases, the geographic scope of this study has been limited to match the boundaries established in the available treatments of neighboring regions (Afrotropical region = AF: Freeman & Cranston 1980; Antarctica and subantarctic islands = ANT: Evenhuis 1989; Australasia and Oceania = AU: Cranston & Martin 1989). In detail, this excludes the Florida Keys (see Nearctic catalog = NE: op. cit.), Easter Island and Sala y Gomez (see AU), as well as South Georgia and other subantarctic lands (see ANT). Included are (if records are available) all other island groups between the Eastern Pacific Ridge to the West of the Central and South American mainlands, and the Midatlantic Ridge to the East.

The first author is maintaining databases for all information relevant to the contents of this work. Updates to the catalog lists and bibliography are intended to be produced at intervals dependent on taxonomic turnover. Readers are kindly requested to report additions, errors, etc. to help improve future editions.

The taxonomic information (section 2) is divided into three sub-chapters: First, there is the main catalog containing those entries relating to records of named species. A second listing gives information on genera only known from the Neotropics through records of unnamed species. In the third chapter we offer a taxonomic commentary to explain historic background, problems, and our proposed solutions.

1.2 Results overview

1.2 Results overview

The presently known quantitative composition of the Neotropical chironomid fauna, and the respective contributions of each subfamily are given in table 1.

A comparison with table 3 of Ashe et al. (1987) shows that over the last decade the number of recorded genera has risen sharply (1987: 109 genera), and the species number has almost doubled (1987: 369 species). With worldwide total numbers of chironomid genera ranging around 307 (Ashe et al. 1987) to 355 (Ashe 1983), the present catalog contains just under 50 %. However, more than one third of the genera recognized here could not be identified with the highest degree of taxonomic certainty (table 1, columns 2+3). Similarly, nearly 15 % of the listed species had to be categorized as *nomina dubia*. On the other hand, the number of names placed in synonymy appears to be relatively low. All of these results are most likely the

Subfamilies	Genera				Species				
	with	without	dubia	sub-	certae	un-	dubiae	sub-	
	named	species		totals	sedis	placed		totals	
						valid		No.	%
Aphroteniinae	1	1	–	2	2	–	–	2	0.3
Buchonomyiinae	1	–	–	1	1	–	–	1	0.1
Chilenomyiinae	1	–	–	1	1	–	–	1	0.1
Chironominae	46	13	1	60	279	7	47	333	47.0
Diamesinae	6	–	–	6	13	–	–	13	1.8
Orthocladiinae	33	12	2	47	95	20	14	129	18.2
Podonominae	5	–	1	6	81	–	1	82	11.6
Prodiamesinae	–	2	–	2	–	–	–	–	–
Tanypodinae	15	11	–	26	74	15	17	106	15.0
Telmatogetoninae	3	–	–	3	12	–	–	12	2.0
subfam. unknown	–	–	1	1	–	7	23	30	4.2
Totals	111	39	5	155	558	49	102	709	

consequences of a later onset and historically low density of modern taxonomic endeavours in the Neotropics. They also point out the extents of progress in our knowledge of this fauna, both that recently made and those yet to be expected.

On the level of subfamilies, only the Chironominae, Orthocladiinae, and Tanypodinae have been affected by large-scale additions.

The Chironominae show by far the most dramatic additions, and are expected to continue gaining in similar fashion. The recently published revision of *Polypedilum* from the Amazon region (Bidawid & Fittkau 1996, Bidawid-Kafka 1996) has pushed the number of Neotropical species in that genus from 13 to 64, with the latter figure constituting more than 10 % of all indubitable species listed in this catalog. In terms of proportions of the total species number, the Chironominae have now reached the range of percentages with which they are represented in other world regions containing tropical areas.

Although absolute numbers of Neotropical Orthocladiinae taxa – as compared to 1987 levels – have increased considerably, the subfamily proportion has fallen to the lowest percentage computed for any region. The Podonominae, while also relatively losing points due to the large gains in Chironominae taxa, still remain at highest world levels, rivalled only by their Australasian relatives. The Tanypodinae, with an increase greater than 100 % of the 1987 species number, remain well within the percentage range set by the other continental faunas.

Interestingly, the subfamilies Aphroteniinae, Diamesinae, and Podonominae, for which Brundin (1966) provided detailed Neotropical treatments, have seen almost no changes over the thirty years following their revision. It is quite possible, then, that the recent changes in and present proportions of, for example, the Chironominae and Orthocladiinae are significantly influenced by the respective taxonomic attention the subfamilies have historically received, and not just by their representation in the fauna. More importantly, in the view of the present authors this “lasting value” of Brundin’s work clearly shows the most promising way toward a comprehensive taxonomy of Neotropical Chironomidae: genus group level revisions on a larger than local geographic scale, with specific attention to phylogenetic and zoogeographic issues.

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2.1 Main catalog

Classification. To reduce the number of individual lists to be surveyed when looking for particular taxa, the systematic categories used to sort entries have been restricted to subfamily, genus, species, and subspecies. Introducing further separations at the tribal and subgeneric levels would have spread the data to an unproductive number of different subheadings. Moreover, the subgeneric position of many species is uncertain at this time.

Where necessary within any category, the listing of all definitively placed entries is followed by additional subheadings in the order of decreasing taxonomic precision: 1. Unplaced valid taxa, 2. Nomina dubia, 3. Invalid names, 4. Unavailable names. Taxonomic status was evaluated according to the International Code of Zoological Nomenclature (ICZN 1985). Although it is never possible for everybody to agree 100 % with a large body of regulations such as the Code's, the cataloging of taxa for a major world region is not meaningful without an international standard. And the ICZN is at present the only generally recognized guideline available.

Under each subheading, items are given in alphabetical order of the respective first names appearing in the entries. For example, taxa placed under "Nomina dubia" at the subfamily level are not sequenced strictly by species, but first by their presently valid genus (and subgenus) names.

As the criterion to separate "unplaced valid" names and nomina dubia (validly published, but of uncertain usage) we employed the information available on the taxon's type material. If there is solid evidence from whatever source that comparison with such a specimen standard is possible, we feel that not even the lack of adequate published descriptions justifies placing the name in doubt. On the other hand, unless there is at least one correctly identified true autapomorphy, many chironomid descriptions examined for this catalog – including some rather detailed ones – would not establish unmistakable identity of a species if its type material was unavailable or incomplete.

Generally – in accordance with the scientific principle of reproducibility, one of the ideas behind the International Code – the authors wish to reemphasize the type concept as one of the major pillars of taxonomic work. As the reader may derive from the accompanying commentary (chapter 2.3), practically all the cases of major instability in chironomid nomenclature encountered in our study result from historic taxonomic actions taken without due examination of type specimens.

In any instances of conflict between different regulations of the Code we have favored nomenclatorial stability over other principles (e.g. priority).

The present chapter is concluded with a list of Neotropical taxa which at some time in the past were erroneously placed under Chironomidae, but have since been transferred to other families.

Entry format. As in the following example, each genus entry line with the name, author(s), date, and page number is, where applicable, followed by information on nomenclature, the type species, variant spellings, and generic synonyms.

Example: entry at the genus level

Genus *Genera* Author, 19xx: yy.

Repl. name for *Genus* Author, 18xx (preocc. by Author, 17xx). Type sp.: *G. neotropicus* Author, 18xx: yy (orig. des.). Incorr. subseq. spelling: "Gennera".

However – to avoid space-consuming repetitions – the reader is referred to the page number in Ashe's (1983) "A catalogue of chironomid genera and subgenera..." for all those data given there which do not require emendation. Only the names of generic synonyms actually used in the Neotropical literature are again recorded. Analogously, publications of originally extralimital genus descriptions without any Neotropical information have NOT been included in our reference list. Most such citations are also available in Ashe (1983).

A species entry (see example below) begins with the name in its correct spelling. The presently assigned genus name is only leading off this line, if the species has not been definitively placed. The subsequent information on author, date, and page number of the relevant publication is set within brackets if the species was originally established in a different genus. In such cases – after any necessary nomenclatorial notes (e.g. "comb. nov.") – the name of the original genus is attached in brackets, separated from the preceding data by a semicolon.

The use of brackets has been maintained not only for formal reasons, but because they can be helpful in data surveys such as name comparisons for homonyms, etc.

Example: entry at the species level
specificum (Author, 18xx: yy) [nec Author & Author, 19xx (jun. prim. homonym)]; (*Genus*). M, F, P. Type loc. not given; Country A (Island group), Country B, Other world regions. Jun. syn.: *Genus species* Author, 19xx: yy.

Next in each species entry, the life stages described in the original paper are given in the order in which they appeared there (for abbreviations see appendix, chapter 4.2). Then, the known distribution is listed as: present-day country harboring the type locality; further countries in alphabetical order, abbreviations for any other major biogeographic regions inhabited by the species.

Where necessary, the entry continues with information on variant spellings, and synonyms. Finally, if the taxonomic commentary (chapter 2.3) contains discussions pertinent to the species in question, a reference is indicated by the character sequence !C!, followed by the running number(s) of the relevant commentary item(s), for example: !C! 20.

Typographics. Typesettings in **boldface italics**, conveying the most prominent typographical status in this chapter, have been reserved exclusively for the individual catalog entry occurrences of those verified Neotropical taxa names, which are here considered both valid and of defined (not dubious) usage.

Additional quotes of such names (e.g. in type species information), as well as the names of junior synonyms, extralimital valid species, nomina dubia, and invalid but available names (junior homonyms) have been set in *regular italics*.

Unavailable names (nomina nuda, incorrect spellings) are shown as “normal typeface”, between quotation marks, to avoid their confusion with workable taxonomic entities.

Nomenclature. Spellings of species names have been changed as mandated by the ICZN, for example to match the gender of the associated genus name. However, some formally required changes may have been overlooked, because gender determinations are sometimes difficult, as are evaluations of adjectival status for species names.

Previous spellings prior to gender suffix changes made in this catalog are only specifically signalled in species entries where otherwise misunderstandings appeared likely (e.g. with *ruber* replacing *rubrum*, but not under *alaskense* for *alaskensis*).

Taxonomic references. Within each taxon entry, the first bibliographic information given relates to the publication to which the current name is credited. Where necessary, any additional works (e.g. a preceding one resulting in a nomen nudum) are mentioned either immediately attached (see above example: entry at the species level), or in a corresponding commentary item.

For citations of genus descriptions from extralimital material the reader is referred to Ashe (1983), and such titles are not included in the present bibliography.

In cases of authors with multiple name variations appearing in the literature (e.g. Strixino, S. T., and Trivinho Strixino, S.), each individual citation follows the name version used in the respective relevant publication. For additional explanations on the presentation of authors' names, as well as on publication dates, see the introduction to chapter 3.

Geographic data. Distributional records have been assigned to countries to the best of our knowledge regarding political boundaries as of 1996. The authors view these data merely as tools to answer scientific questions, with absolutely no political implications to be inferred.

With the exception of island (group) names no state, province, or regional listings have been included, in order to not overload entries with details.

The symbol + in front of a distributional listing signifies a previously unpublished record. The source of the new information is given in brackets immediately after the country name. Such data have been derived from material holdings at ZSM, from personal communications of colleagues, as well as from theses and other “grey” literature. Although the latter do not carry the power for taxonomic validity in the sense of the ICZN, the distributional information included in such works is here considered too important to be excluded.

©ZooKeys 2012. Distribution outside of the Neotropics as delimited for this catalog is indicated by abbreviations for other major regions (see list in appendix, chapter 4.2) at the end of each geographic listing. Data were mostly taken from current catalogs covering the world as follows: AF - Freeman & Cranston (1980); ANT - Evenhuis (1989); AU - Cranston & Martin (1989); NA - Oliver et al. (1990), Oliver & Dillon (1994); OR - Sublette & Sublette (1973); PA - Ashe & Cranston (1990). Holarctic distribution is represented by the abbreviation HA.

In entries showing an extralimital country as harboring the type locality, the geographic listing only includes the corresponding world region if the taxon has been reported from at least one more country inside that region. For example, since Mexico is being treated as entirely Neotropical, an entry "USA; Costa Rica, NA," indicates the species occurs in Canada as well.

Country listings preceded by a ? are tentative, resulting from doubtful identifications, from cases of older records not reexamined in recent revisionary studies, etc.

If a taxon has been erroneously reported to occur within the geographic limits of the present study, its name is listed in the catalog, but in regular italics typeface only (see above under "Typographics"), and with the distributional record "Not Neotropical".

Subfamily Aphroteniinae

Genus *Paraphrotenia* Brundin, 1966: 352

See Ashe (1983: 40).

excellens Brundin, 1966: 354. M, F, P. Argentina; Chile.

multispinosa Brundin, 1966: 356. P. Chile.

Subfamily Buchonomyiinae

Genus *Buchonomyia* Fittkau, 1955: 403.

See Ashe (1983: 13).

brundini Andersen & Sæther, 1995: 364. M. Costa Rica.

Subfamily Chilenomyiinae

Genus *Chilenomyia* Brundin, 1983a: 33.

See Ashe (1983: 16).

paradoxa Brundin, 1983a: 37. M, F. Chile.

Subfamily Chironominae

Genus *Aedokritus* Roback, 1958: 1

See Ashe (1983: 9).

penicilligerus (Edwards, 1931: 323); (*Chironomus*). M, F. Argentina; Peru. Jun. syn.: *Aedokritus varidis* Roback, 1958: 2. M, F. Peru.

platynemis (Edwards, 1931: 322); (*Chironomus*). M, F. Argentina.

pruinescens (Edwards, 1931: 324); (*Chironomus*). F. Argentina.

sartis Roback, 1960: 100. M, F. Brazil.

souzalopesi Oliveira & Messias, 1989: 405. M, F. Brazil.

Genus *Apedilum* Townes, 1945: 32.

Resurrected by Epler (1988a); see Ashe (1983: 10).

elachistum Townes, 1945: 33. M, F. USA; Brazil, +Costa Rica (ZSM), Guatemala, Mexico, Nicaragua, ?Uruguay.

subcinctum Townes, 1945: 33. Incorr. (var.) orig. spelling: "succinctum". M, F. USA; Guatemala, Mexico, NA.

Genus *Asheum* Sublette & Sublette, 1983: 34.

Repl. name for *Pedionomus* Sublette, 1964 (preocc. by Gould, 1840). See Ashe (1983: 11).

curticaudatum (Rempel, 1939: 214); (*Polypedilum*). M. Brazil.

Genus *Axarnus* Roback, 1980: 32.

Repl. name for *Anceus* Roback, 1963 (preocc. by Risso, 1816). See Ashe (1983: 12).

ochros (Walley in Curran, 1934: 306), comb. nov.; (*Chironomus*). M, F. Guyana.

rogersi Beck & Beck, 1958: 27. M, F. USA; Costa Rica, +Nicaragua (ZSM).

Genus *Beardius* Reiss & Sublette, 1985: 179.

Type sp.: *B. parvus* Reiss & Sublette, 1985: 183 (orig. des.).

aciculatus Andersen & Sæther, 1996: 40. M. Costa Rica; Mexico.

breviculus Reiss & Sublette, 1985: 189. M. Panamá. *lingulatus* Andersen & Sæther, 1996: 41. M. Costa Rica.

parvus Reiss & Sublette, 1985: 183. M, P, L. Venezuela; Brazil, Mexico.

triangulatus Andersen & Sæther, 1996: 43. M. Costa Rica.

Genus *Caladomyia* Säwedel, 1981: 124.

See Ashe (1983: 14).

adulberti Säwedel, 1981: 133. M. Brazil.

- castelnaui* Sæwedal, 1981: 138. M. Brazil.
humboldti Sæwedal, 1981: 141. M. Brazil.
kraussi Sæwedal, 1981: 139. M. Brazil.
mulleri Sæwedal, 1981: 136. M. Brazil.
ortoni Sæwedal, 1981: 131. M. Brazil.
pistra Sublette & Sasa, 1994: 54. M. Guatemala; NA.
poppigi Sæwedal, 1981: 135. M. Brazil.
spixi Sæwedal, 1981: 127. M, Pex. Brazil.
- Genus *Camposimyia* Reiss, 1981: 317.
 Repl. name for *Camposia* Reiss, 1972 (preocc. by Desmarest, 1823). See Ashe (1983: 14).
echinata (Reiss, 1972: 52); (*Camposia*). M, Pex. Chile.
- Genus *Chirocladius* Picado, 1913: 288.
 See Ashe (1983: 16).
pedipalpus Picado, 1913: 288. L, P. Costa Rica.
- Genus *Chironomus* Meigen, 1803: 260.
 See Ashe (1983: 16).
anonymus Williston, 1896: 274. M. St. Vincent; Costa Rica, Puerto Rico, NA.
antarcticus Walker, 1837: 332. M, F. Chile; ?Argentina. !C! 1.
atripennis Rempel, 1939: 213. M, F. Brazil. !C! 2.
atriramus Kieffer, 1925: 75. M. Argentina.
calligraphus Goeldi, 1905: 136. M, F. Brazil; ?Argentina, Colombia, Panamá, ?Virgin Islands (Brit. & U.S.), +NA (Spies et al.; in manuscr.). Jun. syn.: *Tendipes aversa* Roback, 1962: 6. M, F. Panamá. !C! 3.
columbiensis Wülker et al., 1989: 123. L, M. Colombia; Guatemala.
gigas Reiss, 1974a: 4. M, P, L. Brazil; Colombia.
joni, nom. nov. [for *Chironomus jonnartini* Sublette & Sasa, 1994: 32 (preocc. by Lindeberg in Lindeberg & Wiederholm, 1979)]. M, F. Guatemala.
latistylus Reiss, 1974a: 7. M, P, L. Brazil; Colombia.
nitidiventris Edwards, 1931: 320. M. Argentina.
paragigas Reiss, 1974a: 5. M, P, L. Brazil.
plumosus (Linnaeus, 1758: 587); (*Tipula*). A. Type loc. not given (PA); unspecified rec. of Oliver, Dillon & Cranston (1990: 42), HA.
rincon Sublette & Sasa, 1994: 33. M. Guatemala.
riparius Meigen, 1804: 13. M, F. Type loc. not given (PA); ?Argentina, ?Brit. Virgin Islands, HA. !C! 4.
stigmaterus Say, 1823: 15. M. USA; Mexico.
strenzkei Fittkau, 1968c: 240 (for multiple nomina nuda see !C! 5.). M, F, P, L, E. Brazil.
vittiventris Edwards, 1931: 312. M, F. Argentina; Uruguay.
wuelkeri Sublette & Sasa, 1994: 30 [nec *C. wulkeri* Philinkova & Belyanina, 1993: 119; see !C! 6.]. M, F. Guatemala.
xanthus Rempel, 1939: 212. M, F. Brazil; Argentina. Jun. synonyms: *Chironomus domizii* Paggi, 1977b: 103, nov. syn. (M, F, P, L. Argentina), and *Chironomus sancticaroli* Strixino & Strixino, 1981: 333, nov. syn. (M, F, P, L. Brazil). !C! 7.
- Nomina dubia in *Chironomus***
argentiniensis Kieffer, 1917: 353. M. Argentina.
attenuatus Walker, 1848: 20. F. Canada; ?Nicaragua, ?Virgin Islands (Brit. & U.S.), NA. !C! 8.
bonaerensis Lynch Arribálzaga, 1181a: Errata. Repl. name for *Chironomus proximus* Lynch Arribálzaga, 1881a: 88 (preocc. by Meigen, 1830). F. Argentina.
cordovensis Weyenbergh, 1886: 127. M, F. Argentina.
dorsalis auctores [nec Meigen, 1818 (misid.)]. Jun. syn.: *Chironomus viridicollis* v. d. Wulp, 1859: 161. HA; ?Argentina, ?Mexico. !C! 9.
fluminicola Weyenbergh, 1886: 127 [not Weyenbergh, 1873: 454, nor 1874: 53, nor 1882: 27 (name not made available; ICZN Article 12a)]. ?F. Argentina.
gualtemaltecus [sic!] Cockerell, 1915: 316. Incorr. subseq. spelling: "gualtematicus". F. Guatemala.
pallidiramus Kieffer, 1925: 74. M, F. Argentina.
petiolatus Kieffer, 1917: 351 ("var. *scutellaris*": p. 352). M, F. Paraguay; ?Argentina, Chile. !C! 10.
pilosidens Kieffer, 1921: 185. M. Paraguay.
redeuns Walker, 1856: 422. Incorr. subseq. spelling: "redenun". F. USA; Jamaica, Haiti, Puerto Rico, St. Croix, St. Vincent.
triornatus Weyenbergh, 1886: 128. A. Argentina.
- Genus *Cladopelma* Kieffer, 1921: 274.
 See Ashe (1983: 17).
forcipis (Rempel, 1939: 211); (*Chironomus* (*Cryptochironomus*)). M. Brazil; Colombia, Costa Rica, Guatemala, Mexico, Nicaragua, +Panamá (ZSM), NA. Jun. syn.: *Chironomus* (*Cryptochironomus*) *boydi* Beck, 1962: 91. M. USA.
- Genus *Cladotanytarsus* Kieffer, 1921: 277.
 See Ashe (1983: 17).
viridiventris (Malloch, 1915: 491); (*Tanytarsus*). M. USA; ?Mexico. !C! 11.
- Genus *Cryptochironomus* Kieffer, 1918: 46.
 See Ashe (1983: 19).
astax Roback, 1960: 97. M. Peru.
fulvus (Johannsen, 1905: 224); (*Chironomus*). P, F. USA; ?Nicaragua, NA. !C! 12.
- Genus *Cryptotendipes* Beck & Beck, 1969: 294 [not Lenz, 1941: 34 (name not made available; ICZN Article 13b)].
 See Ashe (1983: 19), but see !C! 13.
daktylos (Walley in Curran, 1934: 307), comb. nov.; (*Chironomus*). M. Guyana. !C! 14.

- Genus *Dicrotendipes* Kieffer, 1913: 23.
See Epler (1988b: 6). Jun. syn.: *Limnochironomus* Kieffer, 1920.
- aethiops* (Townes, 1945: 107); (*Tendipes* (*Limnochironomus*)). M, F, USA; Mexico. Jun. syn.: *Tendipes* (*Limnochironomus*) *figueroai* Vargas, 1952: 48. M. Mexico.
- alsinensis* (Paggi, 1975: 149); (*Chironomus* (*Dicrotendipes*)). M, P, L. Argentina.
- amazonicus* Epler, 1988b: 65. M, F. Brazil.
- baru* Epler, 1996b: 13. M. Costa Rica.
- californicus* (Johannsen, 1905: 217); (*Chironomus*). A. USA; Chile, Colombia, Costa Rica, Guatemala, Mexico, Panamá, Peru.
- crypticus* Epler, 1987a: 39. M, P, L. USA; ?Paraguay. !C! 15.
- dasyllabidus* Epler, 1988b: 67. M. Brazil.
- demissus* Epler, 1988b: 68. M, F. Brazil.
- embalsensis* Paggi, 1987: 703. M, P, L. Argentina; Chile. !C! 15.
- fittkaui* Epler, 1988b: 70. M, P. Brazil.
- lucifer* (Johannsen, 1907: 110); (*Chironomus*). M, F. USA; Guatemala, NA.
- modestus* (Say, 1823: 13); (*Chironomus*). M. USA; ?Guyana, HA. See !C! 33.
- neomodestus* (Malloch, 1915: 475); (*Chironomus*). M. USA; Mexico, NA.
- nestori* Paggi, 1978: 235. M, F, P, L. Argentina.
- obrienorum* Epler, 1987b: 148. M. Mexico.
- palearivillosus* Epler, 1988b: 72. M. Costa Rica.
- paradasyllabidus* Epler, 1988b: 73. M. Brazil.
- paterjohni* Epler, 1988b: 74. M. Brazil.
- pellegriniensis* Paggi, 1987: 695. M, P, L. Argentina.
- radinovskiyi* Epler, 1988b: 76. M. Brazil.
- reissi* Epler, 1988b: 76. M. Brazil.
- sinoposus* Epler, 1987b: 152. M. Mexico; Brazil, Colombia, +Costa Rica (ZSM), Dominica, +Nicaragua (ZSM).
- soccus* Epler, 1988b: 78. M, Pex. Brazil.
- villarricensis* Contreras-Lichtenberg, 1994: 591. M, F. Chile.
- Genus *Einfeldia* Kieffer, 1924: 393.
See Ashe (1983: 22).
- atitlanensis* Sublette & Sasa, 1994: 37. M, F. Guatemala.
- Genus *Endochironomus* Kieffer, 1918: 69.
See Ashe (1983: 22). !C! 16.
- subtendens* (Townes, 1945: 65); (*Tanytarsus* (*Endochironomus*)). M, F. USA; ?Mexico. !C! 16.
- Genus *Endotribelos* Grodhaus, 1987: 237.
Type sp.: *Tendipes* (*Tribelos*) *hesperius* Sublette, 1960: 217 (orig. des. and monotypy).
- albatum* Sublette & Sasa, 1994: 38. M, F, Pex. Guatemala.
- grodhausi* Sublette & Sasa, 1994: 39. M, F, P, Lex. Guatemala; Costa Rica.
- hesperium* (Sublette, 1960: 217); (*Tendipes* (*Tribelos*)). M, F. USA; Mexico.
- Genus *Fissimentum* Cranston & Nolte, 1996: 2.
Type sp.: *F. desiccatum* Cranston & Nolte, 1996: 9 (orig. des. and monotypy).
- desiccatum* Cranston & Nolte, 1996: 9. M, F, P, L. Brazil.
- Genus *Glyptotendipes* Kieffer, 1913: 255.
See Ashe (1983: 25).
- viridis* (Macquart, 1834: 52); (*Chironomus*). PA; Not Neotropical. See !C! 16.
- Genus *Goeldichironomus* Fittkau, 1965: 210.
See Ashe (1983: 25). Jun. syn.: *Siolimyia* Fittkau, 1968a.
- amazonicus* (Fittkau, 1968a: 260); (*Siolimyia*). M, F, Pex, Lex. Brazil; Bahamas, Mexico, Nicaragua, Panamá, Peru, Venezuela, Virgin Islands, NA.
- carus* (Townes, 1945: 118); (*Tendipes*). M, F. Venezuela; Colombia, Costa Rica, +Nicaragua (ZSM), Panamá, NA. Jun. syn.: *Goeldichironomus pseudopictus* Lichtenberg, 1979b: 93. M, F, ?Pex. Colombia.
- fluctuans* Reiss, 1974b: 105. M, P, L. Brazil; +Panamá (ZSM), St. Thomas, St. Vincent, NA.
- holoprasinus* (Goeldi, 1905: 135); (*Chironomus*). M, F. Brazil; Argentina, Costa Rica, Ecuador (Galápagos Islands), +Nicaragua (ZSM), Panamá, Peru, Virgin Islands (Brit. & U.S.), Venezuela, AU (Hawai'i), NA. Jun. syn.: *Chironomus fulvipilus* Rempel, 1939: 210. M. Brazil.
- maculatus* Trivinho Strixino & Strixino, 1991b: 594. M, F, P, L. Brazil.
- natans* Reiss, 1974b: 103. M, P, L. Brazil; ?Argentina.
- pictus* Reiss, 1974b: 86. M, P, L. Brazil; NA.
- serratus* Reiss, 1974b: 95. M, ?L. Brazil.
- xiborena* Reiss, 1974b: 100. M, P, L. Brazil.
- Genus *Lauterborniella* Thienemann & Bause in Bause, 1913: 120.
See Ashe (1983: 32).
- agrayloides* (Kieffer, 1911: 51); (*Tanytarsus*). F. Germany; +Panamá (ZSM), HA.

