WORLD SPECIES OF BITING MIDGES (DIPTERA: CERATOPOGONIDAE)

ART BORKENT AND WILLIS W. WIRTH

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ABSTRACT

A checklist of all available names of Ceratopogonidae is provided, including author, date of publication, page number of original description, and country or territory of the type locality. All validly named taxa described until December 1995 are included, with many of those named in 1996, and some in 1997 also incorporated. The catalog provides a bibliography of all cited references and is fully indexed.

Newly discovered homonymy generated 24 newly proposed species names. Seven new synonyms of species and one new generic synonym are proposed and two species have new status. Twenty-four new combinations are recognized. One species is transferred to the Chironomidae (Chironominae). A number of further nomenclatural changes and problems are discussed.

Guides are provided for the location of type material of Ceratopogonidae. The number of species in each genus, both extant and fossil, is provided.

INTRODUCTION

As our planet continues to experience a biodiversity crisis and frightening levels of species extinction, it is increasingly important that workers have up-to-date listings of species upon which to base future research decisions. Such catalogs form the basis for understanding the extent of the described fauna and the distribution of higher taxa and they provide a necessary foundation for further systematic studies.

Although regional catalogs and checklists have been previously available for Ceratopogonidae (see listing below), this is the first that provides worldwide coverage since that published by Kieffer (1906a). As a consequence, researchers will now have up-to-date access to all the named taxa in the family and a complete listing of all pertinent taxonomic literature. My hope is that the information presented here will provide a fresh impetus for students of Ceratopogonidae to further enhance our understanding of the systematics of biting midges. Many more species await description and phylogenetic and zoogeographic interpretation is desperately needed for most of the family. The immatures of Ceratopogonidae are particularly poorly known and their future description will provide an excellent basis for testing phylogenetic concepts and be an important source of information on the environmental status of smaller bodies of water and other wet habitats in which so many Ceratopogonidae are found.

I would request that any discovered errors be reported to the author for inclusion in future versions of this catalog. Readers who would like to have this catalog as a computer document should contact the senior author. It is written in WordPerfect 5.0 for IBM compatible computers.

PREVIOUS CATALOGS AND CHECKLISTS

Dipterists are fortunate in having regional catalogs that provide, in concert, worldwide coverage. However, some of these are over 30 years old and, because they are regional, have sometimes failed to consider nomenclaturally important literature from other areas. For example, as a result of compiling this worldwide catalog, 24 previously unrecognized homonyms of valid species were discovered. Virtually all original descriptions were examined firsthand in the compilation of this world catalog and as a result, numerous errors were discovered in earlier catalogs.

The following is a list of catalogs and checklists that will be of use in regional work. In particular, some provide more detailed type locality information and/or further citations of pertinent descriptive literature.

Nearctic Region—Wirth (1965d)
Neotropical Region—Wirth (1974)
Palearctic Region—Remm (1988a, 1988b)
Afrotropical Region—Wirth et al. (1980); de Meillon and Wirth (1991), updating of species lists other than *Culicoides*; Segerman (1996).
Oriental Region—Wirth (1973).
Australasian Region—Debenham (1989).

World Ceratopogonini—Wirth and Grogan (1988).
Fossil taxa—Evenhuis (1994); Borkent (1995).
World List of *Austroconops*, *Leptoconops*, and the *Forcipomyia* subgenera *Lasiohelea* and *Dacnoforcipomyia*—Boorman (1987).
World List of *Culicoides*—Arnaud and Wirth (1964).

The bibliography compiled by Atchley et al. (1981) is an important source for those wanting to locate literature dealing with Ceratopogonidae.

FORMAT AND COVERAGE

Each valid species name is printed in bold, followed by the original author and citation. If the species was described as new in further instances, such citations are given in parentheses following the original citation. The name of the original genus is given, if this differs from its current placement. Instances where species were first described as varieties or subspecies are noted by the statements "as variety of —" or "as subspecies of —", respectively. Synonyms are italicized.

The country of the type locality is provided for each named species. If a territory is not totally independent, the country with which it is associated is named in parentheses, for example, Azores (Portugal). For some larger countries, the province or state is also provided in parentheses. Names of countries follow those given in the Oxford Atlas of the World, 2nd edition, 1993.