- Genus *Manoa* Fittkau, 1963: 373.
See Ashe (1983: 33).
obscura Fittkau, 1963: 374. M, F, P, L, T. Brazil.
- Genus *Megacentron* Freeman, 1961: 676.
See Ashe (1983: 34).
cuneicalcar (Edwards, 1931: 308); (*Pseudochironomus*). M. Argentina; +Chile (ZSM).
- Genus *Micropsectra* Kieffer, 1909: 50.
See Ashe (1983: 35).
atitlanensis Sublette & Sasa, 1994: 51. M. Guatemala.
- Genus *Neclamia* Sponis, 1987: 18.
Type sp.: *N. fittkai* Sponis, 1987: 19 (orig. des.).
bergeri Sponis, 1987: 21. M. Brazil.
fittkai Sponis, 1987: 19. M. Brazil.
- Genus *Nilodorum* Kieffer, 1921: 184.
See Ashe (1983: 36). !C! 17.
heterochirus Kieffer, 1921: 184. M. Paraguay. !C! 17.
- Genus *Nilothauma* Kieffer, 1920: 270.
See Ashe (1983: 37).
aleta Roback, 1960: 101. M. Peru.
duena Roback, 1960: 101. M. Peru.
- Genus *Nimbecera* Reiss, 1972: 54.
See Ashe (1983: 37).
saponica Reiss, 1972: 56. M, P, L. Chile; Argentina.
paulensis Trivinho-Strixino & Strixino, 1991a: 175. L. Brazil.
rhabdomantis Trivinho-Strixino & Strixino, 1991a: 173. L. Brazil.
- Genus *Oukuriella* Epler, 1986a: 157.
Type sp.: *O. albistyla* Epler, 1986a: 158 (orig. des.).
albistyla Epler, 1986a: 158. M. Uruguay; Brazil.
annamae Epler, 1996a: 4. M. Costa Rica.
costaricensis Epler, 1996a: 5. Incorr. orig. spelling: "costaricense" (ICZN Article 31b; *Oukuriella* explicitly proposed as female in gender). M. Costa Rica.
fasciata Epler, 1986a: 162. M. Brazil.
rushii Epler, 1996a: 8. M. Costa Rica.
simulatrix Epler, 1986a: 160. M. Colombia.
- Genus *Parachironomus* Lenz, 1921: 160.
See Ashe (1983: 39).
aberrans Spies, Fittkau & Reiss, 1994: 65. M. Venezuela.
apalai Spies, Fittkau & Reiss, 1994: 66. M. Brazil.
- atroari* Spies, Fittkau & Reiss, 1994: 68. M. Brazil.
camajura Spies, Fittkau & Reiss, 1994: 69. M. Colombia; Brazil.
cayapo Spies, Fittkau & Reiss, 1994: 70. M. Colombia; Brazil, Costa Rica, +Nicaragua (ZSM), Surinam.
directus (Dendy & Sublette, 1959: 514); (*Tendipes* (*Cryptochironomus*)). M. USA; +Mexico, +Nicaragua, +Panamá (all ZSM).
guarani Spies, Fittkau & Reiss, 1994: 72. M. Brazil; Bolivia, Paraguay.
manaos Spies, Fittkau & Reiss, 1994: 73. M. Brazil.
matapi Spies, Fittkau & Reiss, 1994: 74. M. Ecuador; Brazil.
mirim Spies, Fittkau & Reiss, 1994: 76. M. Brazil.
monochromus (v. d. Wulp, 1874: 129); (*Chironomus*). Repl. name for *Chironomus unicolor* v. d. Wulp, 1859: 162 (preocc. by Walker, 1848). M. Netherlands; +Mexico (ZSM), HA.
osa Spies, Fittkau & Reiss, 1994: 73. M. Costa Rica.
puberulus (Edwards, 1931: 321); (*Chironomus* (*Cryptochironomus*)). M. Argentina; Bolivia, Chile.
supparilis (Edwards, 1931: 313); (*Chironomus* (*Cryptochironomus*)). M. Argentina; Bolivia, Brazil, Chile, +Colombia, +Panamá (both ZSM), Paraguay, NA. Jun. syn.: *Parachironomus longistilus* Paggi, 1977: 200. M, F, P, L. Argentina. !C! 18.
ticuna Spies, Fittkau & Reiss, 1994: 85. M. Brazil.
tirio Spies, Fittkau & Reiss, 1994: 86. M, M intersex. Brazil.
vistosus Paggi, 1979: 47. M, F. Argentina.
waika Spies, Fittkau & Reiss, 1994: 90. M. Brazil.
yanomani Spies, Fittkau & Reiss, 1994: 91. M. Brazil; +Bolivia, +Nicaragua (both ZSM).
- Genus *Paralauterborniella* Lenz, 1941: 48.
See Ashe (1983: 40).
nigrohalteralis (Malloch, 1915: 440); (*Chironomus*). M, F. USA; Costa Rica, +Nicaragua (ZSM), HA.
- Genus *Paranilothauma* Sponis, 1987: 11.
Type sp.: *P. reissi* Sponis, 1987: 13 (orig. des. and monotypy).
reissi Sponis, 1987: 13. M, P. Brazil.
- Genus *Paratanytarsus* Thienemann & Bause in Bause, 1913: 120.
See Ashe (1983: 41).
grimmii (Schneider, 1885: 301); (*Chironomus*). L, P, F, E. Germany; +Argentina (ZSM), Chile, Peru, AU, HA.
tolucensis Reiss, 1972: 62. M. Mexico; NA.
- Nomen dubium** in *Paratanytarsus*
argentiniensis Kieffer, 1925: 82. M, F. Argentina.

- Genus *Pelomus* Reiss, 1990: 306.
 Type sp.: *P. notabilis* Reiss, 1990: 307 (orig. des.).
notabilis Reiss, 1990: 307. M, P. Brazil.
secundus Reiss, 1990: 309. Pex. Brazil.
tertius Reiss, 1990: 311. Pex. Brazil.
- Genus *Phaenopsectra* Kieffer, 1921: 274.
 See Ashe (1983: 42).
flavipes (Meigen, 1818: 50); (*Chironomus*). F. Type loc. not given; Argentina, Chile (incl. Juan Fernandez Islands), AF, HA.
magellanica (Edwards, 1931: 314), comb. nov.; (*Chironomus* (*Phaenopsectra*)). M. Chile.
- Genus *Polypedilum* Kieffer, 1912: 41.
 See Ashe (1983: 43).
amataura Bidawid-Kafka, 1996: 222. M. Brazil.
aparaí Bidawid & Fittkau, 1996: 508. M. Brazil.
apiaka Bidawid & Fittkau, 1996: 510. M. Brazil.
apicatum Townes, 1945: 39. M. USA; Costa Rica, Guatemala.
arara Bidawid & Fittkau, 1996: 512. M. Brazil.
aripuaná Bidawid-Kafka, 1996: 210. M. Brazil.
arua Bidawid-Kafka, 1996: 172. M. Brazil.
aruakan Bidawid & Fittkau, 1996: 494. M. Brazil.
asurini Bidawid-Kafka, 1996: 184. M. Brazil.
atroari Bidawid-Kafka, 1996: 190. M. Brazil.
bakairi Bidawid & Fittkau, 1996: 526. M. Brazil.
baníva Bidawid & Fittkau, 1996: 498. M. Brazil.
branquinho Bidawid-Kafka, 1996: 213. M. Brazil.
canoeiro Bidawid-Kafka, 1996: 183. M. Brazil.
carib Bidawid & Fittkau, 1996: 501. M. Brazil.
carijona Bidawid & Fittkau, 1996: 526. M. Brazil.
chiriguano Bidawid-Kafka, 1996: 178. M. Brazil.
clavistylus Sublette & Sasa, 1994: 45. M. Guatemala; +Nicaragua (ZSM).
cocama Bidawid-Kafka, 1996: 189. M. Brazil.
corniger Sublette & Sasa, 1994: 44. M, F, P, L. Guatemala.
epomis Sublette & Sasa, 1994: 46. M, F, Pex. Guatemala; Costa Rica.
feridae Bidawid-Kafka, 1996: 206. M. Brazil.
ge Bidawid & Fittkau, 1996: 482. M. Brazil.
guarani Bidawid-Kafka, 1996: 174. M. Brazil.
irapirapi Bidawid-Kafka, 1996: 218. M. Brazil.
jawaperi Bidawid & Fittkau, 1996: 523. M. Brazil.
juruna Bidawid-Kafka, 1996: 170. M. Brazil.
kajapo Bidawid & Fittkau, 1996: 485. M. Brazil.
kamajura Bidawid-Kafka, 1996: 169. M. Brazil.
karaja Bidawid-Kafka, 1996: 192. M. Brazil.
karyana Bidawid & Fittkau, 1996: 522. M. Brazil.
kaxuyana Bidawid & Fittkau, 1996: 504. M. Brazil.
kuikuro Bidawid & Fittkau, 1996: 514. M. Brazil.
luteopedis Sublette & Sasa, 1994: 48. M, F, Pex. Guatemala.
- marauia* Bidawid-Kafka, 1996: 220. M. Brazil.
mchinaku Bidawid & Fittkau, 1996: 490. M. Brazil.
microzoster Sublette & Sasa, 1994: 43. M, F, Pex. Guatemala; Costa Rica.
mundurucu Bidawid-Kafka, 1996: 180. M. Brazil.
uahukuwa Bidawid & Fittkau, 1996: 518. M. Brazil.
obelos Sublette & Sasa, 1994: 50. M, F. Guatemala; Costa Rica, +NA (in colls. M. Spies, J. E. Sublette).
okueima Bidawid-Kafka, 1996: 206. M. Brazil.
pardus Townes, 1945: 41. M. USA; Costa Rica, ?St. Vincent. See !C! 22.
paulusi Bidawid-Kafka, 1996: 208. M. Brazil.
pseudoconvictum Bidawid-Kafka, 1996: 194. M. Peru.
pterospilus Townes, 1945: 40. M, F. USA; Costa Rica, Panamá.
purus Bidawid-Kafka, 1996: 216. M. Brazil.
quinquesetosum (Edwards, 1931: 315); (*Chironomus* (*Polypedilum*)). M, F. Chile; Argentina.
seorsum (Skuse, 1889: 241); (*Chironomus*). Not Neotropical.
sabbuli Bidawid-Kafka, 1996: 200. M. Brazil.
salavoni Bidawid-Kafka, 1996: 198. M. Brazil.
salwiti Bidawid-Kafka, 1996: 202. M. Brazil.
solimoes Bidawid-Kafka, 1996: 228. M. Brazil.
tirio Bidawid & Fittkau, 1996: 502. M. Brazil.
titicacae Roback & Coffman, 1983: 61. M, F, Pex, L. Peru; Bolivia.
trombetas Bidawid-Kafka, 1996: 224. M. Brazil.
tupi Bidawid-Kafka, 1996: 166. M. Brazil.
txicao Bidawid & Fittkau, 1996: 518. M. Brazil.
umayo Roback & Coffman, 1983: 63. M, P, L. Peru.
villcanota Roback & Coffman, 1983: 59. M, P, L. Peru.
wayana Bidawid & Fittkau, 1996: 530. M. Brazil.
xamatari Bidawid & Fittkau, 1996: 480. M. Brazil.
xavante Bidawid & Fittkau, 1996: 486. M. Brazil.
xiborena Bidawid-Kafka, 1996: 226. M. Brazil.
yanomami Bidawid & Fittkau, 1996: 478. M. Brazil.
yavalapiti Bidawid & Fittkau, 1996: 494. M. Brazil.
- Nomina dubia in *Polypedilum***
argentinese Kieffer, 1925: 77. F. Argentina.
clavigerum Kieffer, 1925: 76. M, F. Argentina.
dimidiatum Kieffer, 1925: 77. M, F. Argentina.
hamigerum Kieffer, 1925: 78. M. Argentina.
- Genus *Pseudochironomus* Malloch, 1915: 500.
 See Ashe (1983: 45). Jun. syn.: *Proriethia* Kieffer, 1921.
viridis (Kieffer, 1925: 79); (*Proriethia*). M. Argentina; Peru.
- Nomen dubium in *Pseudochironomus***
fuscus Kieffer, 1925: 81); (*Proriethia*). M. Argentina.

Genus *Rheotanytarsus* Thienemann & Bause in Bause, 1913: 120.

See Ashe (1983: 47).

exiguus (Johannsen, 1905: 294); (*Tanytarsus*). L, P, M, F, T. USA; St. Croix, NA.

globosus Reiss, 1972: 64. M, P. Chile; Argentina.

hamatus Sublette & Sasa, 1994: 52. M, Pex. Guatemala.

lamellatus Reiss, 1972: 67. M. Chile.

meridionalis (Johannsen, 1938: 222), comb. nov.; (*Tanytarsus* (*Rheotanytarsus*)). M, F. Puerto Rico.

pela (Roback, 1960: 105), comb. nov.; (*Calopsectra*). M. Peru.

Nomen dubium in *Rheotanytarsus*

abbreviatus Kieffer, 1925: 81. Incorr. subseq. spelling: "abbreviatus". M. Argentina.

Genus *Riethia* Kieffer, 1917: 203.

See Ashe (1983: 48).

melanoides (Edwards, 1931: 310); (*Pseudochironomus*). M, F. Argentina.

truncatocaudata (Edwards, 1931: 309); (*Pseudochironomus*). M, F. Chile.

Genus *Skutzia* Reiss, 1985: 173.

Type sp.: *S. inopinata* Reiss, 1985: 174 (orig. des.).

bahiensis Reiss, 1985: 175. M. Brazil.

Genus *Stempellina* Thienemann & Bause in Bause, 1913: 120.

See Ashe (1983: 49).

curruui Säwedäl, 1984: 142. M. Brazil.

tarumai Säwedäl, 1984: 144. M, P, T, L. Brazil.

Genus *Stenochironomus* Kieffer, 1919: 44.

See Ashe (1983: 49).

aculeatus Borkent, 1984: 129. M. Brazil.

albidorsalis Borkent, 1984: 112. M, Pex. Brazil.

bacrioris Borkent, 1984: 105. M, Pex, Lex. Ecuador; Brazil.

crusanticus Borkent, 1984: 56. M, F, Pex, Lex. Ecuador; Costa Rica.

discus Borkent, 1984: 98. M. Venezuela.

fittkaui Borkent, 1984: 109. M. Brazil; +Panamá (ZSM).

gladius Borkent, 1984: 108. M, Pex, Lex. Costa Rica; +Panamá (ZSM).

impedens Borkent, 1984: 97. M. Brazil.

innocuus (Williston, 1896: 274); (*Chironomus*). Incorr. subseq. spelling: "innocuous". M. St. Vincent; Costa Rica.

jubatus Borkent, 1984: 116. M, F. Brazil.

leptopus Kieffer, 1906a: 19. Repl. name for *Chironomus longimanus* Williston, 1896: 274 (preocc. by Meigen, 1830). M. St. Vincent; Costa Rica, Dominica, Ecuador, Guatemala, Mexico.

licinus Borkent, 1984: 63. M. Brazil.

nudipupa Borkent, 1984: 117. M, F, P, Lex. Costa Rica; Ecuador, Venezuela.

palliaculeatus Borkent, 1984: 130. M. Brazil; Colombia.

pectinatus Borkent, 1984: 106. M, F. Brazil.

prolatus Borkent, 1984: 110. M. Brazil.

quadrinotatus Borkent, 1984: 114. M, F, P, Lex. Costa Rica; Ecuador, Panamá.

reissi Borkent, 1984: 128. M. Brazil.

semifumosus (Edwards, 1931: 321); (*Chironomus* (*Stenochironomus*)). M. Argentina.

townesi Borkent, 1984: 98. M. Venezuela.

triannulatus Borkent, 1984: 113. M, F. Brazil.

varius Borkent, 1984: 130. M, F. Venezuela.

vatus Borkent, 1984: 111. M, Pex. Brazil.

zonarius Borkent, 1984: 126. M. Brazil.

Nomen dubium in *Stenochironomus*

gracilivalva (Kieffer, 1917: 349); (*Chironomus*). M. Peru.

Genus *Tanytarsus* van der Wulp, 1874: 134.

See Ashe (1983: 51). Jun. syn.: *Calopsectra* Kieffer, 1909.

alatus Paggi, 1992: 302. M. Argentina.

branquini Fittkau & Reiss, 1973: 11. M. Brazil.

breda (Roback, 1960: 103), comb. nov.; (*Calopsectra*). M. Peru.

capitatus Sublette & Sasa, 1994: 54. M. Guatemala.

clivus Reiss, 1972: 69. M, P. Chile; Argentina.

cuicirensis Fittkau & Reiss, 1973: 14. M. Brazil.

curruui Fittkau & Reiss, 1973: 13. M. Brazil.

curvicristatus Contreras-Lichtenberg, 1988: 101. M. Colombia.

fastigatus Reiss, 1972: 75. M, P. Chile; Argentina.

hamatus Reiss, 1972: 73. M, Pex. Chile; Argentina.

hastatus Sublette & Sasa, 1994: 56. M, F, P. Guatemala; +Brazil (ZSM), +Mexico, +Venezuela (ZSM), +NA (in colls. M. Spies, J. E. Sublette, ZSM).

ligulatus Reiss, 1972: 81. M. Brazil.

pandus Sublette & Sasa, 1994: 56. M, F, P. Guatemala; Costa Rica.

paraligulatus Reiss, 1972: 82. M. Chile.

reissi Paggi, 1992: 299. M. Argentina.

rinihuensis Reiss, 1972: 85. M, ?Pex. Chile.

riopreto Fittkau & Reiss, 1973: 9. M. Brazil.

tuberculatus Reiss, 1972: 88. M, P. Chile.

Nomen dubium in *Tanytarsus*

oligotrichus Rempel, 1939: 213. M. Brazil. !C! 19.

Unavailable name combined with *Tanytarsus* "rothi" Brundin (1956b: 216) nomen nudum (ICZN Article 13a).

Genus *Townsia* Sublette, 1966: 20.

See Ashe (1983: 53).

subaberrans (Walley in Curran, 1934: 306); (*Chironomus*). M. Guyana.

Genus *Xenochironomus* Kieffer, 1921: 273.

See Ashe (1983: 54).

xenolabis Kieffer in Thienemann & Kieffer, 1916: 526. M. Sweden; +Panamá (ZSM), HA, OR.

Genus *Xestochironomus* Sublette & Wirth, 1972: 7. Repl. name for *Insulanus* Sublette, 1967 (preocc. by Fleutiaux, 1930).

See Ashe (1983: 55).

ankylis Sublette & Sasa, 1994: 51. M. Guatemala.

bulbosus Borkent, 1984: 27. M, F. Venezuela.

comptus Sublette & Wirth, 1972: 9. M, F. Jamaica; Costa Rica, Panamá.

dominicanus Sublette & Wirth, 1972: 10. M. Dominica; St. Vincent.

flinti Sublette & Wirth, 1972: 10. M, F. Dominica; St. Vincent.

furcatus (Johannsen, 1938: 221); (*Chironomus* (*Stenochironomus*)). M. Puerto Rico; Costa Rica. !C! 30.

gilvus Borkent, 1984: 27. M. Venezuela; Costa Rica.

dominicanus Sublette & Wirth, 1972: 13. M. Dominica; Jamaica.

latilobus Borkent, 1984: 29. M, F. Venezuela; +Costa Rica (ZSM).

luteifurcatus Sublette & Wirth, 1972: 14. M, F. Dominica; St. Vincent.

nebulosus Sublette & Wirth, 1972: 15. M. Puerto Rico; Costa Rica.

sубlettі Borkent, 1984: 25. M, F, P, L. USA; +Panamá (ZSM).

Genus *Zavreliella* Kieffer, 1920: 334.

See Ashe (1983: 55).

acuta Reiss, 1990: 96. M, Pex. Surinam; Brazil, Colombia.

branni Reiss, 1990: 101. M, P, Lex. Ecuador.

curta Reiss, 1990: 109. M. Brazil.

fittkani Reiss, 1990: 103. M, P, Lex. Brazil.

furcata Reiss, 1990: 104. M, P, L. Brazil.

junki Reiss, 1990: 97. M, Pex, ?L. Venezuela.

lata Reiss, 1990: 110. M. Brazil.

levis Reiss, 1990: 100. M, ?P, ?L. Brazil.

lobata Reiss, 1990: 107. M, Pex. Ecuador.

longiseta Reiss, 1990: 112. M. Brazil; +Costa Rica, +Panamá (both ZSM).

molesta Reiss, 1990: 108. M, Pex. Brazil.

verrucosa Reiss, 1990: 90. M, P, Lex. Brazil.

Unplaced valid species in Chironominae

Chironomus bulbosus Gerry, 1933: 97. M, F. Cuba; Puerto Rico.

Chironomus fulviventris Johannsen, 1905: 229. L, P, M, F. USA; Puerto Rico, NA. !C! 20.

Chironomus lugens Kieffer, 1906a: 19. Repl. name for *Chironomus lugubris* Williston, 1896: 274 (preocc. by Zetterstedt, 1850: 3490). M. St. Vincent. !C! 21.

Chironomus spiloapterus Williston, 1896: 273. M, F. St. Vincent. !C! 22.

Chironomus (Polypedilum) griseistriatum Edwards, 1931: 316. M. Argentina.

Chironomus (Stenochironomus) ancudensis Edwards, 1931: 313. F. Chile. !C! 23.

Parachironomus robustus Paggi, 1979: 50. M. Argentina. !C! 24.

Nomina dubia in Chironominae

Chironomus abjectus Kieffer, 1917: 354. F. Paraguay. *Chironomus antennalis* Kieffer, 1917: 355. F. Paraguay.

Chironomus boliviensis Kieffer, 1917: 353. F. Bolivia. *Chironomus brasiliensis* Wiedemann, 1828: 15. Incorr. subseq. spelling: "braziliensis". M, F. Uruguay; ?Argentina, ?Brazil, ?Paraguay. !C! 25.

Chironomus breviculva Kieffer, 1917: 351. M. Paraguay. !C! 25.

Chironomus chlorophilus Weyenbergh, 1886: 129. M. Argentina.

Chironomus curtipalpis Kieffer, 1917: 350. M. Paraguay.

Chironomus despectus Kieffer, 1917: 352. M. Paraguay. !C! 26.

Chironomus dorneri Malloch, 1915: 471. F. USA; ?Panamá. !C! 27.

Chironomus ferrugineus Macquart, 1838: 38. F. Brazil. *Chironomus fumeus* Walley in Curran, 1934: 307. M. Guyana. !C! 28.

Chironomus jamaicensis Gerry, 1933: 96. M, F. Jamaica.

Chironomus lindygii Schiner, 1868: 26. M. Colombia.

Chironomus loricator Kieffer, 1917: 349. M. Paraguay.

Chironomus macularis Weyenbergh, 1886: 128. M, F. Argentina.

Chironomus neofulvus Rempel, 1939: 211. M, F. Brazil.

Chironomus octopunctatus Loew, 1861: 33. M, F. Cuba. !C! 29.

Chironomus pectoralis Kieffer, 1917: 354. F. Paraguay.

Chironomus pseudofasciatus Gerry, 1932: 70. M, F. Jamaica.

- Chironomus trilobatus* Rempel, 1939: 209. M, F, Brazil.
- Chironomus trimaculatus* Macquart, 1838: 37. M, Brazil.
- Chironomus willistoni* Johannsen, 1905: 235. M, St. Vincent. !C! 30.
- Polypedilum clavatum* Kieffer, 1917: 356. M, Paraguay.
- Polypedilum simulator* Kieffer, 1925: 79. M, Argentina.
- Genus *Psilochironomus* Sublette, 1966: 19.
Compare Ashe (1983: 46), but see !C! 28.
- Tanytarsus tupungatensis* Brèthes, 1909: 87. M, Argentina.
- Tanytarsus virgo* Kieffer, 1917: 357 [nec Goetghebuer, 1934: 291 (jun. prim. homonym; PA)]. M, Bolivia.

Invalid name in Chironominae

- Chironomus quadripunctatus* Kieffer, 1917: 348 (pre-occ. by Malloch, 1915: 437). F, Paraguay. !C! 31.

Unavailable names combined with Chironominae

- Lenzia* "patagonica" Brundin (1956b: 216) nomen nudum (ICZN Article 13a).
- Genus "Lepidopodites" Brundin (1966: 428, 430) nomen nudum (ICZN Article 13b).

Subfamily Diamesinae

- Genus *Diamesa* Meigen in Gistel, 1835: 66.
See Ashe (1983: 20).
- mexicana* Serra-Tosio, 1977: 100. M, Mexico.
- reissi* Serra-Tosio, 1977: 99. M, Mexico.
- Genus *Heptagyia* Philippi, 1865: 635.
See Ashe (1983: 27). Incorr. subseq. spelling: "Heptagia". !C! 32.
- annulipes* Philippi, 1865: 635. F, Chile; ?Argentina.
Jun. syn.: *Chironomus lacteocinctus* Philippi, 1865: 600. M, Chile. !C! 32.
- Genus *Limaya* Brundin, 1966: 404.
See Ashe (1983: 32).
- longitarsis* Brundin, 1966: 405. M, F, P, L, Argentina; Chile.
- Genus *Mapucheptagyia* Willassen, 1995: 438.
Type sp.: *M. brundini* Willassen (orig. des. and monotypy).
- brundini* Willassen, 1995: 438. M, Pex, Chile.
- Genus *Paraheptagyia* Brundin, 1966: 379.
See Ashe (1983: 40).

- andina* Brundin, 1966: 386. (?M) intersex. F, Pex, Bolivia.
- cinerascens* (Edwards, 1931: 266); (*Heptagyia*). M, F, Argentina; Bolivia, Chile, Ecuador, Peru.
- nitescens* (Edwards, 1931: 267); (*Heptagyia*). M, Argentina; Chile.
- semiplumata* (Edwards, 1931: 267); (*Heptagyia*). M, F, Argentina; Chile.
- umbraculata* Brundin, 1966: 390. M, Chile.

- Genus *Reissia* Brundin, 1981: 120.
See Ashe (1983: 47). Objective syn.: *Araucania* Brundin, 1966 [nec Pate, 1947].
- antiqua* (Brundin, 1966: 400); (*Araucania*). M, F, P, Chile; Argentina.
- gelida* (Brundin, 1966: 402); (*Araucania*). M, F, P, Chile.
- valdesiana* (Brundin, 1966: 402); (*Araucania*). M, F, P, L, Chile.

Subfamily Orthocladiinae

- Genus *Ancylocladius* Sublette & Wirth, 1972: 5.
See Ashe (1983: 10).
- relicinus* Sublette & Wirth, 1972: 5. M, F, Jamaica.
- Genus *Antillocladius* Sæther, 1981: 4.
See Ashe (1983: 10).
- antecalvus* Sæther, 1981: 4. M, F, St. Vincent.
- pluspilalus* Sæther, 1982: 474. M, USA; +Nicaragua (ZSM).
- Genus *Austrocladius* Freeman, 1961: 647.
See Ashe (1983: 12).
- hamulatus* (Edwards, 1931: 288); (*Spaniotoma* (*Orthocladius*)). M, F, Chile; Argentina.
- heterogeneus* (Edwards, 1931: 289); (*Spaniotoma* (*Orthocladius*)). M, F, Argentina.
- hirtinervis* (Edwards, 1931: 286); (*Spaniotoma* (*Orthocladius*)). M, F, Argentina.
- obliquus* (Edwards, 1931: 289); (*Spaniotoma* (*Orthocladius*)). M, F, Argentina.
- Genus *Belgica* Jacobs, 1900: 106.
See Ashe (1983: 12).
- antarctica* Jacobs, 1900: 107. M, F, Not Neotropical.
- Genus *Bryophaenocladius* Thienemann, 1934: 36.
See Ashe (1983: 13). Jun. syn.: *Cantomyia* Roback, 1962.
- carus* (Roback, 1962: 5); (*Cantomyia*). M, F, Panamá.
- emarginatus* (Edwards, 1931: 297); (*Spaniotoma* (*Smititia*)). F, Argentina; Chile.
- fortispinatus* (Edwards, 1931: 296); (*Spaniotoma* (*Smititia*)). M, F, Argentina; Chile.

- Genus *Cardiocladius* Kieffer, 1912: 22.
See Ashe (1983: 15).
brasilensis Oliveira, 1949: 6. M, F. Brazil.
obscurus (Johannsen, 1903: 437); (*Thalassomyia*). M, F, L, P. USA; Puerto Rico, NA.
travassosi Oliveira, 1951: 133. M. Brazil; Peru.
- Genus *Chunio* Haliday, 1855: 62.
See Ashe (1983: 17).
brasilensis Oliveira, 1950c: 494. M. Brazil; Argentina, Chile (Juan Fernandez Islands), ?Puerto Rico. !C! 34.
fuscipennis Wirth, 1952: 99. M, F. Chile (Juan Fernandez Islands).
marshalli Stone & Wirth, 1947: 214. M, F. USA; Bahamas, Jamaica, Virgin Islands, NA (Bermuda Islands).
schmitti Stone & Wirth, 1947: 217. M. Ecuador (Galápagos Islands).
- Genus *Comptosmittia* Sæther, 1981: 20.
See Ashe (1983: 18).
dentispina Sæther, 1981: 20. M, F. St. Vincent.
- Genus *Corynoneura* Winnertz, 1846: 12.
See Ashe (1983: 19).
ferelobata Sublette & Sasa, 1994: 9. M, F. Pex. Guatemala.
hirvenojai Sublette & Sasa, 1994: 12. M, ?Pex. Guatemala.
scutellata Winnertz, 1846: 13. F. Germany; Argentina, AU, HA.
- Genus *Corytibacladius* Oliveira, Messias & Santos, 1995: 410.
Type sp. *C. gercinoi* Oliveira, Messias & Santos (orig. des. and monotypy).
gercinoi Oliveira, Messias & Santos, 1995: 410. M. Brazil.
- Genus *Cricotopus* v. d. Wulp, 1874: 132.
See Ashe (1983: 19).
aberrans Johannsen, 1938: 220. F. Puerto Rico.
argentinensis (Kieffer, 1925: 84); (*Trichocladius*). F. Argentina.
bicinctus (Meigen, 1818: 41); (*Chironomus*). F. Austria; Mexico, AF, AU (Hawai'i), HA.
canditibia Sæther, 1981: 11. M. St. Vincent.
cantus Roback, 1960: 92. F, M. Peru.
conformis Curran, 1928: 12. M. Cuba; Puerto Rico.
crassimanus (Kieffer, 1917: 362); (*Trichocladius*). F. Colombia.
currani, nom. nov. [for *Cricotopus insolitus* Curran, 1928: 11 (preocc. by Kieffer in Meunier, 1904)]. M, F. Puerto Rico.
- debilis* (Williston, 1896: 275); (*Orthocladius*). M. St. Vincent.
eleanatis Roback, 1960: 94. F. Peru.
lavaderos Sublette & Sasa, 1994: 13. M, F, P, L. Guatemala.
nalus Roback, 1960: 89. F, M. Peru.
nudisquamus Sæther, 1981: 12. M. St. Vincent.
oris Roback, 1962: 4. M. Panamá.
ornaticrus (Kieffer, 1925: 83); (*Trichocladius*). M. Argentina.
pilocapsulus Sæther, 1981: 6. M, F. Pex. St. Vincent.
rincon Sublette & Sasa, 1994: 16. M, F, P, L. Guatemala.
ruber Roback, 1960: 96. Incorr. orig. spelling: "rubrum" (ICZN Articles 31b, 32c(i)) F. Peru.
setis Roback, 1960: 93. F. Peru.
sylvestris (Fabricius, 1794: 252); (*Tipula*). A. Germany; Guatemala, Mexico, HA.
tanis Roback, 1962: 2. F, M. Panamá.
triannulatus (Macquart, 1826: 202); (*Chironomus*). A. France; Mexico, HA.
zuelis Roback, 1960: 93. F. Peru.
- Nomen dubium in *Cricotopus***
balteatus (Philippi, 1865: 600); (*Chironomus*). A. Chile, ?Argentina.
- Genus *Diplocladius* Kieffer in Kieffer & Thienemann, 1908: 6.
See Ashe (1983: 21).
cultriger Kieffer in Kieffer & Thienemann, 1908: 6. M, F. Germany; Nicaragua, HA.
- Genus *Diplosmittia* Sæther, 1981: 29.
See Ashe (1983: 21).
harrisoni Sæther, 1981: 30. M. St. Lucia; St. Vincent.
recisa Sæther, 1988: 45. M. Peru.
- Genus *Edwardsidia* Sæther, 1990: 315.
Type sp.: *Spaniotoma* (*Limnophyes*) *philhygra* Edwards (orig. des.).
candicans (Edwards, 1931: 293); (*Spaniotoma* (*Limnophyes*)). M. Chile; Argentina.
philhygra (Edwards, 1931: 292); (*Spaniotoma* (*Limnophyes*)). M. Argentina.
- Genus *Ichthyocladius* Fittkau, 1974: 92.
See Ashe (1983: 28).
neotropicus Fittkau, 1974: 101. F, phM, P, L. Peru; ?Brazil.
- Genus *Irisobrillia* Oliver, 1985: 1105.
Type sp.: *I. longicosta* Oliver (orig. des. and monotypy).
longicosta Oliver, 1985: 1109. M. Venezuela; Costa Rica, +Nicaragua (ZSM), St. Vincent.

- Genus *Linnophyes* Eaton, 1875: 60.
See Ashe (1983: 32).
- brachyarthra* (Edwards, 1931: 294); (*Spaniotoma* (*Linnophyes*)). M, F. Argentina; Chile.
- collaris* (Edwards, 1931: 295); (*Spaniotoma* (*Linnophyes*)). M, F. Argentina; Chile.
- griseatus* (Edwards, 1931: 296); (*Spaniotoma* (*Linnophyes*)). M. Argentina.
- guatemalensis* Sublette & Sasa, 1994: 19. M, F. Guatemala.
- mariae* Sublette & Sasa, 1994: 20. M, F. Guatemala.
- minimis* (Meigen, 1818: 47); (*Chironomus*). F. ?Germany; ?Chile (Juan Fernandez Islands), AF, AU, HA. Jun. syn.: *Linnophyes pusillus* Eaton, 1875: 60. F. Kerguelen Islands. !C! 35.
- subnudicollis* (Edwards, 1931: 309); (*Spaniotoma* (*Linnophyes*)). M. Argentina.
- Genus *Lipurometriocnemus* Sæther, 1981: 13.
See Ashe (1983: 33).
- glabialis* Sæther, 1981: 15. M, F. St. Vincent.
- Genus *Lopescladius* Oliveira, 1967: 417.
See Ashe (1983: 33). Includes "Cordites" Brundin (1966: 428) nomen nudum (ICZN Art. 13b).
- fittkaui* Sæther, 1983: 287. M, P. Brazil.
- minutissimus* Oliveira, 1967: 417. M, F. Brazil.
- verruculosus* Sæther, 1983: 289. M, P. Mexico; NA.
- Genus *Mesosmittia* Brundin, 1956a: 163.
See Ashe (1983: 34).
- truncata* Sæther, 1985: 51. M. Panamá.
- Genus *Metriocnemus* v. d. Wulp, 1874: 136.
- abdomino flavatus* Picado, 1913: 284. L, P, F, M. Costa Rica; NA.
- costatus* Sublette & Sasa, 1994: 22. M, F, P, L. Guatemala.
- fuscipes* (Meigen, 1818: 49); (*Chironomus*). Not Neotropical. See !C! 61.
- lautus* Sublette & Sasa, 1994: 24. M. Guatemala.
- picipes* (Meigen, 1818: 52); (*Chironomus*). Not Neotropical. See !C! 61.
- tropicus* Kieffer, 1917: 363. F. Paraguay.
- virgatus* Sublette & Sasa, 1994: 25. M, F, P, L. Guatemala.
- Genus *Nanocladius* Kieffer, 1913: 31.
See Ashe (1983: 36).
- bubbrachiatus* Epler, 1986b: 320. P, L. Honduras; +Belize (leg. W. L. Shepard, det. M. Spies).
- Genus *Parametriocnemus* Goetghebuer, 1932: 22.
See Ashe (1983: 40).
- lundbeckii* (Johannsen, 1905: 302); (*Metriocnemus*). Repl. name for *Chironomus nanus* Lundbeck, 1898: 285 (preocc. by Meigen, 1818). M, F. Greenland; Guatemala, St. Vincent, NA.
- Genus *Paraphaenocladus* Späreck & Thienemann, 1924: 223.
See Ashe (1983: 40).
- exagitans* [(Johannsen, 1905: 303); (*Metriocnemus*). M. USA] subspecies *longipes* Sæther & Wang, 1995: 52. M. Costa Rica; ?Bolivia, ?Guatemala, St. Vincent, Trinidad. !C! 36.
- Genus *Paratrissocladus* Zavrel, 1937: 10.
See Ashe (1983: 41).
- acuminatus* (Edwards, 1931: 274); (*Cardiocladius*). M. Chile.
- Genus *Petalocladus* Sublette & Wirth, 1972: 1.
See Ashe (1983: 42).
- setosus* Sublette & Wirth, 1972: 2. M, F. Jamaica.
- Genus *Physonera* Ferrington & Sæther, 1995: 58.
Type sp.: *Spaniotoma* (*Smittia*) *nigroflava* Edwards (orig. des.).
- minuscula* (Edwards, 1931: 301); (*Spaniotoma* (*Smittia*)). M. Chile.
- nigroflava* (Edwards, 1931: 300); (*Spaniotoma* (*Smittia*)). M. Argentina.
- Genus *Pseudosmittia* Edwards, 1932: 141.
Type sp.: *Spaniotoma* (*Smittia*) *angusta* Edwards (orig. des.). See !C! 37.
- antillaria* Sæther, 1981: 29. M. St. Vincent.
- bilobulata* (Edwards, 1931: 299); (*Spaniotoma* (*Smittia*)). M. Argentina.
- digitata* Sæther, 1981: 25. M, F. St. Lucia; St. Vincent.
- forcipata* (Goetghebuer, 1921: 87); (*Camptocladus*). M. Belgium; Guatemala, HA.
- neobilobulata* Paggi, 1993b: 172. M. Argentina.
- Genus *Rhinocladus* Edwards, 1931: 268.
See Ashe (1983: 48).
- culicinus* Edwards, 1931: 271. F. Argentina; Chile.
- longirostris* Edwards, 1931: 270. M, F. Chile.
- Genus *Smittia* Holmgren, 1869: 47.
See Ashe (1983: 49).
- pratorum* (Goetghebuer, 1927: 101); (*Camptocladus*). M. ?Argentina, ?Chile (Juan Fernandez Islands) [doubtful identifications], HA.
- windwardensis* Sæther, 1981: 23. M, F. St. Vincent; St. Lucia.

- Genus *Stictocladius* Edwards, 1931: 279.
See Ashe (1983: 50; as subgenus of *Diplocladius* Kieffer).
- calonotus* (Edwards, 1931: 282); (*Spaniotoma* (*Stictocladius*)). M, F. Argentina; Chile.
- flavozonatus* (Edwards, 1931: 281); (*Spaniotoma* (*Stictocladius*)). M, F. Argentina.
- pulchripennis* (Edwards, 1931: 280); (*Spaniotoma* (*Stictocladius*)). M, F. Argentina; Chile.
- Genus *Symbiocladius* Kieffer, 1925: 565.
See Ashe (1983: 50).
- wygodzinskiyi* Roback, 1965b: 115. F, phM, L, P. Argentina; Chile. !C! 38.
- Genus *Tempisquitoneura* Epler in Epler & De la Rosa, 1995: 50.
Type sp.: *T. merrillorum* Epler (orig. des. and monotypy).
- merrillorum* Epler, 1995: 56. M, F, P, L. Costa Rica.
- Genus *Thienemanniella* Kieffer, 1911: 201.
See Ashe (1983: 52).
- costalis* (Edwards, 1931: 302), comb. nov.; (*Corynoneura* (*Thienemanniella*)). M. Argentina.
- desertica* Paggi, 1985b: 49. M. Argentina.
- medialis* Sublette & Sasa, 1994: 28. M, F. Guatemala.
- semifimbriata* Sæther, 1981: 32. M, F, P, L. St. Vincent; Costa Rica, Guatemala.
- similis* (Malloch, 1915: 413); (*Corynoneura*). F. USA; Puerto Rico.
- spretta* (Roback, 1962: 2); (*Corynoneura* (*Thienemanniella*)). M. Panamá; Guatemala, St. Vincent. Jun. syn.: *Thienemanniella sanctivincenta* Sæther, 1981: 37. M, F, P, L. St. Vincent.
- Unplaced valid species in Orthocladiinae**
- Hydrobaenus* (Limnophyes) *fernandezensis* Wirth, 1952: 101. M, F. Chile (Juan Fernandez Islands). "Ljungneria" (nomen nudum) *patagonica* Brundin, 1963: 430. M. "mountain streams of the south Andes".
- Metriocnemus* *ancudensis* Edwards, 1931: 274. M. Chile. !C! 39.
- Metriocnemus* *aurantiacus* Edwards, 1931: 273. F. Chile.
- Metriocnemus* *fasciventris* Edwards, 1931: 319. M. Argentina.
- Metriocnemus* *griseovittatus* Edwards, 1931: 271. M. Argentina. !C! 40.
- Metriocnemus* *longicostalis* Edwards, 1931: 273. M. Chile. !C! 39.
- Metriocnemus* *subrostratus* Edwards, 1931: 272. F. Argentina.
- Spaniotoma* (*Eukiefferiella*) *claviculata* Edwards, 1931: 291. M, F. Argentina.
- Spaniotoma* (*Orthocladus*) *albitarsis* Edwards, 1931: 286. M. Argentina.
- Spaniotoma* (*Orthocladus*) *barilochensis* Edwards, 1931: 290. M. Argentina. !C! 41.
- Spaniotoma* (*Orthocladus*) *calomicra* Edwards, 1931: 285. F. Argentina.
- Spaniotoma* (*Orthocladus*) *eurycnemoides* Edwards, 1931: 284. F. Argentina.
- Spaniotoma* (*Orthocladus*) *patagonica* Edwards, 1931: 290. M, F. Argentina.
- Spaniotoma* (*Smittia*) *magellanica* Edwards, 1931: 298. F. Chile.
- Spaniotoma* (*Stictocladius*) *almeidai* Oliveira, 1946: 279. M, F. Brazil.
- Spaniotoma* (*Trichocladus*) *brachypus* Edwards, 1931: 279. F. Argentina.
- Spaniotoma* (*Trichocladus*) *lateralis* (Walker, 1837: 332) [nec *Chironomus lateralis* Goetghebuer, 1934: 94 (jun. prim. homonym; PA)]; (*Chironomus*). M. Chile; Argentina.
- Spaniotoma* (*Trichocladus*) *latiforceps* Edwards, 1931: 278. M. Chile; Argentina.
- Spaniotoma* (*Trichocladus*) *luteibasis* Edwards, 1931: 278. F. Argentina.
- Nomina dubia in Orthocladiinae**
- Camptocladius* *petiolatus* Kieffer, 1917: 358. F. Paraguay.
- Dactylocladius* *boliviensis* Kieffer, 1917: 361. F. Bolivia.
- Dactylocladius* *longipalpis* Kieffer, 1917: 360. M. Bolivia.
- Dactylocladius* *peruvianus* Kieffer, 1917: 360. M. Peru.
- Diplocladius* *ioergenseni* Kieffer, 1909: 328. Incorr. orig. spelling: "lörgenseni"; incorr. subseq. spellings: "jörgenseni", and "jorgenseni". M. Argentina.
- Metriocnemus* *argentinensis* Kieffer, 1925: 83. F. Argentina.
- Orthocladus* *chilensis* Kieffer, 1906b: 354. F. Chile.
- Orthocladus* *macrorhynchus* Kieffer, 1906b: 353. F. Chile.
- Orthocladus* *perpusillus* Enderlein, 1912: 106. F. Argentina.
- Orthocladus* (*Trichocladus*) *fissicornis* Kieffer, 1906b: 355 (subgeneric position on p. 356). M. Chile.
- Genus *Pseudhydrobaenus* Brèthes, 1912: 219.
See Ashe (1983: 45). Incorr. (var.) orig. spelling (ICZN Article 32c(iv)): "Pseudhydrobaenus".
- Pseudhydrobaenus* *porteri* Brèthes, 1912: 219. M. Chile.
- Genus *Spaniotoma* Philippi, 1865: 629.
See Ashe (1983: 49).
- Spaniotoma* *bivittata* Philippi, 1865: 629. F. Chile.
- Spaniotoma* *unicolor* Philippi, 1865: 629. F. Chile.

Unavailable names combined with *Orthocladinae*.
 Genus "Ljungneria" Brundin (1963: 430) nomen nudum (ICZN Article 13b).
 Genus "Tempesquitoneura" Epler & De la Rosa in Ferrington & Sæther (1995: 63) nomen nudum (ICZN Article 13a(i)).

Subfamily Podonominae

See !C! 44

Genus *Parochlus* Enderlein, 1912: 109.

See Ashe (1983: 41).

araucanus Brundin, 1966: 140 [not Brundin, 1963 (Name not made available; ICZN Article 13a)].
 M, F, P. Chile (incl. Juan Fernandez Islands); Argentina. !C! 42.

ayseni Brundin, 1966: 175. M, F. Chile; Argentina.
chiloensis Brundin, 1966: 130. M, F. Chile.

crassicornis Brundin, 1966: 153. phM, P. Chile; Argentina.

cristatus Brundin, 1966: 175. M. Argentina.

darwini Brundin, 1966: 172. M. Chile.

duseni Brundin, 1966: 129. M, F. Chile; Argentina.

fascipennis Brundin, 1966: 179. F. Chile.

fuegianus Enderlein, 1912: 109. F. Argentina.

grandilobus Brundin, 1966: 133. M. Chile.

incaicus Brundin, 1966: 140 [not Brundin, 1963 (Name not made available; ICZN Article 13a)].
 P. Bolivia; Peru.

kiefferi (Garrett, 1925: 8); (*Paratanypus*). Jun syn.:
Podonomus peregrinus Edwards, 1929: 296. Not Neotropical. See !C! 42.

montivagus Brundin, 1966: 165 [not Brundin, 1963 (Name not made available; ICZN Article 13a)].
 M, phF, P. Chile; Argentina.

nigrinus nigrinus (Edwards, 1931: 258); (*Podonomus*).
 M, F. Argentina; Chile (incl. Juan Fernandez Islands).

nigrinus peruvianus Brundin, 1966: 171. A, P. Peru; Bolivia.

pallidus Brundin, 1966: 133. M, F. Chile.

patagonicus Brundin, 1966: 140. P. Argentina.

pilosus (Bigot, 1891: 3); (*Tanypus*). F. Chile; ?Argentina.

selkirki (Wirth, 1952: 95); (*Podonomus*). M, F. Chile (Juan Fernandez Islands).

skottsbergi Brundin, 1966: 163. M. Chile.

spinipalpis Brundin, 1966: 137. M. Chile.

squamipalpis (Edwards, 1931: 258); (*Podonomus*). F. Argentina; Chile.

steinenii (Gercke, 1889: 153); (*Tanypus*). Incorr. orig. spelling: "Steinenii"; incorr. subseq. spellings: "Steineni", and "steineni". Not Neotropical. See !C! 43.

tricornis Brundin, 1966: 163. M. Chile.

trigonocerus Brundin, 1966: 148 [not Brundin, 1963 (Name not made available; ICZN Article 13a)].
 M, P. Chile; Argentina.

tubulicornis Brundin, 1966: 165. M, phF, P. Argentina; Chile.

villaricensis Brundin, 1966: 137. M. Chile.

wellingtoni Brundin, 1966: 176. M. Chile.

Genus *Podochlus* Brundin, 1966: 240.

See Ashe (1983: 43).

beschi Brundin, 1966: 253. M, F. Chile.

conjunctus Brundin, 1966: 261. M. Chile.

flexistylus Brundin, 1966: 265. M, Pex. Chile.

gracilistylus Brundin, 1966: 265. M. Chile.

longisetus Brundin, 1966: 262. M, F. Chile.

magellanicus Brundin, 1966: 254. M. Chile.

osornensis Brundin, 1966: 266. M. Chile.

parvilobus Brundin, 1966: 265. M. Chile.

paynensis Brundin, 1966: 254. M. Chile.

pusillus Brundin, 1966: 262. M, P. Chile.

robsoni Brundin, 1966: 262. M, P. Chile.

simplex (Edwards, 1931: 263); (*Podonomus*). M, F. Chile.

subantarcticus Brundin, 1966: 266. M. Chile.

tenuicornis Brundin, 1966: 260. M, P. Argentina; Chile.

valdesianus Brundin, 1966: 266. M. Chile.

Genus *Podonomopsis* Brundin, 1966: 272 [not Brundin, 1963 (Name not made available; ICZN Article 13a)]. Type sp.: *P. mutica* (Edwards, 1931: 262) (orig. des. of Brundin 1966).

andina Brundin, 1966: 282. M, F, P. Chile.

brevipalpis Brundin, 1966: 285. M, F, P. Chile; Argentina.

illicsi Brundin, 1966: 281. M, F, P, L. Peru.

mutica (Edwards, 1931: 262); (*Podonomus*). M. Argentina.

torrentium Brundin, 1966: 284. M, P. Chile.

Genus *Podonomus* Philippi, 1865: 601.

See Ashe (1983: 43), but compare !C! 44. Jun. syn. *Ochilus* Enderlein, 1912.

acutus Wirth, 1952: 98. M. Chile (Juan Fernandez Islands).

albinervis Edwards, 1931: 261. M, F, P. Argentina; Chile.

apolobambae Brundin, 1966: 230. M, F, P. Bolivia; Peru.

besti Brundin, 1966: 204. M, F, P. Argentina; Chile.

bipartitus Brundin, 1966: 206. M, P. Chile.

caranqui Roback, 1970: 150. M, F, P. Ecuador.

chilensis Brundin, 1966: 206. M, F, P. Chile.

decarthrus Edwards, 1931: 261. M, F. Argentina.

discistylus Wirth, 1952: 96. M, F. Chile (Juan Fernandez Islands).

edwardsi Brundin, 1966: 206 [not Brundin, 1956b: 220 (Name not made available; ICZN Article 13a)]. M. Chile.

fastigians Brundin, 1966: 228. M, F, P. Bolivia; Peru.
fittkaui Brundin, 1966: 223. M, F, P. Peru; Bolivia.
illiesi Brundin, 1966: 211. M, F, P. Chile.
inermis Brundin, 1966: 232. M, F, P. Chile; Argentina, ?Peru.

kuscheli Wirth, 1952: 95. M, F. Chile (Juan Fernandez Islands).

longispinus Brundin, 1966: 209. M. Peru; Bolivia.
maculatus Brundin, 1966: 238. M, F, P. Bolivia.
magellanicus Brundin, 1966: 208. M, P. Chile.
montanus Brundin, 1966: 216. M, F, P. Chile; Argentina.

nordenskoeldi Brundin, 1966: 234. M. Chile.
nudipennis Edwards, 1931: 262. M. Argentina; Chile.
orbiculatus Brundin, 1966: 224. P. Chile.

oreophilus Brundin, 1966: 219. phF, P. Chile.
parvicornis Brundin, 1966: 236. P. Bolivia.
paynensis Brundin, 1966: 234. M, F, P. Chile.
quito Roback, 1970: 157. M, F, P. Lex. Ecuador.
radonichi Brundin, 1966: 209. M, P. Chile.
regalis Brundin, 1966: 235. M, F, P. Bolivia; Peru, Ecuador.

reticulatus Brundin, 1966: 239. F, P. Chile.
rivulorum Brundin, 1966: 215. M, F, P. Chile; Argentina.

setosus Brundin, 1966: 232. M, F, P. Chile.
stigmaticus Philippi, 1865: 602. F. Chile (Type locality stated as forgotten). !C! 44.
uschuaiensis (Enderlein, 1912: 108); (*Ochlus*). F. Argentina. !C! 44.
valdesianus Brundin, 1966: 212. M. Chile.

Genus *Rheochilus* Brundin, 1966: 269.

See Ashe (1983: 47).

insignis Brundin, 1966: 269. M, F. Chile.
prolongatus Brundin, 1966: 271. M. Argentina.

Unplaced valid subspecies in Podonominae

Parochilus steinenii steinenii Brundin, 1966: 159. Incorr. orig. spelling: "steineni". M, F, P. Chile; Argentina. !C! 43.

Parochilus steinenii brevipennis Brundin, 1966: 162. M, F, P. Chile. !C! 43.

Nomina dubia in Podonominae

Genus *Paradiamesa* Brèthes, 1909: 86.

See Ashe (1983: 39).

Paradiamesa andina Brèthes, 1909: 86. F. Argentina.

Unavailable name combined with Podonominae

Genus "Podonomites" Brundin (1963: 428) nomen nudum (ICZN Article 13 a, b).

Subfamily Prodiamesinae

Genus *Monodiamesa* Kieffer, 1922: 287.

See Ashe (1983: 35).

bathryphila (Kieffer, 1918: 102); (*Prodiamesa*). Not Neotropical. !C! 45.

Unavailable name combined with *Monodiamesa* "chilensis" Brundin (1956b: 216) nomen nudum (ICZN Article 13a).

Genus *Prodiamesa* Kieffer, 1906a: 37.

See Ashe (1983: 44).

rufovitata Goetghebuer, 1932: 151. Not Neotropical. !C! 45.

Subfamily Tanypodinae

Genus *Ablabesmyia* Johannsen, 1905: 135.

See Ashe (1983: 9, 28). Sen. syn.: *Isoplastus* Skuse, 1889 (preocc. by Horn, 1880).

bianulata Paggi, 1988: 329. M, F. Argentina. !C! 46.
cinctipes (Johannsen, 1946: 271); (*Pentaneura*). M. USA; Bahamas, Belize, Guatemala, Mexico, St. Vincent.

costarricensis (Picado, 1913: 281); (*Isoplastus*). Incorr. subseq. spelling: "costaricensis". L, P, F. Costa Rica.

infumata (Edwards, 1931: 249); (*Pentaneura*). M. Chile; Argentina.

metica Roback, 1983: 239. M, ?F. Colombia.

monilis (Linnaeus, 1758: 587); (*Tipula*). A. "Europe"; ?Venezuela, HA, OR. !C! 47.

pelecnis (Walley, 1926: 64); (*Tanypus*). M, F. Canada; ?Puerto Rico, NA.

punctulata (Philippi, 1865: 599); (*Chironomus*). A. Chile; Argentina. !C! 48.

Genus *Alotanypus* Roback, 1971a: 95.

See Ashe (1983: 10).

venustus (Coquillett, 1902: 91); (*Tanypus*). USA. M. Costa Rica, Guatemala.

Genus *Clinotanypus* Kieffer, 1913: 157.

See Ashe (1983: 17).

brasiliensis Oliveira, 1953: 279. M. Brazil.

sallei Oliveira, 1953: 276. M. Brazil.

Genus *Coelotanypus* Kieffer, 1913: 154.

See Ashe (1983: 18).

amoenis Roback, 1963: 172. F. Brazil.

atus Roback, 1971a: 37. M, F. USA; Mexico, Puerto Rico.

cletis Roback, 1963: 174. Incorr. subseq. spelling: "cletic". M. Jamaica; Cuba.

- concinuus* (Coquillett, 1895: 308); (*Tanypus*). F. USA; Costa Rica, Mexico, +Nicaragua (ZSM), Puerto Rico.
- delponte* Edwards, 1931: 318. M. Argentina.
- dimorphus* Rempel, 1939: 215. Brazil.
- feris* Roback, 1963: 169. F. Surinam; Guyana.
- humeralis* (Loew, 1866: 3); (*Tanypus*). M, F. Cuba; Panamá.
- insulanus* Johannsen, 1938: 220. Incorr. subseq. spelling: "insulans". F. Puerto Rico.
- lobensis* Paggi, 1993a: 5. M, F, Pex, L. Argentina.
- naelis* Roback, 1963: 170. F. Surinam; Mexico, Panamá, NA.
- olmecus* Roback, 1965a: 33. M, F. Mexico; Nicaragua.
- ringueleti* Paggi, 1986: 139. M, F. Argentina.
- ruficollis* Edwards, 1931: 318. Incorr. subseq. spelling: "ruficolis". M, F. Argentina.
- scapularis* (Loew, 1866: 2); (*Tanypus*). Incorr. subseq. spelling: "scapulis". M, F. USA; ?Argentina, Mexico, +Nicaragua (ZSM), Panamá, ?Venezuela, NA.
- tibialis* Edwards in Lenz, 1939: 183. M, F. Brazil.
- toltecus* Roback, 1965a: 32. F. Mexico.
- tricolor* (Loew, 1861: 309); (*Tanypus*). F. USA; Costa Rica, Mexico.
- viridiventris* Edwards, 1931: 318. F. Argentina.
- Nomina dubia in *Coelotanypus***
- mendax* (Lynch Arribáizaga, 1893: 234); (*Tanypus*). M, F. Argentina; ?Chile.
- neotropicus* (Kieffer, 1917: 339); (*Clinotanypus*). F. Paraguay; ?Argentina. !C! 49.
- Genus *Djalmabatista* Fittkau, 1968b: 328.
See Ashe (1983: 21).
- amancii* Fittkau, 1968b: 344. M. Brazil.
- antonii* Fittkau, 1968b: 335. M, F, P. Brazil.
- dellomei* Fittkau, 1968b: 342. M. Brazil.
- director* Fittkau, 1968b: 332. M, P. Brazil.
- ivanyae* Fittkau, 1968b: 340. M. Brazil.
- lacustris* Paggi, 1984: 342. M, F, Pex, Lex. Argentina.
- pulchra* (Johannsen, 1908: 273); (*Protenthes*). F. USA; Brazil, ?Costa Rica, ?Guatemala, ?Mexico, Nicaragua, NA.
- travassosi* Carraro, Oliveira & Rego, 1992: 57. M, F. Brazil.
- Genus *Fittkauimyia* Karunakaran, 1969: 75.
See Ashe (1983: 24).
- crypta* Serrano & Nolte, 1996: 252. L, P, M, F. Brazil.
- Genus *Labrundinia* Fittkau, 1962: 372.
See Ashe (1983: 31).
- fera* Roback, 1987b: 218. M. Colombia.
- fosteri* Roback, 1987b: 218. M. Colombia.
- lirsuta* Roback, 1987b: 221. M. Colombia.
- maculata* Roback, 1971a: 278. M. USA; Mexico, Trinidad.
- meta* Roback, 1987b: 220. M. Colombia.
- opela* Roback, 1987b: 218. M. Colombia.
- parabecki* Roback, 1987b: 215. M. Colombia.
- pilosella* (Loew, 1866: 5); (*Tanypus*). F. USA; Mexico, Puerto Rico, NA.
- separata* (Edwards, 1931: 252); (*Pentaneura*). M, F. Argentina.
- tenata* Roback, 1987b: 214. M. Colombia.
- Genus *Larsia* Fittkau, 1962: 339.
See Ashe (1983: 31).
- fittkaui* Sublette & Sasa, 1994: 3. M, F, Pex. Guatemala; +Nicaragua (ZSM).
- pallesceus* (Edwards, 1931: 251); (*Pentaneura*). M, F. Argentina.
- planensis* (Johannsen, 1946: 284); (*Pentaneura*). M. USA; Guatemala, Mexico, NA.
- reissi* Sublette & Sasa, 1994: 4. M, F, Pex. Guatemala.
- Genus *Laurotanypus* Oliveira, Messias & Silva-Vasconcelos, 1992: 161.
Type sp.: *L. travassosi* Oliveira, Messias & Silva-Vasconcelos, 1992: 161 (orig. des. and monotypy).
- travassosi* Oliveira, Messias & Silva-Vasconcelos, 1992: 161. M, F. Brazil.
- Genus *Monopelopia* Roback, 1962: 394.
See Ashe (1983: 35).
- boliekae* Beck & Beck, 1966: 335. M, F, L, Pex. USA; Colombia, NA.
- Genus *Naclotanypus* Roback, 1982c: 135.
See Ashe (1983: 36).
- viridis* Roback, 1982c: 135. M. Colombia; +Surinam (ZSM).
- Genus *Paramerina* Fittkau, 1962: 317.
See Ashe (1983: 40).
- fasciata* Sublette & Sasa, 1994: 6. M, F, Pex, Lex. Guatemala.
- smithae* (Sublette, 1964: 100); (*Pentaneura*). M. USA; Mexico.
- Genus *Pentaneura* Philippi, 1865: 629.
(Includes subgenus *Hudsonimyia* Roback, 1971: 1; see Sublette and Sasa 1994: 8).
See Ashe (1983: 41 and 28), but see !C! 50.
- cinerea* (Philippi, 1865: 601); (*Chironomus*). M. Chile; Argentina. Jun. syn.: *Pentaneura grisea* Philippi, 1865: 630. F. Chile. !C! 50.
- elisa* Fittkau, 1962: 369. F, P. Chile.

inconspicua (Malloch, 1915: 371); (*Tanypus*). M, F. USA; Mexico, NA.

indecis (Williston, 1896: 276); (*Tanypus*). M, F. St. Vincent; NA.

vittaria Sublette & Sasa, 1994: 8. M, Pex. Guatemala.

Genus *Procladius* Skuse, 1889: 283.

See Ashe (1983: 44).

bellus (Loew, 1866: 4); (*Tanypus*). A. USA; Mexico, NA.

culiciformis (Linnaeus, 1767: 978); (*Tipula*). A. Sweden; Mexico, NA, PA. Jun. syn.: *Protenthes claripennis* Malloch, 1915: 387. M, F. USA.

etatus Roback, 1982b: 124. M. Colombia; Costa Rica.

mozambique Roback, 1982b: 124. M, F. Colombia.

stroudi Roback, 1982b: 122. M, F. Colombia.