For fossil species, the age of the fossil is given after the country of the type locality.

If a given genus was originally described as a subgenus, this is noted by the statement: "as subgenus of —". Subspecies are treated as synonyms but if currently considered to be valid, their status is indicated by the statement "valid subspecies."

The International Code of Zoological Nomenclature (3rd edition) has been followed.

Taxa are arranged phyletically by subfamilies (Borkent, 1995) but genera and species are listed alphabetically thereafter. Synonyms are listed in chronological order. Many of the species in the larger genera of Ceratopogonidae have been placed in subgenera, depending on the geographical region (i.e. *Atrichopogon*, *Dasyhelea*, *Culicoides*, *Bezzia*, *Palpomyia*). The subgeneric groupings in these genera were not used in this catalog because of the difficulty of applying the concepts on a worldwide basis. Subgeneric recognition is only utilized in those genera where it is broadly applicable.

Szadziewski (1996) followed Remm's (1975) suggestion that the Forcipomyiinae and Dasyheleinae be considered as tribes of the Forcipomyiinae. Borkent (1995) indicated that the two taxa are probably sister groups but this was based on only two synapomorphies, both of which are now suspect; Szadziewski (1996) indicated two further character states but these too present difficulties of interpretation (Borkent, in prep.). I consider it premature to change the formal classification of these groups until further evidence is available and have therefore followed the traditional arrangement of two subfamilies. Szadziewski (1996) further considered the fossil genus *Atriculicoides* Remm to represent a new tribe, the Atriculicoidini within the Forcipomyiinae, but such an arrangement is unnecessary if two subfamilies are recognized.

The catalog is complete to at least December, 1995, with many species described in 1996 and some in 1997 included. No nomina nuda have been incorporated.

When two or more synonyms or homonyms have been published in a given year, the information in the references provides a more specific date of publication to allow for establishment of priority. References actually published in a different year than the date shown on the publication itself have the stated date given in parentheses at the end of the citation.

NOMENCLATURAL CHANGES AND STATUS

One consequence of compiling this catalog was the discovery of a number of homonyms. Newly proposed names are in the table below.

Previous name	New name
Atrichopogon armativentris (Kieffer), 1923b	*A. pecteniventris*
Atrichopogon brevipalpis Remm	*A. nanopalpis*
Forcipomyia abdominalis Tokunaga	*F. ventralis*
Forcipomyia flaviventris (Kieffer)	*F. galbiventris*
Forcipomyia paradoxa (Yu and Liu)	*F. gripha*
Forcipomyia monticola (Tokunaga)	*F. neomonticola*
Forcipomyia villosa (Macfie)	*F. reburra*
Dasyhelea formosana Kieffer, 1922b	*D. taiwaniensis*
Dasyhelea major (Malloch)	*D. ampla*
Dasyhelea minuscula Zilahi-Sebess	*D. parva*
Dasyhelea obscura (Winnertz)	*D. septuosa*
Culicoides abdominalis Statz	*C. ventralis*
Culicoides hirtus Xue and Yu	*C. capillosus*
Culicoides niger Tokunaga	*C. coracinus*
Culicoides papillatus Kitaoka and Shinonaga	*C. papilliger*
Brachypogon arcuatus (Remm)	*B. lunatus*
Brachypogon spiniger (Remm)	*B. sentiger*
Ceratopogon crassinervis (Goetghebuer)	*C. naccinervis*
Stilobezzia pruinosa Wirth	*S. hirta*
Sphaeromias punctatus (Meigen)	*S. sparus*
Palpomyia flavoscutellata (Strobl)	*P. helviscutellata*
Palpomyia longicornis (Williston)	*P. tanycornis*
Palpomyia multispinosa Spinelli and Grogan	*P. hispida*
Palpomyia nigrotibialis Remm	*P. aquilotibialis*

Stilobezzia succinea Szadziewski is also a preoccupied name but will be renamed by that author in a future publication. *Alluaudomyia falcata* Knoz and Ratajsky is preoccupied by *A. falcata* de Meillon and Wirth and is to be renamed by John Boorman (in press).