Genus *Tanypus* Meigen, 1803: 260.

See Ashe (1983: 51). Sen. syn. (suppressed by ICZN): *Pelopia* Meigen, 1800.

catemaco (Roback, 1964a: 141); (*Pelopia*). M. Mexico.

lauroi Serpa-Filho & Oliveira, 1992: 259. M. Brazil.

lenzi, nom. nov. [for *Pelopia marginata* Lenz, 1950: 503 (preocc. by Kieffer, 1918a)]. L, P. Brazil. !C! 51.

neopunctipennis Sublette, 1964: 118. M, F. USA; Bahamas, Mexico.

punctipennis Meigen, 1818: 61. A. Type loc. not given; ?Argentina, ?Brazil, ?Chile, PA, NA, OR. Jun. syn.: *Chironomus pictipennis* Philippi, 1865: 599. A. Chile. !C! 52.

stellatus Coquillett, 1902: 89. F. USA; Brazil, Nicaragua, NA.

Unplaced valid species in Tanypodinae

Anatopynia apicina Edwards, 1931: 240. M, F. Argentina; Chile. !C! 53.

Anatopynia brunea Edwards, 1931: 244. M. Chile. !C! 53.

Anatopynia confluens Edwards, 1931: 246. M. Argentina. !C! 53.

Anatopynia dizona Edwards, 1931: 246. F. Argentina; Chile. !C! 53.

Anatopynia fuegiana Edwards, 1931: 243. M. Chile. !C! 53.

Anatopynia pallescens Edwards, 1931: 245. M, F. Argentina; Chile. !C! 53.

Anatopynia trizona Edwards, 1931: 247. F. Chile. !C! 53.

Anatopynia vittigera Edwards, 1931: 242. M, F. Argentina; Chile (incl. Juan Fernandez Islands). !C! 53.

Anatopynia xanthina Edwards, 1931: 245. F. Argentina. !C! 53.

Anatopynia (*Macropelopia*) *colombiana* Rempel, 1937: 414. M, F, P. Colombia.

Macropelopia roblesi Vargas, 1946: 80. M, F. Mexico.

Pentaneura marmorata Johannsen, 1938: 219. F. Puerto Rico; Mexico.

Tanypus brooksi Gerry, 1933: 94. M. Jamaica.

Tanypus flaveolus Williston, 1896: 275. M. St. Vincent; ?Puerto Rico.

Tanypus pubicornis (Fabricius, 1805: 43); (*Chironomus*). M. "South America"; ?Argentina. !C! 54.

Nomina dubia in Tanypodinae

Macropelopia bellipes Kieffer, 1925: 90. M. Argentina.

Procladius brevipalpis Kieffer, 1921: 182. M. Paraguay.

Tanypus bicoloripennis Kieffer, 1917: 335. F. Paraguay.

Tanypus bruchi Kieffer, 1925: 85. M. Argentina.

Tanypus cirratus Kieffer, 1925: 88. M. Argentina.

Tanypus crassistylus Kieffer, 1925: 90. M. Argentina.

Tanypus elongatus Kieffer, 1925: 85 (stat. nov.; see !C! 55.). M. Argentina.

Tanypus excavatus Kieffer, 1925: 89. M. Argentina.

Tanypus fiebrigi Kieffer, 1917: 336. F. Paraguay.

Tanypus fraterculus Lynch Arribálzaga, 1893: 233. M, F. Argentina. !C! 56.

Tanypus myrmecodon Kieffer, 1917: 338. M. Paraguay.

Tanypus neotropicus Kieffer, 1917: 336. F. Paraguay.

Tanypus pelargus Kieffer, 1917: 337. M. Paraguay.

Tanypus tenuistylus Kieffer, 1925: 88. M. Argentina.

Tanypus transversalis Kieffer, 1925: 86 (stat. nov.; see !C! 55.). M. Argentina.

Invalid name in Tanypodinae

Tanypus griseipennis Kieffer, 1917: 338 (preocc. by v. d. Wulp, 1859). F. Paraguay. !C! 57.

Subfamily Telmatogetoninae

Genus *Halirytus* Eaton, 1875: 60.

See Ashe (1983: 26). Jun. syn.: *Jacobsiella* Rübsaamen, 1906.

magellanicus (Jacobs, 1900: 107); (*Belgica*). M. Chile; ANT.

Genus *Telmatogeton* Schiner, 1866: 931.

See Ashe (1983: 51). Incorr. subseq. spelling: "Telmatogeton".

alaskense Coquillett, 1900a: 395. M. USA; Mexico, NA.

atlanticum Oliveira, 1950a: 470. M. Brazil.

latipennis Wirth, 1949: 172. M, F. Mexico (Revillagigedo Islands).

nanum Oliveira, 1950a: 472. M, F. Brazil.

simplicipes Edwards, 1931: 307. M. Chile.

trochanteratum Edwards, 1931: 305. M, F. Chile.

- Genus *Thalassomyia* Schiner, 1856: 218.
See Ashe (1983: 52). Incorr. subseq. spelling:
"Thalassomyia". Jun. syn.: *Galapagomyia* John-
son, 1924.
- bureni* Wirth, 1949: 167. M, F. USA; Mexico, "to
Panamá and the West Indies" (Wirth 1969).
cocosensis Hashimoto, 1979: 272. M, F. Costa Rica
(Cocos Island).
frauenfeldi Schiner, 1856: 218. F. Italy; ?Uruguay,
PA. !C! 58.
- longipes* (Johnson, 1924: 86); (*Galapagomyia*). M, F.
Ecuador (Galápagos Islands); Mexico (Tres
Marias Islands).
pilipes Edwards, 1928: 60. M, F. U.S. Samoa; Ecua-
dor (Galápagos Islands), Mexico, AU, NA, OR.
!C! 59.

Subfamily status unknown

Unplaced valid species in Chironomidae

- Chironomus articuliferus* Blanchard, 1852: 336. A.
Chile. !C! 60.
- Chironomus carbo* Philippi, 1865: 600. M. Chile. !C! 61.
- Chironomus maculatus* Fabricius, 1805: 40. M. "South
America". !C! 62.
- Chironomus maculosipennis* Kieffer, 1906a: 19. Repl.
name for *Chironomus maculipennis* Blanchard,
1852: 335 (preocc. by Meigen, 1818). A. Chile.
!C! 60.
- Chironomus obscurellus* Blanchard, 1852: 336. A.
Chile. !C! 60.
- Chironomus pallidulus* Blanchard, 1852: 335. A. Chile.
!C! 60.
- Chironomus tessellatus* Blanchard, 1852: 336. A.
Chile. !C! 60.

Nomina dubia in Chironomidae

- Burmeisteria photophila* Weyenbergh, 1886: 130. M.
Argentina. !C! 63.
- Camptocladius nigripictus* Bigot, 1891: 2. M. Chile.
- Chironomus baraderensis* Lynch Arribálzaga, 1893:
244. F. Argentina.
- Chironomus confusus* Lynch Arribálzaga, 1893: 257.
Incorr. subseq. spellings: "confusus", "confus-
sus". M. Argentina.
- Chironomus delicatulus* Philippi, 1865: 600. A. Chile.
- Chironomus eburneocinctus* Philippi, 1865: 599. F.
Chile. !C! 32.
- Chironomus hircus* Weyenbergh, 1886: 129. ?F. Ar-
gentina.
- Chironomus holochlorus* Philippi, 1865: 600. A. Chile.

- Chironomus innocens* Weyenbergh, 1886: 130. ?M.
Argentina.
- Chironomus insignis* Wiedemann, 1828: 547. F. Bra-
zil.
- Chironomus lepidellus* Kieffer, 1906a: 19. Repl. name
for *Chironomus lepidus* Weyenbergh, 1886: 130
(preocc. by Meigen, 1830). ?F. Chile.
- Chironomus melas* Philippi, 1865: 600. A. Chile.
- Chironomus nocturnus* Lynch Arribálzaga, 1893: 248.
M. Argentina.
- Chironomus pica* Philippi, 1865: 600. A. Chile.
- Chironomus platensis* Lynch Arribálzaga, 1893: 255.
M. Argentina.
- Chironomus sanus* Weyenbergh, 1886: 129. ?F. Ar-
gentina.
- Chironomus severus* Weyenbergh, 1886: 130. ?F. Ar-
gentina.
- Chironomus tutulifer* Weyenbergh, 1886: 130. Incorr.
subseq. spelling: "tubulifer". A. Argentina.
- Chironomus villosus* Bigot, 1891: 3. M, F. Chile.

Invalid names in Chironomidae

- Genus *Burmeisteria* Weyenbergh, 1886: 130 (preocc.
by Gray, 1865, and by Salter, 1865). !C! 63.
- Chironomus atomarius* Lynch Arribálzaga, 1893: 248
(preocc. by Zetterstedt, 1850). F. Argentina.
!C! 64.
- Chironomus debilis* Lynch Arribálzaga, 1893: 256 (pre-
occ. by Meigen, 1830). F. Argentina. !C! 64.
- Chironomus obscuripennis* Lynch Arribálzaga, 1893:
243 (preocc. by Holmgren, 1869). F. Argentina.
!C! 64.

Taxa removed from Chironomidae

- Genus *Cotocripus* Brèthes, 1912: 451. Jun. syn. of
Culicoides (*Oecacta*) in Family Ceratopogonidae
acc. to Wirth (1974: 14.27).
- Culicoides* (*Oecacta*) *caridei* (Brèthes, 1912: 452);
(*Cotocripus*). Acc. to Wirth (1974: 14.29).
- Polymera hirticornis* (Fabricius, 1805: 46); (*Chirono-
mus*). In Family Limoniidae acc. to Savchenko et
al. (1992: 232).
- Genus *Psychophaena* Philippi, 1865: 628. Jun. syn. of
Culicoides (*Oecacta*) in Family Ceratopogonidae
acc. to Wirth (1974: 14.27).
- Culicoides* (*Oecacta*) *pictipennis* (Philippi, 1865:
628); (*Psychophaena*). Acc. to Wirth (1974: 14.36).
- Genus *Tetrphora* Philippi, 1865: 630. Jun. syn. of
Forcipomyia (*Forcipomyia*) in Family Ceratopo-
gonidae acc. to Wirth (1974: 14.3).
- Forcipomyia* (*Forcipomyia*) *fusca* Philippi, 1865: 630;
(*Tetrphora*). Acc. to Wirth (1974: 14.5).

In addition to the taxa listed in chapter 2.1, the sources surveyed contain a considerable number of genera only recorded from the Neotropical region through unnamed species. Such information has not previously been included in similar regional summaries, probably because its taxonomic accuracy was ranked below that of binominal records.

The present authors regard these data as important enough to merit a separate listing as given below. Apart from their importance in zoogeographic considerations, they help illustrate in striking fashion what comparatively large gaps remain in our knowledge of Neotropical Chironomidae.

A ? in the table below signifies information not provided by the sources quoted in the far right column. The symbol + marks a previously unpublished distributional record (compare chapter 2.1 under "Geographic data"). For abbreviations of life stages see the list in appendix chapter 4.2.

Taxa	Recorded Distribution	Life Stages	References
Subfamily Aphroteniinae			
<i>Aphroteniella</i> Brundin	Chile	Pex	Brundin (1966: 352)
[Jun. syn.: <i>Anaphrotenia</i> Brundin]			
Subfamily Chironominae			
<i>Cladotanytarsus</i> Kieffer [!C! 11.]	+Brazil	L, Pex	ZSM
	Costa Rica	A	Watson & Heyn (1992: 260)
	Mexico	M	ZSM. See !C! 11.
	Nicaragua	L	Palomäki (1987: 46)
	Nicaragua	L	Bylmakers & Sobalvarro (1988: 34)
<i>Gillotia</i> Kieffer	Brazil	Pex	Reiss (1984: 5)
<i>Glyptotendipes</i> Kieffer	Argentina	?	Bechara & Varela (1990: 52)
	Argentina	L	Marchese & Ezcurra de Drago (1992: 10)
	Brazil	L	Higuti et al. (1993: 69)
	Costa Rica	L	Watson & Heyn (1992: 259)
	Uruguay	L	Chalar (1994: 138)
<i>Harnischia</i> Kieffer	Costa Rica	P	Watson & Heyn (1992: 259)
	Ecuador	L	Turcotte & Harper (1982b: 143)
<i>Hyporhygma</i> Reiss	?	?	Ashe et al. (1987: 43)
<i>Microtendipes</i> Kieffer	Costa Rica	L	Watson & Heyn (1992: 259)
	Peru	L	Roback (1966: 331)
<i>Paracladopelma</i> Harnisch	Brazil	L	Trivinho-Strixino & Strixino (1993: 107)
	Costa Rica	A	Watson & Heyn (1992: 259)
<i>Paratendipes</i> Kieffer	+Bolivia	Pex	ZSM
	+Brazil	Pex	Ospina Torres (1992: 37ff.)
	+Colombia	M	ZSM
	+Costa Rica	M	ZSM
	+Panamá	M	ZSM
	Peru	L	Roback (1966: 332)
	Uruguay	L	Chalar (1994: 138)
<i>Pontomyia</i> Edwards	Belize	L, Pex, F	Bretschko (1981: 381)
<i>Robackia</i> Sæther	Argentina	?	Bechara & Varela (1990: 52)
	Brazil	Pex	Reiss (1984: 5)
<i>Saetheria</i> Jackson	+Brazil	Pex	Ospina Torres (1992: 51)
	+Colombia	M	ZSM
	+Peru	Pex	ZSM
<i>Stempellinella</i> Brundin	+Brazil	Pex	Ospina Torres (1992: 140)
<i>Stictochironomus</i> Kieffer	Brazil	L	Higuti et al. (1993: 69)
<i>Sublettea</i> Roback	+Brazil	Pex	ZSM
	Peru	Pex	Reiss (1984: 5)

Taxa	Recorded Distribution	Life Stages	References
Subfamily Orthoclaadiinae			
<i>Brillia</i> Kieffer [!C! 33.]	Ecuador	L	Turcotte & Harper (1982b: 143)
<i>Eukiefferiella</i> Thienemann	+Brazil	Pex	Stumpp (1993: 231)
<i>Heterotrissocladius</i> Spärck	Ecuador	?	Turcotte & Harper (1982b: 143)
<i>Krcnosmittia</i>	Ecuador	L	Turcotte & Harper (1982b: 143)
Thienemann & Krüger			
<i>Orthocladius</i> v. d. Wulp	Argentina	I	Wais (1987: 77)
	Costa Rica	A	Watson & Heyn (1992: 259)
<i>Parakiefferiella</i> Thienemann	Venezuela	Pex/L	Roback & Coffman (1983: 33)
<i>Paralimnophyes</i> Brundin	Mexico	?	Alcocer et al. (1993a: 410)
<i>Paratrissocladius</i>	Argentina, Chile, Peru	L/Pex	Brundin (1956b: 212/213/218)
Santos Abreu [Jun. syn.: <i>Syncricotopus</i> Brundin])	Costa Rica	L	Watson & Heyn (1992: 259)
<i>Psectrocladius</i> Kieffer	Argentina	I	Varela et al. (1983: 112)
	Brasil	L	Strixino & Strixino (1984: 385)
	Ecuador	L	Turcotte & Harper (1982b: 143)
	Peru	P	Roback (1966: 324)
<i>Rheocricotopus</i>	Peru	L	Roback & Coffman (1983: 40)
Thienemann & Harnisch	Puerto Rico	?	Cranston et al. in Wiederholm (1989: 235)
<i>Synorthocladius</i> Thienemann	Costa Rica	L	Watson & Heyn (1992: 259)
<i>Thalassosmittia</i>	Brazil	A, L	Oliveira (pers. comm.)
Strenzke & Remmert			
Subfamily Prodiamesinae			
<i>Monodiamesa</i> Kieffer	Chile	M, F	Edwards (1931: 268), Brundin (1956a: 65)
<i>Prodiamesa</i> Kieffer	Peru	phM	Roback (1966: 320)
Subfamily Tanypodinae			
<i>Apsectrotanypus</i> Fittkau	+Argentina	A, Pex	ZSM
	Costa Rica	L	Watson & Heyn (1992: 259)
<i>Bethbilbeckia</i> Fittkau & Murray	?	?	Murray & Fittkau in Wiederholm (1989: 47)
<i>Brundiniella</i> Roback	Brazil	L	Trivinho-Strixino & Strixino (1995: 21)
<i>Conchaclopiella</i> Fittkau	Peru	Pex	Ashe et al. (1987: 36)
<i>Denopeloplia</i> Roback & Rutter	+Panamá	M	ZSM
<i>Macropeloplia</i> Thienemann	Brazil	L	Trivinho-Strixino & Strixino (1993: 107)
<i>Meropeloplia</i> Roback	Guatemala	Pex	Sublette & Sasa (1994: 6)
<i>Nilotanypus</i> Kieffer	+Bolivia	Pex	ZSM
	+Brazil	Pex	Schneiberg (1985: 115, 119)
	Costa Rica	P	Watson & Heyn (1992: 259)
<i>Psectrotanypus</i> Kieffer	?	?	Ashe et al. (1987: 37)
	?	?	Murray & Fittkau in Wiederholm (1989: 70)
<i>Thienemannimyia</i> Fittkau	Costa Rica	L, P, A/P	Watson & Heyn (1992: 259)
<i>Zavrelimyia</i> Fittkau	Brazil	L	Trivinho-Strixino & Strixino (1995: 43)
	Costa Rica	L	Jiménez & Springer (1994: 176)
	Ecuador	L	Turcotte & Harper (1982a: 414)

In the following, discussions of issues with taxa are sequenced in the same order applied to the preceding catalog chapters. Where more than one taxon is being treated, the name given in the first title line is the one determining the entry's position in the sequence.

Each individual discussion is given a running number shown leading off the title line. These numbers are directly referred to at the corresponding sites in the catalogs, using the marker format, e.g., !C! 15.

Subfamily Chironominae

1. *Chironomus antarcticus* Walker

The original distribution records include a locality given only as "Rio Grande" on Tierra del Fuego. If these specimens were taken along the lower course of the river by this name (which originates on the Chilean side of the island), or in the town of Rio Grande, then the species' distribution stretches into Argentina.

2. *Chironomus atripennis* Rempel

Originally described as a "*Chironomus (Calochironomus)*". The subgeneric name is now considered a synonym of *Dicrotendipes* Kieffer (See Ashe 1983: 14). Rempel's figure of the male hypopygium of *C. atripennis*, as well as immature material at ZSM associated by the original collector of Rempel's material, F. Lenz, shows the species is a *Chironomus*.

3. *Chironomus calligraphus* Goeldi

Goeldi's descriptions of eggs, egg strings, and larvae under this name do not represent *C. calligraphus* (compare Fittkau 1965).

The first author and several collaborators are presently preparing a manuscript employing morphological and karyological analysis to show that *C. calligraphus* ranges at least as far north as California and Florida. Published records from Argentina (Escalante 1983b, Masafferro et al. 1991) and from the Virgin Islands (Curry & Curry 1971) are reported from larval material only. In light of the paucity of knowledge on South American *Chironomus*, specific identifications from unassociated larvae must be considered tentative.

4. *Chironomus riparius* Meigen

Recorded from Argentina by Townes (1945: 125), and subsequently from Anegada (Virgin Islands) by Curry & Curry (1971: 312). However, the identity of Townes's concept of *riparius* with that of European authors is not beyond doubt. Compare !C! 9.

5. *Chironomus strenzkei* Fittkau

Multiple nomina nuda were produced by repeated publication of the species name (Syrjämäki 1965, 1967; Platzer 1967 (as "strenskei"); Platzer-Schultz 1968a, 1968b) without any accompanying description or diagnosis (ICZN Article 13). However, since names unavailable as nomina nuda may be made available later (ICZN 1985: 260), no new name is required.

6. *Chironomus wuelkeri* Sublette & Sasa, and *Chironomus wulkeri* Philinkova & Belyanina

Philinkova & Belyanina (October 1993: 119) described two new species of *Chironomus* from Russia, one of which they named *C. "wülkeri"*. Although their appended English summary (op. cit: 123) contains the variant spellings "wulkery", and "wulkeri", the consistent use throughout the Russian text, as well as a previous announcement of the species descriptions (CHIRONOMUS 5: 8, April 1993), shows that "wülkeri" was the intended spelling.

Because of the use of the German Umlaut ü, Philinkova & Belyanina's original spelling is incorrect (ICZN Article 27), and must be changed to *wulkeri* (ICZN Article 32 d (i)(2)), incidentally one of the variant original spellings (see above).

Since "a one-letter difference between species-group names is sufficient to prevent homonymy" (ICZN Article 57f), the name *Chironomus wuelkeri* Sublette & Sasa is valid and does not need to be replaced. The above interpretations are supported by the two species' first listings in the Zoological Record (1995; Vol. 131/13C: 307).

Chironomus domizii Paggi, and
Chironomus sancticaroli Strixino & Strixino

In 1939, J.G. Rempel described several new species from adults reared by F. Lenz in northeastern Brazil. Unfortunately, the fate of the type specimens for these taxa is unknown. Searches at all institutions, with which Rempel is known to have been associated, have not produced any of this material. However, Lenz's original collections, from which Rempel's specimens had been derived, have been preserved at ZSM. In these samples, the present second author was able to find several adult males, pharate pupae, and associated larvae without any doubt belonging to *Chironomus xanthus* Rempel.

This material had not been available, when Paggi (1977b) and Strixino & Strixino (1981) described *Chironomus domizii* and *C. sancticaroli*, respectively. Detailed comparisons by the present first author – based on the extensive descriptions of both latter species, as well as on adult males and larvae of *sancticaroli* at ZSM (from the type locality; leg. and det. Strixino & Strixino) – have yielded not a single character separating the 3 described morphologies.

Consequently, *C. domizii* and *C. sancticaroli* are here placed into junior synonymy with *Chironomus xanthus* Rempel.

The species is now known from 5 different localities from northeastern Brazil to northeast Argentina, as well as from the Pantanal region (Mato Grosso, Brazil).

8. *Chironomus attenuatus* Walker, and
Chironomus decorus Johannsen

The name *Chironomus attenuatus* Walker (1848: 20), sometimes treated as a senior synonym of *C. decorus*, is considered a nomen dubium (Oliver, Dillon & Cranston 1990: 43). The holotype adult female belongs with a complex of probably numerous (Martin 1979) closely related species of widespread distribution at least in the Nearctic region, for which *C. decorus* Johannsen (1905: 239) is at present the only workable name. Consequently, the identifications by Bay (1964; from Nicaragua) and by Curry & Curry (1971; Virgin Islands) must be considered highly unreliable.

9. *Chironomus dorsalis* auctores, and
Chironomus viridicollis v. d. Wulp

Meigen's *dorsalis*, listed as a nomen dubium in *Einfeldia* by Ashe & Cranston (1990: 278), can be placed in the subgenus *Chironomus* (*Lobochironomus*): see Cranston et al. (in Wiederholm 1989: 376). For the (?several) species of *Chironomus* sensu stricto erroneously identified with the name *dorsalis* by a number of authors, no valid name has yet been established (compare Ashe & Cranston 1990: 260). The latter authors give *Chironomus viridicollis* v. d. Wulp as a questionable synonym of *C. dorsalis* auctores.

Both *C. viridicollis* sensu Malloch (1915) and *C. dorsalis* auctores are treated as junior synonyms of *C. riparius* Meigen (also see !C! 4.) by Townes (1945: 124).

Pearse (1936: 151) records *viridicollis*, determined after Malloch (1915), from Mexico. Edwards's (1933b: 86) record from Argentina, sub "*Chironomus* (s.str.) *dorsalis* Mg., var.? (?*petiolatus* Kieff.)", does not allow taxonomic placement.

10. *Chironomus petiolatus* Kieffer

The type material of this species – including Kieffer's Chilean "var. *scutellaris*" (described as differing in size and coloration) – is considered lost in a fire at the Hungarian National Museum, Budapest. There may be material from Argentina and Chile labelled "*petiolatus* Kieffer" by Edwards (1931: 312) at The Natural History Museum (London). Also see the latter reference for a lengthy list of suggested (unproven) synonyms.

11. Genus *Cladotanytarsus* Kieffer, and
Cladotanytarsus viridiventris (Malloch)

Owing to the presence of at least one very similar, undescribed species in the U.S. Southwest, several published identifications of *C. viridiventris* are probably in error (J. E. Sublette, pers. comm.) Consequently, the listing of this species from Mexico by Alcocer et al. (1993a: 410) – based on unspecified immature material – may be considered doubtful. There are adults of several undescribed Mexican species of *Cladotanytarsus* at ZSM. Also see chapter 2.2!

©ZooKeys 2015. Cryptochironomus fulvus (Johannsen) download: http://www.biodiversitylibrary.org/; www.biologiezentrum.at
The record from Nicaragua (by Bay 1964: 4) is doubtful, since the *Cryptochironomus fulvus*-group contains several species at present practically impossible to separate in the adult stage.

13. Genus *Cryptotendipes* Beck & Beck

According to the retroactive regulations of the ICZN, Lenz (1941) produced a nomen nudum by not designating a type species. Beck & Beck (1969) fulfilled all the ICZN's requirements for establishing the genus name, since they designated an eligible type species, and defined the morphology not only by indication (i.e. reference to Lenz), but also by including their own generic diagnoses for adults, larvae, and pupae. Therefore, according to ICZN Article 50a, the genus *Cryptotendipes* has been valid since – and must be credited to – Beck & Beck, 1969.

14. *Cryptotendipes daktylos* (Walley in Curran), comb. nov.

New combination based on original description of male hypopygium, as well as examination of type material by J. E. Sublette (pers. comm. April 1996).

15. *Dicrotendipes crypticus* Epler, and

Dicrotendipes embalsensis Paggi

Epler (1988b: 61) tentatively records *D. crypticus* from Paraguay, and suggests possible synonymy with *D. embalsensis* Paggi (both species established in 1987; priority unsolved!). Near-border records from the southwestern U. S. A. suggest that *crypticus* Epler ranges into the Neotropics at least in northern Mexico.

16. Genus *Endochironomus* Kieffer,

Endochironomus subtendens (Townes), and

Glyptotendipes viridis (Macquart)

Pearse (1936: 151) records “*Chironomus ?viridis* Macquart” from Mexico, most probably using Malloch's (1915) keys and description for his identifications (see !C! 9.). Townes (1945: 65) calls determinations of *viridis* sensu Malloch misidentifications, and subsumes such material under his new species, *subtendens*.

“*Endochironomus* sp.” are also reported from Brazil (by Callisto et al. 1996: 52; 1 L determined using Wiederholm 1983), and from Ecuador (by Turcotte & Harper 1982b: 144). However, as stated by Cranston et al. (in Wiederholm 1989: 378), all records of *Endochironomus* “from outside of the Nearctic region ... must be reexamined in the light of Grodhaus (1987)”.

17. Genus *Nilodorum* Kieffer, and

Nilodorum heterochirus Kieffer

Although the fate of Kieffer's type material of *N. heterochirus* is unknown, the species and its genus are considered recognizably described and valid. Edwards (1931: 320) regarded *heterochirus* as a junior synonym of *Chironomus brasiliensis* Wiedemann (see !C! 25.), but without a study of type material of either species that opinion is less than convincing. The old world species of *Nilodorum* auctores, nec Kieffer, have been transferred to *Kiefferulus* Goetghebuer by Cranston et al. (1990).

18. *Parachironomus supparilis* (Edwards)

Considered a “superspecies” with four discernible components by Spies et al. (1994: 81). Its distribution extends from Tierra del Fuego to the southeastern Nearctic (Epler 1995: 7.80).

19. *Tanytarsus oligotrichus* Rempel

Rempel (1939: 214) considered this species to belong into the “Subgenus *Cladotanytarsus*”, but did not elaborate on his reasons. His figure of the male hypopygium shows a short median volsella without indication of branched setae. The types of *T. oligotrichus* so far have not been located. On the other hand, immature material at ZSM associated with this name by F. Lenz, the original collector of Rempel's adult specimens, falls within the present limits of *Tanytarsus*.

Since Johannsen (1938: 221), this species has usually been listed in *Pseudochironomus* (e.g. Oliver et al. 1990: 55). However, the illustrations given by Johannsen (1905) support Townes's (1945: 16) contention that Johannsen's "original series was mixed". The figured larval mentum and pecten epipharyngis, as well as the male hypopygium, point to the genus *Stictochironomus*, whereas other features (e.g. the larval antenna) are consistent with *Pseudochironomus*. No holotype or lectotype have been designated. The type series needs to be reevaluated for clarification.

21. *Chironomus lugens* Kieffer

Transferred to *Tribelos* Townes by Sublette (1967: 552), upon examination of a male newly designated as a lectotype. Grodhaus (1987: 243) considered *lugens* to belong into his new genus *Endotribelos*. A re-examination of the type material is needed to verify Grodhaus's opinion.

22. *Chironomus spilopterus* Williston

An unpublished 1996 list of type material at The Natural History Museum (London) contains 4 "syn-type" specimens sub *Polypedilum*. Townes (1945: 41) reports seeing a possible "cotype" female from the Cornell University collections, which "is apparently a specimen of" *Polypedilum pardus* Townes, but "does not agree well with Williston's figure of the wing pattern of *C. spilopterus*". A revision of the complete type series (8 specimens) is required.

23. *Chironomus (Stenochironomus) ancudensis* Edwards

Borkent (1984: 131f.) explicitly excludes *ancudensis* from *Stenochironomus* Kieffer, due to its separate (instead of fused) hind tibial spurs.

24. *Parachironomus robustus* Paggi

Refer to Spies et al. (1994: 92) for reasons to consider *P. robustus* as outside of the limits of *Parachironomus* Lenz.

25. *Chironomus brasiliensis* Wiedemann, and

Chironomus brevivalva Kieffer

Edwards (1931: 320) considered both *C. brevivalva* Kieffer and *Nilodorum heterochirus* Kieffer (see !C! 17.) to be junior synonyms of *C. brasiliensis*, and placed the latter under "*Chironomus (Nilodorum)*". These opinions were not based on examinations of any type material, and are not followed here.

The present junior author has examined the only specimens of *C. brasiliensis* (1 adult male, 1 female) still available in the Wiedemann collection at the Museum of Natural History, Berlin. Information on the attached labels (La Plata territory; leg. Beschke) leaves identity of this material with Wiedemann's types in doubt. Furthermore, on both of these specimens the abdomen has been lost. Through the courtesy of S. J. de Oliveira, the form redescribed as *C. brasiliensis* from Brazil (Oliveira 1955: 453) has been evaluated as belonging into *Axarus* Roback.

A detailed comparative study is required to determine the taxonomic position of any material recorded under the above names.

26. *Chironomus despectus* Kieffer

In 1921 (p. 186), Kieffer described a "var." of *C. despectus* – also from Paraguay – differing from the latter in several characters. Both series are believed lost in a fire at the Hungarian National Museum, Budapest.

27. *Chironomus dorneri* Malloch

Transferred to *Xenochironomus* by Townes (1945: 95), in spite of the author's admission (op. cit.: 96) that he could "not be sure that the male and female" he examined "are the same species or that either of them are Malloch's *dorneri*". Beck & Beck (1958, after Sublette 1966) state that "Malloch's description of *dorneri*, based on a female, would actually fit several species". The abdomen of the holotype was mostly missing even at the time of the original description (Malloch 1915: 471).

Despite the above, *dorneri* Malloch has been considered a member of *Axarus* since Roback (1963: 236) and Sublette (1966: 25). The latter author's suggestion of (senior) synonymy with *A. ochros* (Walley in Curran) is unconvincing in the light of several discrepancies between the species' descriptions.

Genus *Psilochironomus* Sublette

Sublette (1966: 19), upon examining the holotype of *Chironomus fumus*, erected the monotypic genus *Psilochironomus*, stating that the latter “may be distinguished... by the genitalia lacking superior and inferior appendages”. However, on page 20 (op. cit.), the hypopygium is said to be missing from the holotype specimen. The only remaining evidence consists of a simple drawing given with the original description, insufficient to ascertain the volsellar configuration. Consequently, both taxa in question here are considered nomina dubia.

29. *Chironomus octopunctatus* Loew

North American records under this name following Malloch (1915: 427) are based on misdeterminations (Townes 1945: 39).

30. *Chironomus willistoni* Johannsen, and

Xestochironomus furcatus (Johannsen)

Williston (1896: 275) briefly described the male of a “*Chironomus*, n.sp.” from St. Vincent. Johannsen (1905: 235) repeated the text of the original description, and named the species *C. willistoni*. Later, Johannsen (1942: 70) states that this action had been taken “rashly”, “without having examined a specimen”. Then he reports finding 2 adult female specimens from St. Vincent “bearing a label with the manuscript name “*Chironomus delicatulus*” in Dr. Williston’s handwriting”. Johannsen assumed that Williston was not aware of the latter name being preoccupied by Philippi (1865), and that the female specimens are conspecific with the male now named *C. willistoni*.

Sublette (1967: 548) deems Johannsen’s actions “highly questionable”, since that author’s “cotypes” had been only “subjectively associated” with a “very brief literature description”. Nevertheless, Sublette (op. cit.) proceeds to designate one of Johannsen’s female specimens the lectotype of *C. willistoni*, then relegates the latter (“an otherwise uncertain name”) to junior (!) synonymy with *Xestochironomus furcatus* (Johannsen).

Neither Sublette & Wirth (1972), nor Borkent (1984) mention the above synonymy, or comment on *C. willistoni* at all. The male type specimen of Williston’s is apparently lost. Sublette’s (1967) act of synonymization ignored the principle of priority, and in the light of his own initial judgement on Johannsen’s adult female specimens is not accepted here. Consequently, the taxonomic position and type status of the latter material is also seriously in doubt.

31. *Chironomus quadripunctatus* Kieffer (invalid name)

No replacement name is here proposed, because Kieffer’s taxon – if validly named – would have to be listed as a nomen dubium.

Subfamily Diamesinae

32. *Chironomus eburneocinctus* Philippi, 1865: 599,

Chironomus lacteocinctus Philippi, 1865: 600,

Genus *Heptagyia* Philippi, and

Heptagyia annulipes Philippi, 1865: 635

Brundin (1966: 396) placed *C. lacteocinctus* in junior synonymy with *H. annulipes*, based on comparisons of specimens from his own collections with an adult male believed to have been determined as *C. lacteocinctus* by Philippi. The latter specimen, however, apparently has not been considered part of the type series of *C. lacteocinctus*, since Brundin (op.cit.) ignored it when proceeding to designate a neotype (!) for this species, and there is no listing for *C. lacteocinctus* in Camousseight’s (1980) catalog of type specimens at the Chilean National Museum.

Brundin’s (1966: 396) descriptions do not agree with Philippi’s in all relevant details (e.g., the blackening of the crossvein RM in the wing), and his associations of the respective adult sexes may be considered no more than circumstantial. In synonymizing *C. lacteocinctus* with *H. annulipes* one also has to presuppose that Philippi, inspite of the generally fine details of his wing figures, in this case mistook a Diamesinae wing for that of a Chironominae (Philippi placed *Heptagyia* in “*Tipulariae gallicolae*”, but *Chironomus* in “*T. culiciformes*”). Finally, Brundin omitted discussion of *C. eburneocinctus*, a species at least as likely as *H. annulipes* to be the female match to *C. lacteocinctus*.

Following Brundin (1956a: 18), and Camousseight (1980), the types of all 3 species considered here must at be regarded as lost, and a rigorous solution of the problem is therefore impossible. Consequently, since rejection of Brundin's arguments and actions would place common usage of the entire tribe Heptagyini into doubt, the respective positions of the above taxa in this catalog have been chosen favoring taxonomic stability over any other consideration.

Subfamily Orthoclaadiinae

33. Genus *Brillia* Kieffer

The original type species, *Metriocnemus bifidus* Kieffer, is a junior synonym of *Chironomus modestus* Meigen, 1830. The latter name, however, falls as a junior primary homonym to *C. modestus* Say, 1823: 13. Therefore, *B. bifida* (Kieffer) – as the oldest available synonym of *C. modestus* Meigen nec Say – becomes the valid name for the type species of *Brillia* Kieffer.

34. *Clunio brasiliensis* Oliveira

S. J. de Oliveira (pers. comm.) considers Roback's (1971) Puerto Rican specimens to be of a different species.

35. *Limnophyes minimus* (Meigen)

Single Neotropical record (Juan Fernandez Islands) by Wirth (1952: 100), from adult females determined as *L. pusillus* Eaton. Reexamination required (Sæther 1990: 66).

36. *Paraphaenocladus exagitans longipes* Sæther & Wang

All Neotropical material seen by Sæther & Wang (1995) for their generic revision has been placed in *P. exag. longipes*. The Guatemalan record (by Sublette & Sasa 1994: 26) is called "likely to" belong to the same taxon. Also compare Roback & Coffman's (1983: 38) *Paraphaenocladus* sp. (L. Bolivia).

37. Genus *Pseudosmittia* Edwards

Originally described by Goetghebuer (1932: 126), but without fixation of a type species, therefore a nomen nudum according to the retroactive ICZN Article 13b. On the other hand, Edwards (1932) met the requirements of the Code, describing the genus by inference (ICZN Article 13a(ii)), and designating an eligible type species. Consequently, following ICZN Article 50a, *Pseudosmittia* must be credited to Edwards (1932).

38. *Symbiocladius wygodzinskyi* Roback

Roback's type series has been found to contain a second species, descriptions of which (by the present first author) are in press.

39. *Metriocnemus ancudensis* Edwards, and

Metriocnemus longicostalis Edwards

An unpublished list of chironomid type material at The Natural History Museum (London), dated March 1996, registers these species under *Gynnometriocnemus*.

40. *Metriocnemus griseovittatus* Edwards

Sæther (1995: 38) considers this the only one of Edwards's (1931) species "likely to belong to" *Metriocnemus*, but did not examine the types.

41. *Spaniotoma* (*Orthocladus*) *barilochensis* Edwards

An unpublished list of chironomid type material at The Natural History Museum (London), dated March 1996, contains this species under *Austrocladius*. However, it was not among the Edwards species transferred to that genus by Freeman (1961).

42. *Parochlus araucanus* Brundin, and
Parochlus kiefferi (Garrett)

According to Brundin (1966: 140), the records of *Parochlus kiefferi* (Garrett) from the Chilean Juan Fernandez Islands (by Wirth 1952: 94; sub *Podonomus*), and from Argentina and Chile (by Edwards 1931: 256; as *Podonomus peregrinus*), are based on misidentifications. Brundin subsumes all of these samples under his new *Parochlus araucanus*.

43. *Parochlus steinenii* (Gercke)

Brundin (1966: 159ff.) erected the subspecies *P. steinenii steinenii* and *P. steinenii brevipennis*, based on his own material from southern Chile and Argentina, and central Chile, respectively. However, in a letter to the junior author (dated 7/XII/1983) Brundin states that the above action had been taken without comparison of either Gercke's original material or description, and he concludes – upon reexamination – that his identification of *P. steinenii* had been in error.

Unfortunately, this information was never explicitly published. Thus, although Cranston & Martin (in Evenhuis 1989: 800) correctly give the species' distribution as limited to the Antarctic region, *steinenii* is still being quoted as present in South America (e.g., Convey & Block 1996: 4).

Brundin's South American specimens require revision to determine their proper taxonomic position.

44. Genus *Podonomus* Philippi,
Podonomus stigmaticus Philippi, and
Podonomus uschuaensis (Enderlein)

Philippi's single adult female specimen of *P. stigmaticus*, which became the nominotypical basis for its genus and later for the entire subfamily, must be considered lost (Brundin 1966: 185). Just as in the orthocladiine genus *Spaniotoma* Philippi, this lack of type material in combination with an insufficient original description should, by all means, have precluded the application of Philippi's names for "modern" taxonomic concepts (the same applies to the genera *Heptagyia*, and *Pentaneura*; see there). Unfortunately, beginning with Edwards (1929), the opposite has been the case. Refer to Ashe (1983: 43) for a discussion of some of the confusion in the case of *Podonomus*.

The latter author considers the diagonal, anterior wing "stigma" described by Philippi for *P. stigmaticus* a character diagnostic enough even in the absence of type material. In our opinion, this "stigma" is probably nothing more than the "thickened distal portion of R₁ and adjoining part of the costa" (Brundin 1966: 76) commonly found on wings of female Podonominae. For example, compare fig. 41b in Edwards (1931), incidentally given for *Podonomus simplex* (now in *Podochilus* !), the species Edwards considered the closest to *P. stigmaticus* of all the species known to him at the time (op. cit.: 264).

Ochilus Enderlein, synonymized with *Podonomus* by Edwards (1931: 252) without examining type material for either genus, would be available to represent the modern concept, since the holotype female of *Ochilus uschuaensis* Enderlein has been preserved (Brundin 1966: 225).

However, relegating *P. stigmaticus* to a nomen dubium – as did Brundin (1966: 185), but without the proper consequences (Ashe 1983: 43) – would require revision of taxonomy and terminology of the entire subfamily Podonominae. In the interest of taxonomic stability, *Podonomus*, and *P. stigmaticus* have been retained in this catalog.

Subfamily Prodiamesinae

45. *Monodiamesa bathyphila* (Kieffer, 1918: 102), and
Prodiamesa rufovittata Goetghebuer

Recorded from Chile as "*Prodiamesa bathyphila*, Kieff. (?)" by Edwards (1931: 268). Later considered (by Edwards in Pagast 1947: 584) as "probably identical with *P. rufovittata*". Found again by Brundin, who called the Chilean specimens "without doubt an independent species" (1956a: 65) in *Monodiamesa*.

46. *Ablabesmyia bianulata* [sic!] Paggi

The original publication was printed with the article header on page 329 giving the date as “1987 (1985)”. However, on the inside back cover of the journal issue containing this paper, there is a note fixing the printing date as “April 1988”.

47. *Ablabesmyia monilis* (Linnaeus)

The only plausible Neotropical record (Solabarrieta & Weibezahn 1980: 247, 258) is reportedly based on determinations of larvae by Sæther. However, the above authors alternatively list the same taxon as “cf. *monilis* (L.)” (op. cit.: 257). Also see !C! 55.

48. *Ablabesmyia punctulata* (Philippi)

Edwards (1931: 248) subsumes *Tanypus pubicornis* (Fabricius) sensu Lynch Arribálzaga (1893: 232) – but not sensu Fabricius! – under *A. punctulata*. However, the leg coloration of *punctulata* as given by Philippi and Edwards differs markedly from the descriptions for *pubicornis* (also see !C! 54.).

49. *Coelotanypus neotropicus* (Kieffer)

Edwards (1931: 317) transfers the species – originally described from an adult female – to *Coelotanypus*, based on an adult male he collected in Argentina. Kieffer’s description may be interpreted as representing a species of *Coelotanypus*, but his type material is deemed destroyed in a fire at the Hungarian National Museum, Budapest. Especially in light of the often pronounced sexual dimorphism in adults of *Coelotanypus*, Edwards’s determination is here considered doubtful. The latter author also incorrectly called his male specimen the holotype (1931: 317).

Roback (1965a: 40) calls his own earlier record of *C. neotropicus* (Kieffer) from Panamá (Roback 1962: 1) a misdetermination of *C. scapularis* (Loew). Hogue (1975), and Zaret (1984) quote Roback’s erroneous record.

50. Genus *Pentaneura* Philippi,
Pentaneura cinerea (Philippi), and
Pentaneura grisea Philippi

For all these taxa, as with the genera *Heptagyia*, *Podonomus* (see there), and *Spaniotoma*, Edwards’s belief that specimens he was studying represented Philippi’s concepts was based not on examinations of type material, but solely on similarities selectively derived from the literature. In the case of *Pentaneura*, Edwards (1931: 248) dismisses such features as a highly aberrant wing venation, and palps about half as long as the antennae, and ignores Philippi’s statement that the tibial apices are unarmed. Edwards’s subsequent synonymization of *P. grisea* with what he perceived to be Philippi’s *Chironomus cinereus* is based on little more than possibly identical type localities (Edwards 1931: 251).

Fittkau (1962: 366), when redefining the modern understanding of *Pentaneura*, acknowledged the above problems, but decided to maintain Edwards’s synonymy and nomenclature. However, Fittkau’s (op. cit.) recognition of a “lectotype of *Pentaneura cinerea*” from Edwards’s material is invalid. If, in the interest of taxonomic stability, current usage of the names *Pentaneurini*, *Pentaneura*, and *P. cinerea* is to be upheld, a neotype should be designated upon revision of Edwards’s specimens in the latter name.

51. *Tanypus lenzi*, nom. nov.

Lenz’s publication contains information on his sampling locality, but no mention of individual (type) specimens. However, among the material from the Lenz collections preserved at ZSM, the junior author has discovered the specimens the descriptions of *Pelopia marginata* Lenz were based on. The labels contain the proper species and locality information in Lenz’s handwriting, and morphological details of the slide-mounted parts clearly match the figures given in the original paper.

In accordance with ICZN (1985) Recommendation 72B, this external evidence is considered sufficient to regard this material as the undeclared type series of *Pelopia marginata* Lenz. Consequently, to establish an unmistakable taxonomic basis for *Tanypus lenzi*, the following designations are made.

Lectotype: Prepupal larva; Brazil, “Parahyba” (=Paraíba), Campina Grande, Açude Doublo; 28/II/1934; leg. F. Lenz. Paralectotypes: 2 Pex, 1 L, 1 partial L, 6 L heads; otherwise as above. All at ZSM.

Chironomus pictipennis Philippi

There are several Neotropical records of *T. punctipennis*, published by different authors, but they are either from larvae only, or carry a “var.” or “?” behind the species name.

C. pictipennis was synonymized with *T. punctipennis* by Edwards (1931: 239). Since Philippi’s type material was not studied for that action, and the original description is very brief, the synonymy may be regarded as questionable. Moreover, with Philippi’s collections considered almost completely lost, *C. pictipennis* is a nomen dubium.

53. Genus *Anatopynia* Johannsen (sensu Edwards)

Edwards (1931: 239) considered *Macropelopia* and *Psectrotanypus* to be synonyms of *Anatopynia*. As a result, many South American forms described in the latter genus can not be placed without reexamination. Compare Fittkau (1962: 114) for a listing of species possibly belonging into *Macropelopia*.

54. *Tanypus pubicornis* (Fabricius)

Wiedemann (1820: 37) repeats the original description (sub *Chironomus*), then transfers the species to *Tanypus* three pages later (op. cit.: 40, compare Wiedemann 1828: 18). This was apparently based on an examination of type material, of which 1 specimen is still available in the Royal Museum at Copenhagen (Zim-sen 1964: 452). Lynch Arribálzaga’s record from Argentina (1893: 232) may be a misidentification, since the adult abdominal markings he describes were not mentioned by the older authors. Also see !C! 48., and !C! 56.

55. *Tanypus elongatus* Kieffer, and
Tanypus transversalis Kieffer

Each described as a “var.” of *Ablabesmyia monilis* (L.). However, Kieffer’s descriptions of the adult male hypopygia rule out specific identity with *A. monilis* in both cases.

56. *Tanypus fraterculus* Lynch Arribálzaga

Lynch A. calls this species very similar to *Tanypus pubicornis* (Fabricius) – see !C! 54. – and to *Ablabesmyia annulata* (Say).

57. *Tanypus griseipennis* Kieffer (invalid name)

No replacement name is here proposed, because Kieffer’s taxon – if validly named – would have to be listed as a nomen dubium.

Subfamily Telmatogetoninae

58. *Thalassomyia frauenfeldi* Schiner

Record based on 2 independent collections of adult females from Montevideo (Edwards 1926, 1931). However, the “status of... Atlantic populations of *T. frauenfeldi* Schiner needs reexamination” (Cranston in Wiederholm 1989: 19).

59. *Thalassomyia pilipes* Edwards

Distribution based on Wirth (1969). Not listed in the Nearctic catalog (Oliver et al. 1990). Australasian catalog (Cranston & Martin 1989) does not recognize American records.

Subfamily status unknown

60. *Chironomus articuliferus* Blanchard,
Chironomus maculosipennis Kieffer,
Chironomus obscurellus Blanchard,
Chironomus pallidulus Blanchard, and
Chironomus tessellatus Blanchard

Type material reportedly available at the French National Museum of Natural History, Paris (L. Matile, pers. comm.).

Holotype reportedly available at the Chilean National Museum, Santiago (Camousseight 1980: 25). The synonymies with *Metriocnemus fuscipes* (Meigen) and/or *M. picipes* (Meigen) suggested by various authors (Lynch Arribálzaga 1893: 257, Kieffer 1906b: 31, Brèthes 1907: 281) were derived only from perceived agreement in described size and coloration, and are not accepted here.

62. *Chironomus maculatus* Fabricius

Two type specimens are reportedly available at the Royal Museum, Copenhagen (Zimsen 1964: 451).

63. *Burmeisteria photophila* Weyenbergh, and

Genus *Burmeisteria* Weyenbergh (invalid name)

The genus was considered a junior synonym of *Chironomus* by Lynch Arribálzaga (1893: 242), but the original description contains sufficient features to the contrary (also compare Ashe 1983: 13). However, in the absence of Weyenbergh's type material, *B. photophila* has to be regarded as a nomen dubium. *Burmeisteria* Weyenbergh is a junior primary homonym (see section 2.1 under "Invalid names in Chironomidae").

64. *Chironomus atomarius* Lynch Arribálzaga,

Chironomus debilis Lynch Arribálzaga, and

Chironomus obscuripennis Lynch Arribálzaga (invalid names)

No replacement names are here proposed, because Lynch A.'s taxa – if they were validly named – would have to be listed as nomina dubia.

3 Bibliography

The following list gives all titles verified by the authors as containing information on Caribbean, Central, and South American Chironomidae, as well as the other references cited in this publication.

Only those entries followed by the code "NT+" contain first-hand data on the fauna treated here. Citations for originally extralimital genus (not species!) descriptions without any Neotropical contents have not been included below. Such titles are generally available from Ashe (1983).

From those works covering Chironomidae at family level only, the authors have extracted a more or less personal selection. On the other hand, with papers reporting genus- and species-group level data, no subjective criteria such as reliability of the taxonomic information contained were imposed for inclusion.

Apart from those papers directly quoted in this volume, any large series of publications on a common project is represented only by individual citations serving as sources to the remaining bibliography (e.g. Marchese & Ezcurra de Drago 1992, Wiederholm 1983-1989).

Individual authors' names consisting of more than one word are carried beginning with the first capital letter of the first clearly recognizable surname (e.g. "De la Rosa", but "Oliveira, de", and "Ospina Torres, R.", not "Torres, R. O.").

Same-year titles by any particular (combination of) author(s) are listed in chronological order, with lower case letter suffixes following the year number. For titles whose actual appearance dates deviate from the ones published in the papers themselves, or from those commonly cited, each correct date is given first, followed, in parentheses, by the erroneous date(s) flanked by quotation marks (e.g. Bidawid & Fittkau 1996 ("1995")). Information relevant to the above issues was derived from:

- direct evidence (e.g. actual printing dates published on journal covers or editorial pages)
- exact dates from the bibliography in Ashe (1983)
- the listing order in Fittkau, Reiss & Hoffrichter (1976), or Hoffrichter & Reiss (1981).

Abbreviations of journal titles – wherever possible – follow the 1992 edition of "Zoological Record Serial Sources". Information on subseries within journals, and on issue numbers (in parentheses following the volume number) is given as available, but could not be extensively researched to ensure completeness.

Unless specifically mentioned, theses are considered unpublished works in the sense of the ICZN.

- Alcocer, J. Lugo, A., Estrada, S., Ubieda, M. & E. Escobar 1993a. La macrofauna bentónica de los axalapascos mexicanos. – Actas Congreso Español de Limnología (Granada) 6: 409-415. NT+
- 1993b. Littoral chironomids of a Mexican Plateau athalassohaline lake. – Int. Ver. Theor. Angew. Limnol. Verh. 25: 444-447. NT+
- Alcocer-Durand, J. & E. G. Escobar-Briones 1992. The aquatic biota of the now extinct lacustrine complex of the Mexico Basin. – Freshwater Forum 2 (3): 171-183. NT+
- Andersen, T. & O. A. Sæther 1994. *Usambaromyia nigrula* gen. n., sp. n., and *Usambaromyiinae*, a new subfamily among the Chironomidae. – Aquat. Insects 16 (1): 21-29
- 1995. The first record of *Buchonomyia* Fittkau and the subfamily Buchonomyiinae from the New World (Diptera, Chironomidae). Pp. 363-367 in: Cranston, P. S. (ed.), Chironomids: From genes to ecosystems – CSIRO, East Melbourne, VI + 482 pp. NT+
- 1996. New species and records of *Beurdius* Reiss et Sublette (Diptera: Chironomidae). – Ann. Limnol. 32 (1): 33-44. NT+
- Añón Suarez, D. A. 1991a. Estructura poblacional de *Ablabesmya* [sic!] *punctulata* (Diptera: Chironomidae) en el bentos del lago Escondido. – Biol. Acuática 15 (2): 232-233. NT+
- 1991b. Distribución del bentos del lago Escondido (Rio Negro, Argentina) con especial énfasis en los quironómidos (Diptera, Chironomidae). – Stud. Neotrop. Fauna Environ. 26 (3): 149-157. NT+
- Armitage, P. D., Cranston, P. S. & L. C. V. Pinder (eds.) 1995. The Chironomidae. Biology and ecology of non-biting midges. – Chapman & Hall, London, XII + 572 pp. NT+
- Ashe, P. 1983. A catalogue of Chironomid genera and subgenera of the world including synonyms (Diptera: Chironomidae). – Entomol. Scand. Suppl. 17: 1-68. NT+
- & P. S. Cranston 1990. Family Chironomidae. Pp. 113-355 in: Soós, Á. & L. Papp (eds.), Catalogue of Palaearctic Diptera, Vol. 2. Psychodidae – Chironomidae. – Akadémiai Kiadó, Budapest, 499 pp. NT+
- , Murray, D. A. & F. Reiss 1987. The zoogeographical distribution of Chironomidae (Insecta: Diptera). – Ann. Limnol. 23: 27-60. NT+
- Bay, E. C. 1964. An analysis of the “sayule” (Diptera: Chironomidae) nuisance at San Carlos, Nicaragua, and recommendations for its alleviation. – WHO EBL series 20, WHO Vector Control 86, 18 pp. (mimeogr.). NT+
- , Domínguez, F. & N. Escobar 1966. A second survey of the chironomid midge problem at San Carlos, Nicaragua. – WHO EBL series 66.77, 9 pp. (mimeogr.). NT+
- Bechara, J. A. & N. L. Andreani 1989. El macrobentos de una laguna cubierta por *Eichhornia crassipes* en el valle de inundación del río Paraná (Argentina). – Trop. Ecol. 30 (1): 142-155. NT+
- & M. E. Varela 1990. La fauna bentónica de lagunas y cursos de agua del sistema Iberá (Corrientes, Argentina). – Ecosur 16 (27): 45-60. NT+
- Beck, E. C. 1962. Five new Chironomidae (Diptera) from Florida. – Fla. Entomol. 45: 89-92
- & W. M. Beck 1969. Chironomidae (Diptera) of Florida: III. The *Harnischia* complex (Chironominae). – Bull. Fla. State Mus. 13 (5): 277-311
- Beck, W. M. & E. C. Beck 1958. A new species of *Xenochironomus* from Florida (Diptera: Chironomidae). – Fla. Entomol. 45: 27-28
- 1966. Chironomidae (Diptera) of Florida: 1. Pentaneurini (Tanypodinae). – Bull. Fla. State Mus., Biol. Ser. 10 (8): 305-379
- Berg, C. 1881. Entomologisches aus dem Indianergebiet der Pampa. – Stettiner Entomol. Zeitg. 42 (1-3): 36-72. NT+
- Bidawid, N. 1985. Zur Kenntnis der neotropischen Arten der Gattung *Polypedilum* Kieffer (Chironomidae: Diptera). Systematik, Ökologie und Verbreitung. – Doct. diss., Univ. München, Germany, 281 pp. NT+
- & E. J. Fittkau 1996 (“1995”). Zur Kenntnis der neotropischen Arten der Gattung *Polypedilum* Kieffer, 1912. Teil I. (Diptera, Chironomidae). – Entomofauna 16 (27): 465-536. NT+
- Bidawid-Kafka, N. 1996. Zur Kenntnis der neotropischen Arten der Gattung *Polypedilum* Kieffer, 1912. Teil II. (Diptera, Chironomidae). – Entomofauna 17 (11): 165-240. NT+
- Bigot, J. M. F. 1891. Diptères. – Mission Scientifique du Cap Horn. Zoologie 6 (Part 2: Section 5): 45 pp. + 4 plates + 1 p. errata. NT+
- Blanchard, E. 1852. Orden IX. Dipteros. Pp. 327-468 in: Gay, C. (ed.), Historia física y política de Chile. – Zoología (Paris & Santiago de Chile) 7: 1-471. NT+
- Bonetto, A. A., Varela, M. E. & J. A. Bechara 1986. El bentos del Paraná medio en el tramo Corrientes-Esquina. – Ecosur 12/13 (23/24): 37-57. NT+
- & I. R. Wais 1995. Southern South American streams and rivers. Pp. 257-293 in: Cushing, C. E., Cummins, K. W. & G. W. Minshall (eds.), River and stream ecosystems, Ecosystems of the World, Vol. 22. – Elsevier, Amsterdam etc., XII + 817 pp. NT+
- Borkent, A. 1984. The systematics and phylogeny of the *Stenochironomus* complex (*Xestochironomus*, *Harrisius*, and *Stenochironomus*) (Diptera: Chironomidae). – Mem. Entomol. Soc. Can. 128: 1-269. NT+
- Brèthes, J. 1907. Catálogo de los Dipteros de las Repúblicas del Plata. – An. Mus. Nac. (B. Aires) 16 (Ser. 3a, Vol. 9): 277-305. NT+
- 1909. Dipteros e Himenópteros de Mendoza. – An. Mus. Nac. (B. Aires) 19 (Ser. 3a, Vol. 12): 85-105. NT+
- 1912. Description d’un nouveau Chironomidae du Chili. – Bol. Mus. Nac. Chile 4: 219-220. NT+
- 1913. Description d’un nouveau Chironomidae du Chili. – Rev. Chil. Hist. Nat. 17: 19-20. NT+

- Bretschko, G. 1985. *Pontomyia* Edwards (Diptera: Chironomidae), a member of the coral reef community at Carry Bowat Cay, Belize. – *Smithson. Contrib. Mar. Sci.* **12**: 381-385. NT+
- Brezonik, P. L. & J. L. Fox 1974. The limnology of selected Guatemalan lakes. – *Hydrobiologia* **45**: 467-487. NT+
- Brundin, L. 1956a. Zur Systematik der Orthoclaadiinae (Dipt. Chironomidae). – *Rep. Inst. Freshwater Res. Drottningholm* **37**: 5-185. NT+
- 1956b. Die bodenfaunistischen Seentypen und ihre Anwendbarkeit auf die Südhalbkugel. Zugleich eine Theorie der produktionsbiologischen Bedeutung der postglazialen Erosion. – *Rep. Inst. Freshwater Res. Drottningholm* **37**: 186-235. NT+
- 1962. Insects of Macquarie Island. Diptera: Chironomidae. – *Pacific Insects* **4** (4): 945-954. NT+
- 1963. Limnic Diptera in their bearings on the problem of transantarctic faunal connections. Pp. 425-434 in: Gressitt, J. L. (ed.), *Pacific basin biogeography*. – Bishop Museum Press, Honolulu, Hawai'i. NT+
- 1966. Transantarctic relationships and their significance, as evidenced by chironomid midges. With a monograph of the subfamilies Podonominae and Aphroteniinae and the austral Heptagytiae. – *Kungl. Svenska Vetenskapsakad. Handl.* **11**: 1-472. NT+
- 1967. Insects and the problem of austral disjunctive distribution. – *Ann. Rev. Entomol.* **12**: 149-168. NT+
- 1970. Diptera: Chironomidae of South Georgia. – *Pacific Insects Monogr.* **23**: 276. NT+
- 1983a. *Chilenomyia paradoxa* gen. n., sp. n. and Chilenomyiinae, a new subfamily among the Chironomidae (Diptera). – *Entomol. Scand.* **14**: 33-45. NT+
- 1983b. Two new aphrotenian larval types from Chile and Queensland, including *Anaphrotenia lacustris* n. gen., n. sp. (Diptera: Chironomidae). – *Entomol. Scand.* **14**: 415-433. NT+
- Bylmakers, L. 1989. The colonization of artificial substrata by benthic invertebrates in the littoral zone of Lake Managua, Nicaragua. – *Acta Biol. Debr. Oecol. Hungar.* **3**: 71-81. NT+
- & A. I. Sobalvarro 1988. Ecological studies on the profundal benthic invertebrate fauna of Lake Managua, Nicaragua. – *Trop. Freshwater Biol.* **1** (1): 30-41. NT+
- Callisto, M., Serpa-Filho, A., Oliveira, S. J. de & F. A. Esteves 1996. Chironomids on leaves of *Typha domingensis* in a lagoon of Rio de Janeiro State (Brazil). – *Stud. Neotrop. Fauna Environ.* **31**: 51-53. NT+
- Camousseight M. A. 1980. Catálogo de los tipos de insecta depositados en la colección del Museo Nacional de Historia Natural (Santiago, Chile). – *Publ. Occ. Mus. Nac. Hist. Nat. (Santiago)* **32**: 1-45. NT+
- Carraro, V. M., Oliveira, S. J. de & L. E. P. do Rego 1992. On a new neotropical species of the genus *Djalmabatista* Fittkau, 1968 (Diptera, Chironomidae). – *Mem. Inst. Oswaldo Cruz Rio de J.* **87**, Suppl. **1**: 57-60. NT+
- Chalar, G. 1994. Composición y abundancia del zoobentos del Arroyo Toledo (Uruguay) y su relación con la calidad de agua. – *Rev. Chil. Hist. Nat.* **67** (2): 129-141. NT+
- Cheng, L. & C. L. Hogue 1974. New distribution and habitat records of biting midges and mangrove flies from the coast of southern Baja California, Mexico (Diptera: Ceratopogonidae, Culicidae, Chironomidae, and Phoridae). – *Entomol. News* **85** (7&8): 211-218. NT+
- Cockerell, T. D. A. 1915. A new midge from Guatemala. – *Can. Entomol.* **47**: 315-316. NT+
- Coffman, W. P., De la Rosa, C., Cummins, K. W. & M. A. Wilzbach 1992. Species richness in some Neotropical (Costa Rica) and Afrotropical (West Africa) lotic communities of Chironomidae (Diptera). – *Neth. J. Aquat. Ecol.* **26** (2-4): 229-237. NT+
- Contreras-Lichtenberg, R. 1982. Ein Beitrag zur Kenntnis von *Goeldichironomus* (*Chironomus*) *carus* (Townes) 1945 (Diptera, Chironomidae). – *Spixiana* (Munich) **5** (2): 175-182. NT+
- 1988. *Tanytarsus curvicastratus* spec. nov. eine neue Chironomidenart aus Kolumbien (Diptera, Chironomidae). – *Spixiana Suppl.* (Munich) **14**: 101-104. NT+
- 1994. Beitrag zur Kenntnis der Gattung *Dicrotendipes* Kieffer in Chile Insecta: Diptera: Chironomidae). – *Ann. Naturh. Mus. Wien Ser. B, Bot. Zool.* **96**: 591-598. NT+
- Convey, P. & W. Block 1996. Antarctic Diptera: Ecology, physiology and distribution. – *Eur. J. Entomol.* **93**: 1-13. NT+
- Cooper, B. E. 1991. Diptera types in the Canadian National Collection of Insects. Part I. Nematocera. – *Res. Branch, Agric. Can., Publ.* 1845/B, III + 113 pp. NT+
- Coquillett, D. W. 1895. Descriptions of new genera and new species. Pp. 307-319 in: Johnson, C. W., *Diptera of Florida*. – *Proc. Acad. Nat. Sci. Philadelphia* **1895**: 303-340
- 1900a. Papers from the Harriman Alaska Expedition. IX. Entomological results (3): Diptera. – *Proc. Wash. Acad. Sci.* **2**: 389-464
- 1900b. Report on a collection of dipterous insects from Puerto Rico. – *Proc. U. S. Nat. Mus.* **22**: 249-270. NT+
- 1902. New Diptera from North America. – *Proc. U. S. Nat. Mus.* **25**: 83-126
- Cotroni Valenti, W. & O. Froehlich 1986. Estudo da diversidade da taxocenose de Chironomidae de dez reservatórios do Estado de São Paulo. – *Cienc. Cult. (São Paulo)* **38** (4): 703-707. NT+
- Cranston, P. S. & D. D. Judd 1987. *Metriocnemus* (Diptera: Chironomidae) – an ecological survey and description of a new species. – *J. N. Y. Entomol. Soc.* **95**: 534-536. NT+
- & J. Martin 1989. Family Chironomidae. Pp. 252-274 in: Evenhuis, N. L. (ed.), *Catalog of the Diptera of the Australasian and Oceanic Regions*. – Bishop Mus. Spec. Publ. **86**: 1-1155. NT+
- & U. Nolte 1996. *Fissimentum*, a new genus of drought-tolerant Chironomini (Diptera: Chironomidae) from the Americas and Australia. – *Entomol. News* **107** (1): 1-15. NT+

- Curran, C. H. 1928. Insects of Porto Rico and the Virgin Islands. Diptera or two-winged flies. – Sci. Surv. Porto Rico Virg. Isl. (N. Y. Acad. Sci.) 11 (1): 10-13. NT+
- – 1932. The Norwegian zoological expedition to the Galápagos Islands 1925, conducted by Alf Wollebaek. IV. Diptera. (Excl. of Tipulidae and Culicidae). – Nyt Magazin Naturvidenskaberne 71 [or Meddelelser Zool. Mus. Oslo 30]: 347-366. NT+
- – 1934. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 13. Diptera. – Proc. Calif. Acad. Sci., 4th Ser. 21: 147-172. NT+
- Curry, L. L. 1974. The midge fauna (Diptera, Chironomidae) of the U. S. and British Virgin Islands; the genera *Goeldichironomus* and *Siolimyia*. – Entomol. Tidskr. 95 (Suppl.): 58-65. NT+
- – & M. C. Curry 1971. The Chironomidae (Diptera) found in the U. S. Virgin Islands and Anegada, British Virgin Islands. – Can. Entomol. 103: 310-314. NT+
- Davies, B. R. & K. F. Walker (eds.) 1986. The ecology of river systems. – Dr. Junk, Dordrecht, XVIII + 793 pp. NT+
- Day, J. A. & B. R. Davies 1986. The Amazon river system. Pp. 289-318 in: Davies, B. R. & K. F. Walker (eds.), The ecology of river systems. – Dr. Junk, Dordrecht, XVIII + 793 pp. NT+
- Dejoux, C. 1993. Benthic invertebrates of some saline lakes of the Sud Lipez region, Bolivia. – Hydrobiologia 267: 257-267. NT+
- – & A. Iltis (eds.) 1992. Lake Titicaca. A synthesis of limnological knowledge. – Monogr. Biol. 68: 1-584. NT+
- De la Rosa, C. 1992. Phoretic associations of Chironomidae (Diptera) on Corydalidae (Megaloptera) in northwestern Costa Rican streams. – J. North Am. Benthol. Soc. 11 (3): 316-323. NT+
- Dendy, J. S. & J. E. Sublette 1959. The Chironomidae (=Tendipedidae: Diptera) of Alabama with descriptions of six new species. – Ann. Entomol. Soc. Amer. 52 (5): 506-519
- de Oliveira, S. J. see: Oliveira, S. J. de
- Di Persia, D. H. 1986. Zoobenthos of the Paraná system. Pp. 589-598 in: Davies, B. R. & K. F. Walker (eds.), The ecology of river systems. – Dr. Junk, Dordrecht, XVIII + 793 pp. NT+
- – & J. Olazarri 1986. Zoobenthos of the Uruguay system. Pp. 623-629 in: Davies, B. R. & K. F. Walker (eds.), The ecology of river systems. Dr. Junk, Dordrecht, XVIII + 793 pp. NT+
- Eaton, A. E. 1875. Breves dipterarum uniusque lepidopterarum Insulae Kerguelensi indigenarum diagnoses. – Entomol. Mon. Mag. 12: 58-61
- Edward, D. H. D. 1989. Gondwanaland elements in the Chironomidae (Diptera) of South-Western Australia. – Acta Biol. Debr. Oecol. Hung. 2: 181-187 NT+
- Edwards, F. W. 1926. On marine Chironomidae (Diptera); with descriptions of a new genus and four new species from Samoa. – Proc. Zool. Soc. London 51: 779-806. NT+
- – 1928. Nematocera. – Insects of Samoa, pt. 6 (fasc. 2): 23-102. NT+
- – 1929. British non-biting midges (Diptera, Chironomidae). – Trans. R. Entomol. Soc. London 77: 279-430
- – 1931. Chironomidae. Pp. 233-331 in: Diptera of Patagonia and South Chile. II (5). – Trustees Brit. Mus. (Nat. Hist.), London. NT+
- – 1932. Recent literature. Faune de France: 23. Diptères: Chironomidae, IV. Par M. Goetghebuer. Paris (Lechevalier), 1932. – Entomologist 65: 140-141. NT+
- – 1933a. Mycetophilidae, Culicidae, and Chironomidae and additional records of Simuliidae, from the Marquesas Islands. – Bishop Mus. Bull. 114: 85-92. NT+
- – 1933b. Die Ausbeute der deutschen Chaco-Expedition 1925/26. – Diptera XXXIX-XLI. Cecidomyiidae, Chironomidae, Ceratopogonidae. – Konowia 12: 86-88. NT+
- – 1935. P. 110 in: Anonymous, Addenda et Corrigenda. Index. – Insects of Samoa, pt. 9 (fasc. 3): 105-159. NT+
- – & R. C. Shannon 1927. Expedición entomológica argentino-británica al Noroeste de la Patagonia. – Rev. Inst. Bacteriol. (Dept. Nac. Higiene B. Aires) 7 (4): 643-661. NT+
- Edwards, M. & M. B. Usher 1985. The winged Antarctic midge *Parochlus steinenii* (Gerke) [sic!] (Diptera: Chironomidae) in the South Shetland Islands. – Biol. J. Linn. Soc. 26: 83-93. NT+
- Enderlein, G. 1908. Die biologische Bedeutung der Antarktis und ihrer Faunengebiete mit besonderer Berücksichtigung der Insektenwelt. – Dt. Südpolar-Exped. 1901-1903 10 (Zool. II.): 326-360 + 1 pl. NT+
- – 1912. Die Insekten des Antarkto-Archipelago-Gebietes (Feuerland, Falklands-Inseln, Südgeorgien). – Kungl. Svenska Vetenskapakad. Handl. 48 (3): 1-170. NT+
- Epler, J. H. 1986a. *Oukuriella*, a new genus of Chironomidae (Diptera) from South America. – Entomol. Scand. 17 (2): 157-163. NT+
- – 1986b. A novel new Neotropical *Nauocladus* (Diptera: Chironomidae), symphoretic on *Traverella* (Ephemeroptera: Leptophlebiidae). – Fla. Entomol. 69 (2): 319-327. NT+
- – 1987a. Revision of the Nearctic *Dicrotendipes* Kieffer, 1913 (Diptera: Chironomidae). – Evol. Monograph. 9: 1-102 + 37 pl. NT+
- – 1987b. Notes on the *Dicrotendipes* (Diptera: Chironomidae) of Mexico, with descriptions of two new species. – Entomol. Scand. Suppl. 29: 147-154. NT+
- – 1988a. A reconsideration of the genus *Apedilum* Townes, 1945 (Diptera, Chironomidae). – Spixiana. Suppl. (Munich) 14: 105-116. NT+

- 1988b. Biosystematics of the genus *Dicortendipes* Kieffer, 1913 (Diptera: Chironomidae, Chironominae) of the world material. Mem. Am. Entomol. Soc. **36**: 1-214. NT+
- 1995. Identification manual for the larval Chironomidae (Diptera) of Florida. 2nd edition. -- Fla. Dept. Environ. Protect., Tallahassee, V + 312 pp
- 1996a. New species of *Oukuriella* (Diptera: Chironomidae) from Costa Rica. -- *Hydrobiologia* **318** (1&2): 3-11. NT+
- 1996b. A new species of *Dicortendipes* (Diptera: Chironomidae) from Costa Rica. -- *Hydrobiologia* **318** (1&2): 13-15. NT+
- & C. L. De la Rosa 1995. *Tempisquitoneura*, a new genus of Neotropical Orthocladiinae (Diptera: Chironomidae) symphoretic on *Corydalis* (Megaloptera: Corydalidae). -- J. North Am. Benthol. Soc.: **14** (1): 50-60. NT+
- Escalante, A. H. 1982. Contribución al conocimiento de las relaciones tróficas de peces de agua dulce del área platense. I. *Asiyanax eigenmanniorum* (Osteichthyes Tetragonopteridae). -- *Limnobiós* **2** (5): 311-322. NT+
- 1983a. Contribución al conocimiento de las relaciones tróficas de peces de agua dulce del área platense. II. Otros Tetragonopteridae. -- *Limnobiós* **2** (6): 379-402. NT+
- 1983b. Contribución al conocimiento de las relaciones tróficas de peces de agua dulce del área platense. III. Otras especies. -- *Limnobiós* **2** (7): 453-463. NT+
- 1984. Contribución al conocimiento de las relaciones tróficas de peces de agua dulce del área platense. IV. Dos especies de Cichlidae y miscelánea. -- *Limnobiós* **2** (8): 562-578. NT+
- Ezcurra de Drago, I. & A. Bonetto 1969. Algunas características del bentos en los saltos del río Uruguay, con especial referencia a la ecología de los Poríferos. -- *Physis* **28** (77): 359-369. NT+
- Evenhuis, N. L. (ed.) 1989. Appendix I. Diptera of Antarctica and subantarctic islands. Pp. 797-804 in: Evenhuis, N. L. (ed.), Catalog of the Diptera of the Australasian and Oceanic Regions. -- Bishop Mus. Spec. Publ. **86**: 1-1155. NT+
- 1994. Catalogue of the fossil flies of the world (Insecta: Diptera). -- Backhuys Publ., Leiden, VIII + 600 pp. NT+
- Fabricius, J. C. 1794. Entomologia systematica emendata et aucta. -- Hafniae (=Copenhagen), IV + 472 pp
- 1805. Systema antliatorum. Secundum. Ordines, genera, species. Adiectis synonymis, locis, observationibus, descriptionibus. -- K. Reichard, Brunsvigae (=Brunswick), 375 + 30 pp. NT+
- Ferrington, L. C. jr., Buzby, K. M. & E. Masteller 1993. Composition and temporal abundance of Chironomidae emergence from a tropical rainforest stream at El-Verde, Puerto Rico. -- J. Kans. Entomol. Soc. **66** (2): 167-180. NT+
- & H. E. Pehofer, 1996. Instar distribution and biomass of Chironomidae larvae in Lago El Junco, Isla San Cristobal, the Galápagos. -- *Hydrobiologia* **318** (1&2): 123-133. NT+
- & O. A. Sæther 1995. *Physoneura*, a new genus of Orthocladiinae from Patagonia and South Chile (Diptera: Chironomidae). -- *Aquat. Insects* **17** (1): 57-63. NT+
- Fish, D. 1983. Phytotelmata: Flora and fauna. Pp. 1-27 in: Frank, J. H. & L. P. Lounibos (eds.), Phytotelmata: Terrestrial plants as hosts for aquatic insect communities. -- Plexus Publ., Medford, New Jersey, VII + 293 pp. NT+
- Fittkau, E. J. 1962. Die Tanypodinae (Diptera, Chironomidae). Die Tribus Anatópyniini, Macropelopiini und Pentaneurini. -- Abh. Larvalsyst. Insekten **6**: 1-453. NT+
- 1963. *Manoa*, eine neue Gattung der Chironomidae (Diptera) aus Zentralamazonien. Chironomidenstudien IX. -- *Arch. Hydrobiol.* **59**: 373-390. NT+
- 1965. Revision der von E. Goeldi aus dem Amazonasgebiet beschriebenen Chironomiden (Diptera). Chironomidenstudien X. -- *Beitr. Neotrop. Fauna* **4**: 209-226. NT+
- 1967. On the ecology of Amazonian rain-forest streams. -- *Atas Simpósio Biota Amazônica* **3** (Limnol.): 97-108. NT+
- 1968a. *Siolimyia amazonica* n. gen. n. spec., eine flugfähige Chironomide (Diptera) mit einem Hypopygium inversum. -- *Amazoniana* **1**: 259-265 + IX pl. NT+
- 1968b. Eine neue Tanypodinae-Gattung, *Djalmabatista*, (Chironomidae, Diptera) aus dem brasilianischen Amazonasgebiet. -- *Amazoniana* **1** (4): 327-349. NT+
- 1968c. *Chironomus strenzkei* n. sp. (Chironomidae, Dipt.) ein neues Laboratoriumstier. -- *Z. Morphol. Tiere* **63**: 239-250. NT+
- 1971a. Distribution and ecology of Amazonian chironomids (Diptera). -- *Can. Entomol.* **103**: 407-413. NT+
- 1971b. Der Torsionsmechanismus beim Chironomiden-Hypopygium. -- *Limnologica* **8**: 27-34. NT+
- 1974. *Ichthyocladius* n. gen., eine neotropische Gattung der Orthocladiinae (Chironomidae, Diptera), deren Larven epizoisch auf Welsen (Astroblepidae und Loricariidae) leben. -- *Entomol. Tidskr. Suppl.* **95**: 91-106. NT+
- 1977. Kinal and kinon, habitat and coenosis of the surface drift as seen in Amazonian running waters. -- *Geo-Eco-Trop.* **1**: 9-21. NT+
- 1978. Sich abzeichnende Verbreitungsmuster in der neotropischen-nearktischen Chironomidenfauna. -- *Mitt. Dtsch. Ges. Allg. Angew. Entomol.* **11**: 77-81. NT+
- (printed as "Fittkau, E.") 1986. Conocimiento actual sobre la colonización de la región tropical Sudamericana por insectos acuáticos y su historia evolutiva, con especial referencia a los Quironómidos. -- *An. Mus. Hist. Nat. Valpsol.* **17**: 97-103. NT+
- & D. A. Murray 1988. *Bethbilbeckia floridensis*: a new genus and species of Macropelopiini from the south eastern Nearctic. (Diptera: Chironomidae). -- *Spixiana Suppl. (Munich)* **14**: 253-259
- & F. Reiss 1973. Amazonische Tanytarsini (Chironomidae, Diptera). I. Die *riopreto*-Gruppe der Gattung *Tanytarsus*. -- *Stud. Neotrop. Fauna* **8**: 1-16 NT+
- & -- 1976. Die zoogeographische Sonderstellung der neotropischen Chironomiden. -- *Spixiana (Munich)* **2**: 273-280. NT+

- ©Zoologische Staatssammlung München, 1979. A bibliography of the Chironomidae. – *Gunneria* 26: 177 pp
- Frank, J. H. 1983. Bromeliad phytotelmata and their biota, especially mosquitoes. Pp. 101-128 in: Frank, J. H. & L. P. Lounibos (eds.), *Phytotelmata: Terrestrial plants as hosts for aquatic insect communities*. – Plexus Publ., Medford, New Jersey, VII + 293 pp. NT+
- & L. P. Lounibos (eds.) 1983. *Phytotelmata: Terrestrial plants as hosts for aquatic insect communities*. – Plexus Publ., Medford, New Jersey, VII + 293 pp. NT+
- Freeman, P. 1959. A study of the New Zealand Chironomidae (Diptera, Nematocera). – *Bull. Brit. Mus. (Nat. Hist.)*, Entomol. 7 (9): 393-437. NT+
- 1961. The Chironomidae of Australia. – *Austral. J. Zool.* 9 (4): 611-737. NT+
- & P. S. Cranston 1980. Family Chironomidae. Pp. 175-202 in: Crosskey, R. W. (ed.), *Catalogue of the Diptera of the Afrotropical region*. – *Brit. Mus. (Nat. Hist.)*, 1437 pp. NT+
- Freihofer, W. C. & E. H. Neil 1967. Commensalism between midge larvae (Diptera: Chironomidae) and catfishes of the families Astroblepidae and Loricariidae. – *Copeia* 1: 39-45. NT+
- Freitas, F. de, Floeter-Winter, L. M. & O. Leoncini 1985. Cytological and cytochemical characterization of the polytene chromosomes of *Chironomus sancticarloli* (Diptera: Chironomidae). – *Rev. Bras. Genet.* 8 (1): 47-60. NT+
- Garrett, C. B. D. 1925. Seventy new Diptera. – *Cranbrook, B.C.*, 16 pp
- Gerecke, R., Peck, S. B. & H. E. Pehofer 1995. The invertebrate fauna of the inland waters of the Galápagos Archipelago (Ecuador) – a limnological and zoogeographical summary. – *Arch. Hydrobiol. Suppl.* 107 (2): 113-147. NT+
- Gerry, B. I. 1932. A new species of *Chironomus* from Jamaica (Chironomidae). – *Psyche* (Cambridge) 39: 69-71. NT+
- 1933. Four new species of Chironomidae from the Greater Antilles. – *Psyche* (Cambridge) 40: 94-97. NT+
- Goeldi, E. A. 1905. Os mosquitos no Pará. – *Mem. Mus. Paraense Hist. Nat. Ethnogr.* 4: 134-139. NT+
- Goetghebuer, M. 1921. Chironomides de Belgique et spécialement de la zone des Flandres. – *Mem. Mus. R. Hist. Nat. Belg.* 8 (4): 1-211
- 1927. Nouveaux matériaux pour l'étude de la faune des Chironomides de Belgique. 3me note. – *Annls. Biol. Lacustre* 15: 93-104
- 1932. Diptères Chironomidae IV (Orthocladiinae, Corynoneurinae, Clunioninae, Diamesinae). – *Faune Fr.* 23: 1-204
- Gómez P. L. D. 1977. La biota bromelícola excepto anfibios y reptiles. – *Hist. Nat. Costa Rica* 1: 45-62. NT+
- Gonser, T. 1990. Beiträge zur Biologie südneotropischer Ephemeropteren. – *Doct. diss. Univ. Freiburg, Germany*, III + 224 pp. NT+
- Gonzalez, J. M., Jaffe, K. & F. Michelangeli 1991. Competition for prey between the carnivorous Bromeliaceae *Brocchinia reducta* and Sarraceneaceae *Heliophora nutans*. – *Biotropica* 23 (4b): 602-604. NT+
- Goulden, C. E. 1966. The animal microfossils. In: *The history of Laguna de Petenxil, Guatemala*. – *Mem. Connecticut Acad. Arts Sci.* 17: 84-120. NT+
- Grodhaus, G. 1987. *Endochironomus* Kieffer, *Tribelos* Townes, *Symdentodendipes* n. gen., and *Endotribelos* n. gen. (Diptera: Chironomidae) of the Nearctic region. – *J. Kans. Entomol. Soc.* 60 (2): 167-247. NT+
- Guido Pereira, S., Pereira, M. E. de. & F. Weibezahn 1983. Algunos aspectos de la depredación por parte de los peces sobre el bentos del Lago de Valencia, Venezuela. – *Acta Cient. Venez.* 34 (1): 34-38. NT+
- Halvorsen, G. A. 1988. Redescription of *Paratrissocladius acuminatus* (Edwards) comb. nov. (= *Cardiocladius acuminatus* Edwards) from southern Chile (Diptera: Chironomidae). – *Spixiana Suppl. (Munich)* 14: 85-89. NT+
- Harrison, A. D. & J. J. Rankin 1975. Forest litter and stream fauna on a tropical island, St. Vincent, West Indies. – *Int. Ver. Theor. Angew. Limnol. Verh.* 19: 1736-1745. NT+
- 1976a. Hydrobiological studies of eastern Lesser Antillean islands. I. St. Vincent: Freshwater habitats and water chemistry. – *Arch. Hydrobiol. Suppl.* 50: 96-144. NT+
- 1976b. Hydrobiological studies of eastern Lesser Antillean islands. II. St. Vincent: Freshwater fauna – its distribution, tropical river zonation and biogeography. – *Arch. Hydrobiol. Suppl.* 50: 275-311. NT+
- Hashimoto, H. 1976. Non-biting midges of marine habitats (Diptera: Chironomidae). Pp. 377-414 in: Cheng, L. (ed.), *Marine insects*. – North Holland Publ. Co., Amsterdam. NT+
- 1979. A new species of *Thalassomyia* [sic!] (Diptera, Chironomidae) from Cocos Island, Costa Rica. – *Annot. Zool. Japon.* 52: 272-276. NT+
- Heard, S. B. 1994. Pitcher-plant midges and mosquitoes: a processing chain commensalism. – *Ecology* 75: 1647-1660. NT+
- Hennig, W. 1950. Die Larvenformen der Dipteren. Eine Übersicht über die bisher bekannten Jugendstadien der zweiflügeligen Insekten. 2. Teil. – Akademie-Verlag, Berlin, VII + 460 pp. NT+
- Higuti, J., Takeda, A. M. & A. C. Paggi 1993. Distribuição espacial das larvas de Chironomidae (Insecta, Diptera) do Rio Baía (MS – Brasil). – *Rev. Unimar* 15 (Suppl.): 65-81. NT+
- Hirvenoja, M. 1973. Revision der Gattung *Cricotopus* van der Wulp und ihrer Verwandten (Diptera, Chironomidae). – *Ann. Zool. Fenn.* 10: 1-363. NT+
- Hoffrichter, O. & F. Reiss 1981. Supplement I to "A bibliography of the Chironomidae". – *Gunneria* 37: 68 pp
- Hogue, C. L. 1975. Possible effects of sea water introductions to the habitats of aquatic insects in Gatun Lake. – *Spec. Rept. to Panama Canal Comp.*, 62 pp. NT+
- 1993. Latin American insects and entomology. – Univ. of California Press, Berkeley, XIV + 536 pp. NT+
- & S. E. Miller 1981. Entomofauna of Cocos Island, Costa Rica. – *Atoll Res. Bull.* 250: 1-29. NT+
- Holmgren, A. E. 1869. Bidrag til Kännodomen om Beeren Eilands och Spetsbergen Insekt-Fauna. – *Kungl. Svenska Vetensk. Handl.* 8: 1-55

- Hunter, W. D. 1900. Catalogue of the Diptera of South America. Part I. Bibliography and Nemocera. Trans. Am. Entomol. Soc. **26**: 260-298. NT+
- Hurd, P. D. jr., Smith, R. F. & J. W. Durham 1962. The fossiliferous amber of Chiapas, Mexico. – *Ciencia* **21**: 107-118. NT+
- Hynes, H. B. N. 1971. Zonation of the invertebrate fauna in a West Indian stream. – *Hydrobiologia* **38**: 1-8. NT+
- International Commission on Zoological Nomenclature 1985. International Code of Zoological Nomenclature. Third edition. – Internat. Trust Zool. Nomenclature, London, XX + 338 pp. NT+
- Irmrlr, U. 1975. Ecological studies of the aquatic soil invertebrates in three inundation forests of Central Amazonia. – *Amazoniana* **5**: 339-406. NT+
- Jackson, J. K. & B. W. Sweeney 1995. Egg and larval development times for 35 species of tropical stream insects from Costa Rica. – *J. North Am. Benthol. Soc.* **14** (1): 115-130. NT+
- Jacobs, J. C. 1900. Diptères. Pp. 106-107 in: Diagnoses d'insectes recueillis par l'expédition antarctique Belge. – *Ann. Soc. Entomol. Belg.* **44**: 104-113. NT+
- 1906. Bibionidae, Chironomidae, Culicidae, Tipulidae, Syrphidae, Muscidae, Rhyphidae, Anthomyidae. Pp. 67-71 in: Exped. Antarct. Belge, Résultats du voyage du S. Y. Belgica en 1897-1898-1899, Rapp. Sci., Zool., Insectes, Diptères. – Impr. Buschmann, Antwerp. NT+
- Jiménez, C. & M. Springer 1994. Vertical distribution of benthic macrofauna in a Costa Rican crater lake. – *Rev. Biol. Trop.* **42** (1&2): 175-179
- Johannsen, O. A. 1903. Aquatic nematoceros Diptera. Pp. 328-441 in: Needham, J. G., MacGillivray, A. D., Johannsen, O. A. & K. C. Davis, Aquatic insects in New York State. – *Bull. N. Y. State Mus.* **68**: 197-517
- 1905. Aquatic nematoceros Diptera II. Chironomidae. Pp. 76-327 + 22 plates in: Needham, J. G., Morton, K. I. & O. A. Johannsen, (eds.), May flies and midges of New York. – *Bull. N. Y. State Mus.* **86**: 352 pp. NT+
- 1907. Appendix. Some new species of Kansas Chironomidae. Pp. 109-112 in: Tucker, E. S., Some results of desultory collecting of insects in Kansas and Colorado. – *Kansas Univ. Sci. Bull.* **4**: 51-112
- 1908. New North American Chironomidae. Pp. 264-285 in: Felt, E. P., 23rd report of the State entomologist on injurious and other insects of the State New York. – *Bull. N. Y. State Mus.* **124**: 5-541
- 1938. New species of Nemocera from Puerto Rico. – *J. Agric. Univ. Puerto Rico* **22**: 219-225. NT+
- 1942. Immature and adult stages of new species of Chironomidae (Diptera). – *Entomol. News* **53**: 70-77. NT+
- 1946. Revision of the North American species of the genus *Pentaneura* (Tendipedidae: Chironomidae, Diptera). – *J. N. Y. Entomol. Soc.* **54**: 267-289. NT+
- Johnson, C. W. 1924. Diptera of the Williams Galápagos Expedition. – *Zoologica* (New York) **5** (8): 85-92. NT+
- Junk, W. 1973a. Investigations on the ecology and production-biology of the "floating meadows" (*Paspalo-Echinochloetum*) on the middle Amazon. Part II. The aquatic fauna in the root zone of floating vegetation. – *Amazoniana* **4**: 9-102. NT+
- 1973b. Faunistisch-ökologische Untersuchungen als Möglichkeit der Definition von Lebensräumen, dargestellt an Überschwemmungsgebieten. – *Amazoniana* **4**: 263-271. NT+
- Kertész, K. 1902. Catalogus dipterorum hucusque descriptorum. Vol. I. – Engelmann, Leipzig + Mus. Nat. Hungar., Budapest. NT+
- Kieffer, J. J. 1906a. Diptera. Fam. Chironomidae. – In: Wytzman, P. (ed.), *Genera Insectorum* **42**: 1-78 + 4 pl. NT+
- 1906b. Description d'un genre nouveau et de quelques espèces nouvelles de Diptères de l'Amérique du Sud. – *Ann. Soc. Sci. Bruxelles, Serie B* **30**: 349-358. NT+
- 1909. Description de quelques Diptères exotiques. – *Boll. Lab. Zool. Gen. Agric. (Portici)* **4**: 327-328. NT+
- 1911. Nouvelles descriptions de Chironomides obtenus d'éclosion. – *Bull. Soc. Hist. Nat. Metz* **27**: 1-60
- 1917. Chironomides d'Amérique conservés au Musée National Hongrois de Budapest. – *Ann. Hist.-Nat. Mus. Nat. Hungar.* **15**: 292-364. NT+
- 1918. Beschreibung neuer, auf Lazarettsschiffen des östlichen Kriegsschauplatzes und bei Ignalino in Litauen v. Dr. W. Horn gesammelter Chironomiden, mit Übersichtstabellen einiger Gruppen von palaearktischen Arten (Dipt.). – *Entomol. Mitt.* **7**: 35-53, 94-110, 163-188
- 1921. Description de quelques Chironomides exotiques. – *Ann. Soc. Sci. Bruxelles, Serie B* **40**: 181-186. NT+
- 1925. Chironomides de la République Argentine. – *Ann. Soc. Sci. Bruxelles* **44** (2ieme partie): 73-92. NT+
- & A. Thienemann 1908. Neue und bekannte Chironomiden und ihre Metamorphose. I. Neue und bekannte Chironomiden (Kieffer). – *Z. Wiss. InsektBiol.* **4**: 1-10, 33-39, 78-84
- Knöppel, H.-A. 1970. Food of Central Amazonian fishes. Contribution to the nutrient ecology of Amazonian rain forest streams. – *Amazoniana* **2**: 257-352. NT+
- Laessle, A. M. 1961. A microlimnological study of Jamaican bromeliads. – *Ecology* **42**: 499-517. NT+
- Langton, P. H., Cranston, P. S. & P. D. Armitage 1988. The parthenogenetic midge of water supply systems, *Paratanytarsus grimmii* (Schneider) (Diptera: Chironomidae). – *Bull. Entomol. Res.* **78**: 317-328. NT+
- Lenz, F. 1939. Die Chironomidengattung *Coelotanypus* (mit einem Beitrag von F. W. Edwards, London). – *Zool. Anz.* **127**: 177-184. NT+
- 1950. Die Metamorphose einer tropischen *Pelopia*-Art. Pp. 502-515 in: Herre, W. (ed.), Neue Ergebnisse und Probleme der Zoologie – *Zool. Anz.* **145**, Ergänzungsband, XII + 1154 pp. NT+
- Lichtenberg, R. 1979a. Chironomiden aus Kolumbien I. Ein Beitrag zur Verbreitung von *Cryptocladopelma boydi* (Beck, 1962) (Diptera, Nematocera). – *Ann. Naturhist. Mus. Wien* **82**: 541-548. NT+

- 1979b. *Goldichironomus pseudopictus* n. sp., eine neue Chironomidenart aus Kolumbien (Diptera: Nematocera). Chironomiden aus Kolumbien II. – *Aquat. Insects* **1** (2): 91-102. NT+
- Lichtwardt, R. W. 1994. Trichomycete fungi living in the guts of Costa Rican phytotelm larvae and other lentic dipterans. – *Rev. Biol. Trop.* **42** (1&2): 31-48
- Lindeberg, B. & T. Wiederholm 1979. Notes on the taxonomy of European species of *Chironomus* (Diptera: Chironomidae). – *Entomol. Scand. Suppl.* **10**: 99-116
- Linnaeus, C. 1758. *Systema naturae per regna tria naturae*. Ed. **10**. I: 1-824
- Linsley, E. G. 1977. Insects of the Galápagos (Supplement). – *Occ. Pap. Calif. Acad. Sci.* **125**: 1-50. NT+
- & R. L. Usinger 1966. Insects of the Galápagos Islands. – *Proc. Calif. Acad. Sci.*, 4th Ser. **33**: 113-196. NT+
- Lizer, C. 1919. Primer ensayo bibliográfico de entomología Argentina. Pp. 351-380 in: Primer reunión nacional de la Sociedad Argentina de Ciencias Naturales: Tucumán, 1916. – Impr. Coni, Buenos Aires. NT+
- Loew, H. 1861a. *Diptera Americae septentrionalis indigena. Centuria prima*. – *Berl. Entomol. Z.* **5**: 307-359
- 1861b. *Diptera aliquot in insula Cuba collecta*. – *Wiener Entomol. Monatsschr.* **5**: 33-43. NT+
- 1866. *Diptera Americae septentrionalis indigena. Centuria septima*. – *Berl. Entomol. Z.* **10**: 1-54. NT+
- Lothrop, B. B. & M. S. Mulla 1995. Mode of existence and seasonality of midge larvae (Diptera: Chironomidae) in man-made lakes in the Coachella Valley, southern California. – *J. Am. Mos. Control Assoc.* **11** (1): 77-85
- Lüling, K. H. 1975. Ichthyologische und gewässerkundliche Beobachtungen und Untersuchungen an der Yarina Cocha, in der Umgebung von Pucallpa und am Rio Pacaya (mittlerer und unterer Ucayali, Ostperu). – *Zool. Beitr.* **21**: 29-96. NT+
- Lynch Arribáizaga, E. 1881a. IV. Diptera. Pp. 88-91 in: Doering, A., Berg, C. & E. L. Holmberg, Expedición al Río Negro (Patagonia). Ira Parte. Zoología. – Ostwald & Martinez, Buenos Aires, 168 pp. + 4 plates + 1 p. errata. NT+
- 1881b. Neue Dipteren aus dem südlichen Gebiet der Pampa. – *Stettiner Entomol. Zeitg.* **42** (4-6): 189-192. NT+
- 1882. Catálogo de los Dípteros hasta ahora descritos que se encuentran en las repúblicas del Río de la Plata. – *Bol. Acad. Nac. Cienc. Córdoba* **4** (2): 109-152. NT+
- Lynch Arribáizaga, F. 1893. *Dipterología Argentina* (Chironomidae). – *Bol. Acad. Nac. Cienc. Córdoba* **13**: 211-258. NT+
- Macquart, J. 1826. Insectes Diptères du Nord de la France. Tipulaires. – *Mem. Soc. Sci. Agric. Arts Lille*, **1823-1824**: 59-224
- 1838. Diptères exotiques nouveaux ou peu connus. – *Mem. Soc. Roy. Sci. Agric. Arts Lille* **1** (1.re partie), 221 + XXV pp. NT+
- Maes, J.-M. 1990. Catálogo de los Diptera de Nicaragua. 5. Chironomidae (Nematocera). – *Rev. Nicar. Entomol.* **14**: 41-43. NT+
- Maldonado Capriles, J. & C. A. Navarro 1967. Additions and corrections to Wolcott's "Insects of Puerto Rico". – *Caribb. J. Sci.* **7** (1&2): 45-64. NT+
- Malloch, J. R. 1915. The Chironomidae, or midges, of Illinois, with particular reference to the species occurring in the Illinois River. – *Bull. Illinois State Lab. Nat. Hist.* **10** (6): 275-543
- Marchese, M. & I. Ezcurra de Drago 1983. Zoobentos de los principales tributarios del río Paraná medio en el tramo Goya – Diamante. Su relación con el cauce principal y cauces secundarios. – *Rev. Asoc. Cienc. Nat. Litoral* **14** (2): 95-109. NT+
- 1992. Benthos of the lotic environments in the middle Paraná River system: transverse zonation. – *Hydrobiologia* **237**: 1-13. NT+
- Marlier, G. 1965. Étude sur les lacs de l'Amazonie Centrale. – *Cadernos de Amazonia* **5**: 1-52. NT+
- 1967. Hydrobiology in the Amazon region. – *Atas Simpósio Biota Amazônica* **3** (Limnol.): 1-7. NT+
- Martin, J. 1979. Chromosomes as tools in taxonomy of Chironomidae (Diptera). – *Entomol. Scand. Suppl.* **10**: 67-74
- Masaferro, J., Paggi, A. C. & A. Rodrigues Capítulo 1991. Estudio poblacional de los quironómidos (Insecta Diptera) de la Laguna de Lobos, Provincia de Buenos Aires, Argentina. – *Graellsia* **47**: 129-137. NT+
- Meigen, J. W. 1804. Klassifikation und Beschreibung der europäischen zweiflügeligen Insekten. Vol. **1**, Part 1. – K. Reichard, Brunswick, XXVIII + 152 pp. + 8 pl. NT+
- 1818. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. Part **1**. – F. W. Forstmann, Aachen, XXXVI + 325 pp. + 11 pl. NT+
- 1830. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. Vol. **6**. – Schulz, Hamm, XI + 401 pp
- Messias, M. C. 1995. Contribuição ao estudo da intersexualidade induzida pelo parasitismo por larvas de mermitídeos (Nematoda: Mermithidae) em adultos de quironomídeos (Diptera: Nematocera, Chironomidae) no Brasil. – Master's thesis, Univ. Fed. Rur. Rio de Janeiro, Brazil, 55 pp. NT+
- Meunier, F. 1904. Monographie des Cecidomyiidae, des Sciaridae, des Mycetophilidae et des Chironomidae de l'ambre de la Baltique. – Polleunis & Centerick, Brussels, 264 pp. NT+
- Miller, A. C. 1971. Observations on the Chironomidae (Diptera) inhabiting the leaf axils of two species of Bromeliaceae on St. John, U.S. Virgin Islands. – *Can. Entomol.* **103**: 391-396. NT+
- Morath, E. 1970. Untersuchungen zur Morphologie und Cytotaxonomie [sic!] kolumbianischer *Chironomus*arten (Diptera). – State exam. thesis, Univ. Freiburg, Germany, 62 pp. NT+
- Nacem, S. 1988. Predator-prey interactions and community structure: chironomids, mosquitoes and copepods in *Heliconia inbricata* (Musaceae). – *Oecologia* (Berlin) **77**: 202-209. NT+
- Nessimian, J. L. 1993. Estrutura, composição e dinâmica da fauna invertebrada bentônica, em um brejo entre dunas no litoral do Estado do Rio de Janeiro. – Doct. thesis, Inst. Biociências, UNESP, Rio Claro, Brazil, V + 251 pp. NT+

- 1995a. Composição da fauna de invertebrados bentônicos em um brejo entre dunas no litoral do Estado do Rio de Janeiro, Brasil. – Acta Limnol. Bras. 7: 41-59. NT+
- 1995b. Abundância e biomassa de macroinvertebrados bentônicos em um brejo de dunas no litoral do Estado do Rio de Janeiro. – Rev. Bras. Biol. 55 (4): 661-683. NT+
- & A.M. Sanseverino 1995. Structure and dynamics of chironomid fauna from a sand dune marsh in Rio de Janeiro State, Brazil. – Stud. Neotrop. Fauna Environ. 30 (4): 207-219. NT+
- Nolte, U. 1986. Erstbesiedlung künstlicher Kleingewässer und primäre Sukzession des Makrozoobenthos unter besonderer Berücksichtigung der Chironomidae (Diptera) – Feldexperimente in Zentralamazonien. – Doct. diss., Univ. Göttingen, Germany, 263 pp. NT+
1988. Small water colonization in pulse stable (várzea) and constant (terra firme) biotopes in the Neotropics. – Arch. Hydrobiol. 113: 541-550. NT+
1989. Observations on Neotropical rainpools (Bolivia) with emphasis on Chironomidae (Diptera). – Stud. Neotrop. Fauna Environ. 24 (3): 105-120. NT+
1995. From egg to imago in less than seven days: *Apedilum elachistus*. Pp. 177-184 in: Cranston, P. S. (ed.), Chironomids: From genes to ecosystems. – CSIRO, East Melbourne, VI + 482 pp. NT+
- Odum, H. T. & R. F. Pigeon (eds.) 1970. A tropical rain forest. A study of irradiation and ecology at El Verde, Puerto Rico. – U. S. Atomic Energy Comm., Oak Ridge, Tenn., 1667 pp. NT+
- Oliveira, S. J. de 1944. Sobre a presença de "*Tanypus stellatus*" Coquillett, 1902 no estado de Minas Gerais, Brasil (Diptera, Chironomidae, Tanypodinae). – Rev. Bras. Biol. 4 (1): 91-94. NT+
1946. Sobre um novo Orthocladiinae neotrópico (Diptera, Chironomidae). – Papeis Avulsos Dept. Zool., Secret. Agric., São Paulo 31: 279-282. NT+
1949. Sobre uma nova espécie neotrópica do gênero "*Cardiocladius*" Kieffer, 1912 (Diptera: Chironomidae). – Rev. Bras. Biol. 9 (1): 5-8. NT+
- 1950a. Sobre duas novas espécies neotrópicas do gênero "*Telmatogeton*" Schiner, 1866 (Diptera, Chironomidae). – Mem. Inst. Oswaldo Cruz Rio de J. 48: 469-477 + 4pp. figs. NT+
- 1950b (engl. translation of 1950a). On two new Neotropical species of the genus "*Telmatogeton*" Schiner, 1866 (Diptera, Chironomidae). – Mem. Inst. Oswaldo Cruz Rio de J. 48: 479-485. NT+
- 1950c. Sobre uma nova espécie neotrópica do gênero "*Clunio*" Haliday, 1855 (Diptera, Chironomidae). – Rev. Bras. Biol. 10 (4): 493-500. NT+
1951. Nova espécie neotrópica do gênero "*Cardiocladius*" Kieffer, 1912 (Diptera, Chironomidae). – Papeis Avulsos Dept. Zool., Secret. Agric., São Paulo. 10 (6): 133-138. NT+
1953. Sobre a presença do gênero "*Clinotanypus*" Kieffer, 1913 na região neotrópica com a descrição de duas espécies novas (Diptera, Chironomidae). – Rev. Bras. Biol. 13 (3): 275-282. NT+
1954. Sobre "*Telmatogeton atlanticum*" Oliveira, 1950, com a descrição do alótipo fêmea. – Mem. Inst. Oswaldo Cruz Rio de J. 52 (1): 149-153. NT+
1955. Sobre o *Chironomus brasiliensis* Wiedemann, 1828 (Diptera, Chironomidae). – Arq. Mus. Nac. Rio de J. 42: 453-458. NT+
1961. Contribuição para o conhecimento dos gêneros *Clinotanypus* e *Coelotanypus* (Diptera: Chironomidae). – Unpubl. thesis, 74 pp. NT+
1967. Novo gênero de Chironomidae da Amazônia (Insecta, Diptera). – Atas Simpósio Biota Amazônica 5 (Zool.): 417-419. NT+
- & H. Lent 1962. Preliminary notes on chironomid (Diptera) intersexuality induced by *Agamomermis* (Nematoda). – Rev. Bras. Biol. 22 (4): 357-365. NT+
- & M. C. Messias 1989. Sobre uma nova espécie do gênero *Aedokritus* Roback, 1958 (Diptera: Chironomidae). – Mem. Inst. Oswaldo Cruz Rio de J. 84, Suppl. 4: 405-407. NT+
- , -- & A. da Silva-Vasconcelos 1992. On a new neotropical genus of the subfamily Tanypodinae (Diptera, Chironomidae). – Mem. Inst. Oswaldo Cruz Rio de J. 87, Suppl. 1: 161-165. NT+
- , -- & A. R. dos Santos 1995. A new genus and new species of neotropical Orthocladiinae (Diptera, Chironomidae). Pp. 409-412 in: Cranston, P. S. (ed.), Chironomids: From genes to ecosystems, CSIRO. – East Melbourne, VI + 482 pp. NT+
- Oliver, D. R. 1985. Review of *Xylotopus* Oliver and description of *Irisobrillia* n. gen. (Diptera: Chironomidae). – Can. Entomol. 117 (9): 1093-1110. NT+
- & M. E. Dillon 1994. Corrections and additions to "A catalog of Nearctic Chironomidae". – Proc. Entomol. Soc. Wash. 96 (1): 8-10. NT+
- , -- & P. S. Cranston 1990. A catalog of Nearctic Chironomidae. – Agric. Can. Res. Branch, Publ. 1857/B, 89 pp. NT+
- Ortiz, C. S. see: Townes, H. K. 1946. NT+
- Ospina Torres, R. 1992. Die Chironomidenfauna zentral-amazonischer Waldbäche. – Doct. diss., Univ. München, Germany, 2 Vols., 377 + 221 pp. NT+
- Pagast, F. 1947. Systematik und Verbreitung der um die Gattung *Diamesa* gruppierten Chironomiden. – Arch. Hydrobiol. 41: 435-596. NT+
- Paggi, A. C. 1975. Formas imaginales y preimaginales de *Chironomus* (*Dicrotendipes*) *alsinensis* sp. nov. (Diptera, Chironomidae). – Neotrópica (La Plata) 21 (66): 149-156. NT+

- 1977a. Formas imaginales y preimaginales de Quironómidos (Diptera) II. *Parachironomus longistilus* sp. nov. – *Limnobiós* 1 (6): 200-206. NT+
- 1977b. Formas imaginales y preimaginales de Quironómidos (Diptera) III *Chironomus* (s. str.) *domizii* sp. nov. – *Neotrópica* (La Plata) 23 (69): 103-111. NT+
- 1978. Formas imaginales y preimaginales de Quironómidos (Diptera) IV. *Dicrotendipes nestori* sp. nov. – *Limnobiós* 1 (7): 235-241. NT+
- 1979 (“1978”). Dos nuevas especies del género *Parachironomus* Lenz (Diptera, Chironomidae) y nuevas citas de Quironómidos para la República Argentina. – *Physis* Secc. B 38 (94): 47-54. NT+
- 1981. Presencia de *Chunio brasiliensis* Oliveira 1950 (Diptera Chironomidae Orthoclaadiinae) en Puerto Deseado, Argentina. – *Physis*, Secc. A 40 (98): 47-49. NT+
- 1982. Chironomidae de ecosistemas leníticos de la Argentina. Caracteres exosomáticos y genitales de los estadios y estados como base taxonómica (Insecta, Diptera). – Ph.D. diss., Univ. Nacional La Plata, Argentina, 289 pp. NT+
- 1984. Formas imaginales y preimaginales de Quironómidos (Diptera: Tanypodinae). V. *Djalnabatista lacustris* sp. nov. – *Rev. Soc. Entomol. Argent.* 43 (1-4): 75-83. NT+
- 1985a. Two new species of the genus *Chunio* (Diptera: Chironomidae). – *Proc. Entomol. Soc. Wash.* 87 (2): 460-466. NT+
- 1985b. *Thienemanniella desertica* sp. nov. de la República Argentina (Diptera Chironomidae Orthoclaadiinae). – *Neotrópica* (La Plata) 31 (85): 49-53. NT+
- 1986. Quironómidos de la República Argentina II. *Coelotanypus ringueleti* sp. nov. (Diptera Tanypodinae). – *Neotrópica* (La Plata) 32 (86): 139-147. NT+
- 1987. Formas imaginales y preimaginales de Quironómidos (Diptera: Chironominae) VI. *Dicrotendipes pellegriniensis* sp. nov. y *D. embalsensis* sp. nov. – *Limnobiós* 2 (9): 695-706. NT+
- 1988 (“1987 (1985)”). Quironómidos de la República Argentina. I. *Ablabesmyia* (Karelia) *bianulata* sp. nov. (Diptera Tanypodinae). – *Rev. Soc. Entomol. Argent.* 44 (3-4): 329-335. NT+
- 1992. Two new species of genus *Tanytarsus* from Argentina (Diptera, Chironomidae). – *Fragm. Entomol.* 23 (2): 299-306. NT+
- 1993a. Formas imaginales y preimaginales de Quironómidos (Diptera: Chironomidae). VII. *Coelotanypus lobensis* sp. nov. y descripción de la larva y pupa de *C. ringueleti* Paggi, 1986. – *Rev. Soc. Entomol. Argent.* 52 (1-4): 5-12. NT+
- 1993b. Redescription of *Pseudosmittia bilobulata* (Edw.) comb n. (= *Spaniotoma* (*Smittia*) *bilobulata* Edwards 1931) and description of *P. neobilobulata* sp. n. (Diptera: Chironomidae) from Argentina. – *Ann. Limnol.* 29 (2): 171-174. NT+
- Palacios-Vargas, J. G., Llampallas, J. & C. L. Hogue 1982. Preliminary list of the insects and related terrestrial Arthropoda of Socorro Island, Islas Revillagigedo, Mexico. – *Bull. S. Calif. Acad. Sci.* 81 (2): 138-147. NT+
- Palomäki, R. 1987. The Chironomidae of some lakes and rivers in Nicaragua. – *Entomol. Scand. Suppl.* 29: 45-49. NT+
- Pearse, A. S. 1936. Chironomid larvae from Yucatan. P. 151 in: Pearse, A. S., Creaser, E. P. & F. G. Hall, The cenotes of Yucatan. A zoological and hydrological survey. – *Carnegie Inst., Washington*, 304 pp. NT+
- 1938. Insects from Yucatan caves. Pp. 237, 244 in: Pearse, A. S. (ed.), *Fauna of the caves of Yucatan*. – *Carnegie Inst., Washington*. NT+
- Peck, S. B. 1994a. Aerial dispersal of insects between and to islands in the Galápagos archipelago, Ecuador. – *Ann. Entomol. Soc. Am.* 87: 218-224. NT+
- 1994b. Sea-surface (pleuston) transport of insects between islands in the Galápagos archipelago, Ecuador. – *Ann. Entomol. Soc. Am.* 87: 576-582. NT+
- Pérez R., G. & G. Roldán P. 1978. Niveles de contaminación por detergentes y su influencia en las comunidades bénticas del río Rionegro. – *Actual. Biol.* 7 (24): 27-36. NT+
- Pescador, M. L. & W. L. Peters 1987. Revision of the genera *Meridialaris* and *Massartellopsis* from South America (Ephemeroptera: Leptophlebiidae: Atalophlebiinae). – *Trans. Am. Entomol. Soc.* 112: 147-189. NT+
- Philinkova, T. N. & S. I. Belyanina 1993. “The characteristics of two northern species of the genus *Chironomus* (Chironomidae, Diptera)”. [in Russian, with engl. summary] – *Zool. Zhurnal* 72 (10): 113-123
- Philippi, R. A. 1865. Aufzählung der chilenischen Dipteren. – *Verh. Zool.-Bot. Ges. Wien* 15 (4; Abhandl.): 595-782 + 8 pl. NT+
- Picado, C. 1913. Chapitre IV. Biologie et morphologie de quelques animaux broméliques. 1. Chironomidae. Pp. 280-296 in: *Les broméliacées épiphytes considérées comme milieu biologique*. – *Bull. Sci. Fr. Belg., 7e Sér.* 47 (3): 215-360. NT+
- Pinto-Coelho, R. M. 1987. Flutuações sazonais e de curta duração na comunidade zooplancônica do Lago Paranoá, Brasília – DF: Brasil. – *Rev. Bras. Biol.* 47 (1&2): 17-29. NT+
- Platzer, I. 1967. Untersuchungen zur Temperaturadaptation der tropischen Chironomidenart *Chironomus strenskei* [sic!] Fittkau (Diptera). – *Z. Vergl. Physiol.* 54: 58-74. NT+
- Platzer-Schultz, I. 1968a. Zum Problem der Bedeutung des larvalen Hämoglobins für die Atmung der tropischen Chironomide *Chironomus strenskei* Fittkau (Diptera). – *Z. Vergl. Physiol.* 58: 229-240. NT+
- 1968b. Zur Erholungsatmung der Larven von *Chironomus strenskei* Fittkau (Diptera) mit unterschiedlichem Hämoglobingehalt. – *Z. Vergl. Physiol.* 60: 269-274. NT+
- 1970. Zur Atmungsphysiologie verschiedener Entwicklungsstadien von *Chironomus strenskei* Fittkau (Diptera). – *Z. Vergl. Physiol.* 67: 179-185. NT+
- & U. Welsch 1969. Zur Entstehung und Feinstruktur der peritrophischen Membran der Larven von *Chironomus strenskei* Fittkau (Diptera). – *Z. Zellforsch.* 100: 594-605. NT+

- Ratcliffe, B. C. & N. D. Penny 1978. Catálogo dos tipos de invertebrados depositados nas coleções entomológicas do at INPA – Manaus. – Acta Amazonica 8 (4): 689-697. NT+
- Reiss, F. 1972. Die Tanytarsini (Chironomidae, Diptera) Südchiles und Westpatagoniens. Mit Hinweisen auf die Tanytarsini-Fauna der Neotropis. – Stud. Neotrop. Fauna 7: 49-94. NT+
- 1973. Zur Hydrographie und Makrobenthosfauna tropischer Lagunen in den Savannen des Território de Roraima, Nordbrasilien. – Amazoniana 4: 367-378. NT+
- 1974a. Vier neue *Chironomus*-Arten (Chironomidae, Diptera) und ihre ökologische Bedeutung für die Benthosfauna zentralamazonischer Seen und Überschwemmungswälder. – Amazoniana 5: 3-23. NT+
- 1974b. Die in stehenden Gewässern der Neotropis verbreitete Chironomidengattung *Goeldichironomus* Fittkau (Diptera, Insecta). – Stud. Neotrop. Fauna 9: 95-122. NT+
- 1976a. Charakterisierung zentralamazonischer Seen aufgrund ihrer Makrobenthosfauna. – Amazoniana 6: 123-134. NT+
- 1976b. Die Benthoszoozönosen zentralamazonischer Várzeeseen und ihre Anpassungen an die jahresperiodischen Wasserstandsschwankungen. – Biogeographica 7: 125-135. NT+
- 1977a. Qualitative and quantitative investigations on the macrobenthic fauna of Central Amazon lakes. I. Lago Tupé, a black water lake on the lower Rio Negro. – Amazoniana 6: 203-235. NT+
- 1977b. Chironomidae. Pp. 277-280 in: Hurlbert, S. H. (ed.), Biota acuática de Sudamerica austral. – San Diego State Univ., XIV + 342 pp. NT+
- 1977c. The benthic zoocoenoses of central Amazon várzea lakes and their adaptations to the annual water level fluctuations. – Geo-Eco-Trop. 1: 65-75. NT+
- 1981. Chironomidae. Pp. 261-268 in: Hurlbert, S. H., Rodriguez, G. & N. D. Santos (eds.), Aquatic biota of tropical South America, Part I: Arthropoda. – San Diego State Univ., XII + 323 pp. NT+
- 1982. Chironomidae. Pp. 433-438 in: Hurlbert, S. H. & A. Villalobos-Figueroa (eds.), Aquatic biota of Mexico, Central America and the West Indies. – San Diego, California, 529 pp. NT+
- 1984. New faunistic records of Chironomidae from the Zoologischen Staatssammlung, München. – Chironomus 3 (1): 5. NT+
- 1985. Die panamerikanisch verbreitete Tanytarsini-Gattung *Skutzia* gen. nov. (Diptera, Chironomidae). – Spixiana Suppl. (Munich) 11: 173-178. NT+
- 1989. *Pelomus* gen. nov., ein weiterer potamobionter Vertreter des *Harnischia*-Komplexes aus dem Amazonasbecken (Chironomidae, Diptera). – Acta Biol. Debr. Oecol. Hungar. 2: 305-314. NT+
- 1990. Revision der Gattung *Zavrelia* Kieffer, 1920 (Diptera, Chironomidae). – Spixiana (Munich) 13 (1): 83-115. NT+
- & J. E. Sublette 1985. *Beardius* new genus with notes on additional Pan-American taxa (Diptera, Chironomidae). – Spixiana Suppl. (Munich) 11: 179-193. NT+
- Rempel, J. G. 1937. A new species of *Anatopynia* (Dipt., Chironomidae) from Colombia. – Rev. Entomol. 7: 413-416. NT+
- 1939. Neue Chironomiden aus Nordostbrasilien. – Zool. Anz. 127: 209-216. NT+
- Roback, S. S. 1958. Results of the Catherwood Foundation Peruvian Amazon Expedition. A new genus and species of Tendipedini from Peru with some observations on related genera. Diptera, Tendipedidae (=Chironomidae). – Notulae Nat. 304: 1-5. NT+
- 1960. Results of the Catherwood Foundation Peruvian Amazon Expedition. New species of Tendipedidae (Diptera). – Trans. Am. Entomol. Soc. 86: 87-107. NT+
- 1962. Some new Tendipedidae from the Canal Zone. – Notulae Nat. 355: 1-10. NT+
- 1963. New Neotropical *Coelotanytus* (Diptera, Tendipedidae, Pelopiinae). – Entomol. News 74: 169-176. NT+
- 1964a. A new *Pelopis* from Mexico (Diptera: Tendipedidae). – Entomol. News 75 (6): 141-143. NT+
- 1964b. New record of *Coelotanytus cletic* [sic!] Roback (Diptera: Tendipedidae). – Entomol. News 75: 186. NT+
- 1964c. Redescription and new records of *Coelotanytus humeralis* (Loew), (Diptera: Tendipedidae: Pelopiinae). – Notulae Nat. 369: 1-4. NT+
- 1965a. New species and records of *Coelotanytus* from Mexico and Central America with a key to the new world species south of the United States (Diptera: Tendipedidae). – Entomol. News 76: 29-41. NT+
- 1965b. A new subgenus and species of *Symbiocladius* from South America (Diptera: Tendipedidae). – Entomol. News 76: 113-122. NT+
- 1966. The Catherwood Foundation Peruvian-Amazon Expedition. XII. Diptera, with some observations on the salivary glands of the Tendipedidae. – Monogr. Acad. Nat. Sci. Philadelphia 14: 305-375. NT+
- 1970. Podonominae from Ecuador, with notes of the sense organs and pupal respiratory organs (Diptera, Chironomidae). – J. N. Y. Entomol. Soc. 78: 148-169. NT+
- 1971a. The subfamily Tanypodinae in North America (Diptera: Chironomidae). – Monogr. Acad. Nat. Sci. Philadelphia 17: 1-410. NT+
- 1971b. A new record and immature stages of *Chunio brasiliensis* Oliveira, with additional notes on the adults (Chironomidae: Clunioninae). – Notulae Nat. 444: 1-12. NT+
- 1974. The immature stages of the genus *Coelotanytus* (Chironomidae: Tanypodinae: Coelotanypodini) in North America. – Proc. Acad. Nat. Sci. Philadelphia 126 (2): 9-19. NT+
- 1976. The immature chironomids of the Eastern United States. I. Introduction and Tanypodinae – Coelotanypodini. – Proc. Acad. Nat. Sci. Philadelphia 127: 147-201. NT+

- 1977b. The immature chironomids of the Eastern United States. II. Tanypodinae – Tanypodini. – Proc. Acad. Nat. Sci. Philadelphia 128: 55-88. NT+
- 1978. The immature chironomids of the Eastern United States. III. Tanypodinae – Anatopyniini, Macropelopiini and Natarsiini. – Proc. Acad. Nat. Sci. Philadelphia 129: 151-202. NT+
- 1982a. The Tanypodinae (Diptera: Chironomidae) of Australia II. – Proc. Acad. Nat. Sci. Philadelphia 134: 80-112. NT+
- 1982b. Some new *Procladius* (Chironomidae: Tanypodinae) species from Colombia. – Proc. Acad. Nat. Sci. Philadelphia 134: 122-126. NT+
- 1982c. *Naelotanypus viridis*, a new genus and new species of Coelotanypodini (Diptera: Chironomidae: Tanypodinae) from Colombia. – Proc. Acad. Nat. Sci. Philadelphia 134: 135-138. NT+
- 1983. *Ablabesmyia (Sartaia) metica*, a new subgenus and species (Diptera: Chironomidae: Tanypodinae). – Proc. Acad. Nat. Sci. Philadelphia 135: 236-240. NT+
- 1985. The immature chironomids of the Eastern United States. VI. Pentaneurini – Genus *Ablabesmyia*. – Proc. Acad. Nat. Sci. Philadelphia 137 (2): 153-212. NT+
- 1986. The immature chironomids of the Eastern United States. VII. Pentaneurini – Genus *Monopelopia* with redescription of the male adults and description of some Neotropical material. – Proc. Acad. Nat. Sci. Philadelphia 138 (2): 350-365. NT+
- 1987a. The immature chironomids of the Eastern United States. IX. Pentaneurini – Genus *Labrundinia* with the description of some Neotropical material. – Proc. Acad. Nat. Sci. Philadelphia 139: 159-209. NT+
- 1987b. New species of *Labrundinia* from Colombia (Diptera: Chironomidae: Tanypodinae). – Proc. Acad. Nat. Sci. Philadelphia 139: 211-221. NT+
- & W. P. Coffman 1977. New records of probable *Djalmabatista* species from eastern North America and Venezuela (Chironomidae: Tanypodinae). – Proc. Acad. Nat. Sci. Philadelphia 128: 49-54. NT+
- & -- 1983. Results of the Catherwood Bolivian-Peruvian Altiplano Expedition Part II. Aquatic Diptera including montane Diamesinae and Orthocladiinae (Chironomidae) from Venezuela. – Proc. Acad. Nat. Sci. Philadelphia 135: 9-79. NT+
- & R. P. Rutter 1988. *Denopelopia atria*, a new genus and species of Pentaneurini (Diptera: Chironomidae: Tanypodinae) from Florida. – Spixiana Suppl. (Munich) 14: 117-127
- & K.J. Tennesen 1978. The immature stages of *Djalmabatista pulcher* (= *Procladius (Calotanypus) pulcher* (Joh.)). – Proc. Acad. Nat. Sci. Philadelphia 130: 11-20. NT+
- Robins, R. J., Gibson, C. W. D., Kirby, K. J. & S. M. Bunt 1974. Expedition report: Sierra Nevada de Santa Marta, Colombia 1973. – Bull. Oxford Univ. Explor. Club 22: 17-94. NT+
- Robinson, G. S. 1984. Insects of the Falkland Islands: a check list and bibliography. – Brit. Mus. Nat. Hist., London. NT+
- Rosas, I., Mazari, M., Saavedra, J. & A. P. Baez 1984. Benthic organisms as indicators for water quality in lake Patzcuaro, Mexico. – Wat. Air Soil Poll. 25: 401-414. NT+
- Rübsaamen, E. H. 1906. Chironomidae. Pp. 75-85, pl. IV + V in: Exped. Antarct. Belge, Résultats du voyage du S. Y. Belgica en 1897-1898-1899, Rapp. Sci., Zool., Insectes, Diptères. – Impr. Buschmann, Antwerp. NT+
- Sæther, O. A. 1977. Female genitalia in Chironomidae and other Nematocera: morphology, phylogenies, keys. – Bull. Fish. Res. Board Can. 197: 1-209. NT+
- 1981. Orthocladiinae (Chironomidae: Diptera) from the British West Indies with descriptions of *Antillocladius* n. gen., *Lipurometriocnemus* n. gen., and *Diplosmittia* n. gen. – Entomol. Scand. Suppl. 16: 1-46. NT+
- 1982. Orthocladiinae (Diptera: Chironomidae) from SE U.S.A., with descriptions of *Plhudsonia*, *Unniella*, and *Platysmittia* n. genera and *Atelopodella* n. subgen. – Entomol. Scand. 13: 465-510
- 1983. Three new species of *Lopescladius* Oliveira, 1967 (syn. "*Cordites*" Brundin, 1966, n. syn.), with a phylogeny of the *Parakiefferiella* group. – Mem. Am. Entomol. Soc. 34: 279-298. NT+
- 1984. The immatures of *Antillocladius* Sæther, 1981 (Diptera: Chironomidae). – Aquat. Insects 6: 1-6. NT+
- 1985. The imagines of *Mesosmittia* Brundin, 1956, with description of seven new species (Diptera, Chironomidae). – Spixiana Suppl. (Munich) 11: 37-54. NT+
- 1988. *Diplosmittia recisus* spec. nov. from Peru (Diptera: Chironomidae). – Spixiana Suppl. (Munich) 14: 45-47. NT+
- 1990. A revision of the Neotropical types described as *Spaniotoma (Limnophyes)* by Edwards 1931, with the description of *Edwardsidia* gen. nov. (Diptera: Chironomidae). – Entomol. Scand. 21 (3): 305-319. NT+
- 1995. *Metriocnemus* van der Wulp: seven new species, revision of species, and new records (Diptera: Chironomidae). – Ann. Limnol. 31 (1): 35-64. NT+
- & X. Wang 1995. Revision of the genus *Paraphaenocladus* Thienemann, 1924 of the world (Diptera: Chironomidae, Orthocladiinae). – Entomol. Scand. Suppl. 48: 1-69. NT+
- Säwedäl, L. 1981. Amazonian Tanytarsini II [sic!]. *Caladomyia* n. gen. and eight new species (Diptera: Chironomidae). – Entomol. Scand. 12: 123-143. NT+
- 1984. The *cururui*-group of the genus *Stempellinella*. Amazonian Tanytarsini II [sic!]. (Diptera: Chironomidae). – Entomol. Scand. 15: 141-149. NT+
- Savchenko, E. N., Oosterbroek, P. & J. Stary 1992. Family Limoniidae. Pp. 183-369. in: Soós, Á., Papp, L. & P. Oosterbroek (eds.), Catalogue of Palaearctic Diptera, Vol. 1. Trichoceridae–Nymphomyiidae. – Hung. Natl. Mus., Budapest, 520 pp.

- Say, T. 1823. Descriptions of dipterous insects of the United States. *Jb Acad. Nat. Sci. Philadelphia* 3: 9-54, 73-104. NT+.
- Schiner, J. R. 1868. *Diptera* (Subdivisio b. Polyneura. Familie: Chironomidae). Pp. 23-26 + pl. II in: Wüllerstorff-Urbair, B. von, *Reise der österreichische Fregatte Novara*. Zool., Vol. 2, Abt. I, Sect. B. – Wien, 388 pp. NT+
- Schneiberg, A. 1985. Studie zur Morphologie, Systematik und Verbreitung Neotropischer Tanypodinae (Chironomidae, Diptera) auf der Grundlage der Puppenexuvien. – Diploma thesis, Univ. München, Germany, VI + 207 pp. NT+
- Schneider, A. 1885. *Chironomus grimmii* und seine Parthenogenesis. – Zool. Beitr. 1: 301-302
- Schubart, O. 1946. Observações sobre a produtividade biológica das águas de Monte Alegre. A fauna aquática da região. – Bol. Ind. Anim. 8: 22-54. NT+
- Serpa-Filho, A. & S. J. de Oliveira 1992. On a new neotropical species of the genus *Tanytus* Meigen, 1803 (Diptera: Chironomidae, Tanypodinae). – Mem. Inst. Oswaldo Cruz Rio de J. 87, Suppl. 1: 259-262. NT+
- Serrano, M. A. S. & U. Nolte 1996. A sit-and-wait predatory chironomid from tropical Brazil: *Fittkauimyia crypta* n. sp. (Diptera: Chironomidae). – Entomol. Scand. 27 (3): 251-258. NT+
- Serra-Tosio, B. 1977. Deux nouvelles espèces de Diamesinae du Mexique. – Bull. Soc. Entomol. Fr. 82: 99-104. NT+
- Smart, J. 1938. Note on the insect fauna of the bromeliad, *Brochinia micrantha* (Baker) Mez., of British Guiana. – Entomol. Mon. Mag. 74: 198-200. NT+
- Solabarrieta, M. E. & F. H. Weibezahn 1980. Distribución y abundancia de los macroinvertebrados benticos del Lago de Valencia, Venezuela. – Acta Cient. Venez. 34 (1): 34-38. NT+
- Soponis, A. R. 1987. *Paranilothauma* and *Neelamia*, new genera of Chironomini (Diptera: Chironomidae) from Brazil. – Stud. Neotrop. Fauna Environ. 22 (1): 11-24. NT+
- Spies, M. 1991. Zur Systematik der Gattung *Parachironomus* Lenz (Diptera: Chironomidae) in der Neotropis. – Diploma thesis, Univ. München, Germany, 107 +5 pp. NT+
- 1996. Neotropical bibliography and catalog: Announcement of work in progress and call for contributions. – Chironomus 9: 13-20. NT+
- , Fittkau, E. J. & F. Reiss 1994. The adult males of *Parachironomus* Lenz, 1921, from the Neotropical faunal region (Insecta, Diptera, Chironomidae). – Spixiana Suppl. (Munich) 20: 61-98. NT+
- Stone, A. & W. W. Wirth 1947. On the marine midges of the genus *Clunio* Haliday (Diptera: Tendipedidae). – Proc. Entomol. Soc. Wash. 49: 201-224. NT+
- Strickland, A. H. 1945. A survey of the arthropod soil and litter fauna of some forest reserves and cacao estates in Trinidad, British West Indies. – J. Anim. Ecol. 14 (1): 1-11. NT+
- Strixino, G. & S. T. Strixino 1982. Macrobentos da represa do Monjolinho (São Carlos – SP). – Rev. Bras. Biol. 42 (1): 165-170. NT+
- 1984. Macroinvertebrados associados a tapetes flutuantes de *Eichhornia crassipes* (Mart.) Solms, de um reservatório. – An. Sem. Reg. Ecol. 4: 375-397. NT+
- 1985. A temperatura e o desenvolvimento larval de *Chironomus sancticarloi* (Diptera: Chironomidae). – Rev. Bras. Zool. 3 (4): 177-180. NT+
- & S. Trivinho-Strixino 1991. Chironomidae (Diptera) associados a sedimentos de reservatórios: significado dos diferentes povoamentos. – An. Sem. Reg. Ecol. 6: 151-168. NT+
- Strixino, S. T. 1980. Estudos sobre a fecundidade de *Chironomus sancticarloi* sp. n. (Diptera: Chironomidae). – Doct. thesis, Inst. Biociências, Univ. São Paulo, 157 pp. NT+
- & G. Strixino 1982. Ciclo de vida de *Chironomus sancticarloi* Strixino and Strixino (Diptera: Chironomidae). – Rev. Bras. Entomol. 26 (2): 183-189. NT+
- Stuardo O. C. see: Townes, H. K. 1946. NT+
- Stumpp, B. 1993. Die Makrozoobenthosfauna südbrasilianischer Fließgewässer unter besonderer Berücksichtigung der Chironomiden und ihre indikative Bedeutung für Abwasserbelastung am Beispiel von Flüssen im Gebiet des Staates Rio de Janeiro. – Doct. diss., Univ. München, Germany, XIV + 445 pp. NT+
- Sublette, J. E. 1960. Chironomid midges of California. I. Chironomidae, exclusive of Tanytarsini (=Calopsectrini). – Proc. U. S. Natl. Mus. 112: 197-226
- 1964. Chironomid midges of California. II. Tanypodinae, Podonominae, and Diamesinae. – Proc. U. S. Natl. Mus. 115: 85-136
- 1966. Type specimens of Chironomidae (Diptera) in the American Museum of Natural History. – J. Kans. Entomol. Soc. 39 (1): 1-32. NT+
- 1967. Type specimens of Chironomidae (Diptera) in the Cornell University Collection. – J. Kans. Entomol. Soc. 40: 477-564. NT+
- & M. Mulla 1991. *Goeldichironomus amazonicus* (Diptera: Chironomidae), a potentially pestiferous midge recently discovered in California. – Entomol. News 102: 47-49
- & M. Sasa 1994. Chironomidae collected in Onchocerciasis endemic areas in Guatemala (Insecta, Diptera). – Spixiana Suppl. (Munich) 20: 1-60. NT+
- & M. S. Sublette 1973. Family Chironomidae. Pp. 389-422 in: Delfinado, M. & D. E. Hardy (eds.), A catalog of the Diptera of the Oriental region. Vol. I. Suborder Nematocera. – Univ. Press Hawai'i, Honolulu, 618 pp. NT+
- & W. W. Wirth 1972. New genera and species of West Indian Chironomidae (Diptera). – Fla. Entomol. 55: 1-17. NT+
- Syrjämäki, J. 1965. Laboratory studies on the swarming behaviour of *Chironomus strenzkei* Fittkau in litt. (Dipt., Chironomidae). I. Mechanism of swarming and mating. – Ann. Zool. Fenn. 2: 145-152. NT+

- ©Zoology 1967. Laboratory studies on the swarming behaviour of *Chironomus streusketi* Fittkau in litt. (Dipt., Chironomidae). II. Daily rhythm of swarming during artificially changed light intensities. – Ann. Zool. Fenn. 4: 19-28. NT+
- Thienemann, A. & J. J. Kieffer 1916. Schwedische Chironomiden. – Arch. Hydrobiol. Planktonk. Suppl. 2: 483-554
- Tower, W. V. 1912. A study of mosquitoes in San Juan, Porto Rico. – Puerto Rico Agric. Exper. Sta. Circular 14: 1-23. NT+
- Townes, H. K. 1945. The nearctic species of Tendipedini (Diptera, Tendipedidae (=Chironomidae)). – Am. Midl. Nat. 34: 1-206. NT+
- 1946. Tendipedidae (Chironomidae). Pp. 42-47 in: Stuardo Ortiz, C., Catálogo de los Dípteros de Chile. – Imprenta Universitaria, Santiago de Chile. NT+
- Trajan, E. 1987. Fauna cavernícola Brasileira: composição e caracterização preliminar. – Rev. Bras. Zool. 3 (8): 533-561. NT+
- Trivinho Strixino, S. & G. Strixino 1981. Nova espécie do gênero *Chironomus* Meigen do sul do Brasil (Diptera: Chironomidae). – Rev. Bras. Entomol. 25: 333-340. NT+
- Trivinho-Strixino, S. & G. Strixino 1989. Observações sobre a biologia da reprodução de um quironomídeo da região neotropical (Diptera, Chironomidae). – Rev. Bras. Entomol. 33 (2): 207-216. NT+
- & – 1991a. Duas novas espécies de *Nimboecera* Reiss (Diptera, Chironomidae) do Estado de São Paulo, Brasil. – Rev. Bras. Entomol. 35 (1): 173-178. NT+
- & – 1991b. Nova espécie de *Goeldichironomus* Fittkau (Diptera, Chironomidae) do Brasil. – Rev. Bras. Entomol. 35 (3): 593-602. NT+
- & – 1993. Estrutura de comunidade de insetos aquáticos associados à *Pontederia lanceolata* Nuttall [sic!]. – Rev. Bras. Biol. 53 (1): 103-111. NT+
- & – 1995. Larvas de Chironomidae (Diptera) do estado de São Paulo. Guia de identificação e diagnose dos gêneros. – Univ. Fed. São Carlos, II + 229 pp. NT+
- Tucker, R. W. E. 1952. The insects of Barbados. – J. Agric. Univ. Puerto Rico 36: 330-363. NT+
- Turcotte, P. & P. P. Harper 1982a. The macroinvertebrate fauna of a small Andean stream. – Freshwater Biol. 12 (5): 411-419. NT+
- 1982b. Drift patterns in a high Andean stream. – Hydrobiologia 89: 141-151. NT+
- Utermöhl, H. 1958. Zur Gewässertypenfrage tropischer Seen. – Int. Ver. Theor. Angew. Limnol. Verh. 13: 236-241. NT+
- Varela, M. E., Bechara, J. A. & N. L. Andreani 1983. Introducción al estudio del bentos del Alto Paraná. – Ecosur 10: 103-126. NT+
- 1986. El macrobentos y su relación con las fluctuaciones de salinidad en ríos y esteros del Chaco oriental (Argentina). – Ambiente Subtropical 1: 134-147. NT+
- Vargas, L. 1946. *Macropelopia roblesi* (Tendipedidae, Diptera) n. sp. neotropical procedente de Chiapas, Mexico. – Rev. Inst. Salubr. Enferm. Trop. (Mexico) 7: 79-84. NT+
- 1952. *Tendipes* (*Limnochironomus*) *californicus* y *Tendipes* (*Limnochironomus*) *figueroai* n. sp. (Diptera, Tendipedidae). – Rev. Soc. Mex. Hist. Nat. 13: 47-51. NT+
- Vockeroth, J. R. 1949. Taxonomic studies in the Tendipedidae of Mexico (Diptera, Nematocera). – Master's thesis, Univ. Saskatchewan, 64 pp. NT+
- Wais, I. R. 1987. Macrozoobenthos of Negro River Basin, Argentine Patagonia. – Stud. Neotrop. Fauna Environ. 22 (2): 73-91. NT+
- 1990. A checklist of the benthic macroinvertebrates of the Negro River basin, Patagonia, Argentina, including an approach to their functional feeding groups. – Acta Limnol. Bras. 3: 829-845. NT+
- Walker, F. 1837. Descriptions, & c. of the Diptera. Pp. 331-359 in: Curtis, J., Haliday, A. H. & F. Walker, Descriptions, & c. of the insects collected by Captain P. P. King, R.N., F.R.S., in the survey of the Straits of Magellan. – Trans. Linn. Soc. London 17 (3): 315-359. NT+
- 1848. List of the specimens of dipterous insects in the collection of the British Museum. Vol. 1. – Trustees Brit. Mus., London, 229 pp. NT+
- 1856. Insecta Saundersiana. Vol. 1. – J. Van Voorst, London, 474 pp. + 8 pl
- Walker, I. 1986. Experiments on colonization of small water bodies by Culicidae and Chironomidae as a function of decomposing plant substrates and their implications for natural Amazonian ecosystems. – Amazoniana 10 (1): 113-125. NT+
- 1987. The biology of streams as part of Amazonian forest ecology. – Experientia (Basel) 43: 279-287. NT+
- Walley, G. S. 1926. New Canadian Chironomidae. – Can. Entomol. 58: 64-65
- 1934. Chironomidae. Pp. 306-307 + 3 figs. in: Curran, C. H., The Diptera of Kartabo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. – Bull. Am. Mus. Nat. Hist. 66 (3): 287-532. NT+
- Watson, C. N. jr. & M. W. Heyn 1992. A preliminary survey of the Chironomidae (Diptera) of Costa Rica, with emphasis on the lotic fauna. – Nethlds. J. Aquat. Ecol. 26 (2-4): 257-262. NT+
- Weber, C. 1985. *Hypostomus dlouhi* nouvelle espèce de poisson-chat cuirassé du Paraguay (Pisces, Siluriformes, Loricariidae). – Rev. Suisse Zool. 92 (4): 955-968. NT+
- Weyenbergh, H. 1873. Ueber ein zweiköpfiges Monstrum (Larve von *Chironomus*) und über Insecten-Monstren überhaupt. – Stettiner Entomol. Zeitg. 34: 452-458. NT+
- 1874. Sobre un monstruo dicéfalo (larva de *Chironomus*) y sobre monstruos de insectos en general (con fig.). – Periódico Zool. Argent. 1: 50-57. NT+

- ©1875. Revista y enumeración de escritos zoológicos sobre el territorio de Sud-América. -- IV. Escritos sobre dipteros. --
 Periódico Zool. Argent. 1: 313-316. NT+
- 1882. Los habitantes del Río Primero. -- Rius & Becchi, Montevideo, 27 pp., 1 pl. NT+
- 1886. Dipterologische Fragmenten. -- Tijdschr. Entomol. 29: 125-133. NT+
- Wiedemann, C. R. W. 1820. Diptera exotica. -- Kieliae (Kiel), 101 pp. NT+
- 1828. Aussereuropäische zweiflügelige Insekten. Bd. I. -- Hamm, 32 + 608 pp., VII pl. NT+
- Wiedenbrug, S. 1993. Aspectos da estrutura espacial da macrofauna benthica da Lagoa Emboaba, RS. -- Master's thesis, Univ. Federal Rio Grande do Sul, Brazil, 157 pp. NT+
- Wiederholm, T. (ed.) 1983. Chironomidae of the Holarctic region. -- Keys and diagnoses. Part 1. Larvae. -- Entomol. Scand. Suppl. 19: 457 pp. NT+
- 1986. Chironomidae of the Holarctic region. -- Keys and diagnoses. Part 2. Pupae. -- Entomol. Scand. Suppl. 28: 482 pp. NT+
- 1989. Chironomidae of the Holarctic region. -- Keys and diagnoses. Part 3. Adult males. -- Entomol. Scand. Suppl. 34: 532 pp. NT+
- Willassen, E. 1995. *Mapucheptagya brundini* n. gen., n. sp. -- a new Diamesinae from Chile. pp. 437-442 in: Cranston, P. S. (ed.), Chironomidae: From genes to ecosystems. -- CSIRO, East Melbourne, VI + 482 pp. NT+
- Williston, S. W. 1896. On the Diptera of St. Vincent (West Indies). -- Trans. R. Entomol. Soc. London 3: 253-308, pl. VIII-XIV. NT+
- Winder, J. A. 1977. Some organic substrates which serve as insect breeding sites in Bahian cocoa plantations. -- Rev. Bras. Biol. 37 (2): 351-356. NT+
- & P. Silva 1972. Cacao pollination: Microdiptera of cacao plantations and some of their breeding places. -- Bull. Entomol. Res. 61: 651-655. NT+
- Winnertz, J. 1846. Beschreibung einiger neuer Gattungen aus der Ordnung der Zweiflügler. -- Stettiner Entomol. Zeitg. 7: 11-20
- Wirth, W. W. 1947. Notes on the genus *Thalassomyia* [sic!] Schiner, with descriptions of two new species. (Diptera: Tendipedidae). -- Proc. Hawaiian Entomol. Soc. 13: 117-139. NT+
- 1949. A revision of the Clunionine midges with descriptions of a new genus and four new species (Diptera: Tendipedidae). -- Univ. Calif. Publ. Entomol. 8 (4): 151-182. NT+
- 1952. Los insectos de las islas Juan Fernandez. 7. Heleidae and Tendipedidae (Diptera). -- Rev. Chil. Entomol. 2: 87-104. NT+
- 1957. Los insectos de las islas Juan Fernandez. 32. Heleidae and Tendipedidae (Diptera) (Suppl. Report). -- Rev. Chil. Entomol. 5: 399-401. NT+
- 1969. New species and records of Galápagos Diptera. -- Proc. Calif. Acad. Sci., 4th Ser. 36 (20): 571-594. NT+
- 1974. 14. Family Ceratopogonidae. Pp. 14.1-14.89 in: Papavero, N. (ed.), A catalogue of the Diptera of the Americas south of the United States. -- Mus. Zool. Univ. São Paulo
- 1979. *Siolimyia amazonica* Fittkau, an aquatic midge new to Florida with nuisance potential. -- Fla. Entomol. 62: 134-135. NT+
- Woke, P. A. 1947. Arthropods of sanitary importance in the Republic of Nicaragua, Central America. -- Am. J. Trop. Med. 27: 357. NT+
- Wolfhuegel, K. 1930. Contribución al conocimiento de la flora y fauna de la alta Cordillera de Mendoza. -- Buenos Aires, 20 pp. NT+
- Wolcott, G. N. (1948) 1951. The insects of Puerto Rico. -- J. Agric. Univ. Puerto Rico 32: 1-975. NT+
- Woodley, N. E. & D. J. Hilburn 1994. The Diptera of Bermuda. -- Contrib. Am. Entomol. Inst. 28 (2): 1-64. NT+
- Wülker, W., Devai, G. & I. Devai 1989. Computer assisted studies of chromosome evolution in the genus *Chironomus* (Dipt.). Comparative and integrated analysis of chromosome arms A, E and F. -- Acta Biol. Debr. Oecol. Hungar. 2: 373-387. NT+
- & E. Morath 1989. South American *Chironomus* (Dipt.) -- karyotypes and their relations to North America. -- Acta Biol. Debr. Oecol. Hungar. 2: 389-397. NT+
- , Sublette, J. E., Morath, E. & J. Martin 1989. *Chironomus columbiensis* n. sp. in South America and *Chironomus anonymus* Williston in North America -- closely related species. -- Stud. Neotrop. Fauna Environ. 24 (3): 121-136. NT+
- Wulp, F. M. van der 1859. Beschrijving van eenige nieuwe of twijfelachtige soorten van Diptera uit de familie der Nemocera. -- Tijdschr. Entomol. 2: 159-185 + 2 pp. figs
- 1874. Dipterologische Aanteekeningen. -- Tijdschr. Entomol. 17: 109-148
- Zaret, T. M. 1984. Central American limnology and Gatún Lake, Panamá. Pp. 447-465 in: Taub, F. B. (ed.), Lakes and reservoirs, Ecosystems of the World, Vol. 23. -- Elsevier, Amsterdam, XIII + 643 pp. NT+
- Zetterstedt, J. W. 1850. Diptera scandinaviae disposita et descripta [part]. -- Lundae (=Lund), 9: 3367-3710
- Zimsen, E. 1964. The type material of I.C. Fabricius. -- Copenhagen, 656 pp. NT+

4.1 Index

Individual taxa listed below in **boldface italics** are considered **both** to bear non-dubious names **and** to at least possibly occur in the Neotropics. See chapter 2.1 under "Typographics".

Since the catalog contains names of widely differing taxonomic precision, the genus and species name combination in any particular index entry line is not necessarily reliable by itself. Always consult the text page referred to!

Index page numbers given in *italics* refer to an entry in the taxonomic commentary (chapter 2.3).

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General

Art.	(ICZN) Article
coll(s).	collection(s)
des.	designation
ICZN	International Code of Zoological Nomenclature
incl.	including
incorr.	incorrect
jun.	junior
loc.	locality
misid.	misidentifications
orig.	original(ly)
preocc.	preoccupied
prim.	primary
rec.	record
sen.	senior
subseq.	subsequent
var.	variant
ZSM	Zoologische Staatssammlung, München

Life stages

A	unspecified adult
E	egg or egg mass
ex	exuviae
F	adult female
I	unspecified immatures
K	larval karyotype
L	larva
M	adult male
P	pupa
ph	pharate
T	larval tube

World regions

AF	Afrotropical
ANT	Antarctic and subantarctic islands
AU	Australasian and Oceanian
HA	Holarctic
NA	Nearctic
PA	Palaearctic
OR	Oriental