Several new combinations are recognized here because of realignments of some generic concepts: *Forcipomyia bambusa* (Liu and Yu), *Forcipomyia cultella* (Yu and Xiang), *Forcipomyia dandongensis* (Ding and Yu), *Forcipomyia divergena* (Yu and Wen), *Forcipomyia mengi* (Yu and Liu), *Forcipomyia notialis* (Yu and Liu), *Forcipomyia oreita* (Liu and Yu), *Forcipomyia paradoxa* (Yu and Liu), *Forcipomyia parvitas* (Liu and Yu), *Forcipomyia pungobovis* (Yu and Liu), *Forcipomyia quinquedentis* (Yu and Zhou), *Forcipomyia relicta* (Yu and Wen), *Forcipomyia wuyiensis* (Shen and Yu), *Forcipomyia zhenbaodaoensis* (Yu and Liu), *Allohelea tokunagai* (Remm), *Allohelea zherihhini* (Remm), *Brachypogon arcuatus* (Remm), *Brachypogon bilobatus* (Remm), *Downeshelea nubeculosa* (Macfie), *Schizohelea armata* (Remm), *Schizohelea spathulata* (Remm), *Serromyia corinneae* (Gosseries), *Lanatomyia dichroa* (Edwards), and *Mallochohelea borneana* (Macfie).

Study of the following species or their nomenclature required that several synonyms be newly recognized here: *Leptoconops australiensis* (Lee) as a junior synonym of *Leptoconops spinosifrons* (Carter); *Leptoconops leptorhynchus* Chanthawanich and Delfinado as a junior synonym of *Leptoconops siamensis* Carter; *Culicoides pungens* de Meijere as a junior synonym of *Culicoides obscurus* Tokunaga and Murachi, the latter having new status as a valid species; *Culicoides maculatus* (Shiraki) as a junior synonym of *Culicoides tainanus* Kieffer, the latter having new status as a valid species (discovered by R. Szadziewski); *Ceratoculicoides remmi* Gosseries as a junior synonym of *Ceratoculicoides havelkai* Wirth and Grogan; *Serromyia corinneae* (Gosseries) as a junior synonym of *Serromyia nocticolor* Kieffer; *Ceratopogon varipes* Meigen as a junior synonym of *Cer-*

atopogon longicornis Waltl. In addition, *Cryptoscena* Enderlein is a new junior synonym of the subgenus *Euprojoannisia* Brèthes in the genus *Forcipomyia*.

Several taxa previously considered to have been named by Meigen (1838) are now attributed to Waltl (1837a, 1837b). The descriptions given by Waltl are very similar to those by Meigen (1838) and were probably based on the same specimens. The four species described by Waltl (1837a) are arranged in the same order as those in Meigen (1838) with the exception of the third species that is named *Ceratopogon longicornis* by Waltl (1837a) and *Ceratopogon varipes* by Meigen (1838). Both of these two species have the same description indicating that they are synonyms (*C. varipes* is a new synonym).

Volume 128 (1991/92) of the Zoological Record cites names proposed in Khamala's 1968 thesis. If valid, they would all have precedence over the names proposed by Khamala and Kettle (1971). However, the thesis had an extremely limited distribution (probably about six copies; Kettle, personal commun.) and cannot therefore be considered as validating the names (see ICZN Article 8a).

Culicoides arakawai has been spelled differently by various authors. When Arakawa (1910) described this species he attributed the original description to Matsumura but actually published the paper before Matsumura could provide a description. The name of the species was included only in the title of the paper and was spelled *arakanae*. The name was therefore both misspelled and included the wrong suffix (i.e., it was based on the male author's own name).

Ceratopogon libanius de Meillon has been placed in both *Alluaudomyia* and *Brachypogon* by recent reviews (de Meillon and Wirth, 1991; Wirth and Grogan, 1988). I have followed Grogan and de Meillon (1993) who included the species in their key to Afrotropical *Brachypogon*.

Szadziewski (1996) recently transferred *Palaeobrachypogon aquilonius* and *P. macronyx* to *Washingtonhelea* and *Ceratopogon*, respectively, but those changes, based on phenetic arguments, are rejected here in favor of the cladistic evidence provided by Borkent and Grogan (1995) and Borkent (1995).

Chen (1983) provided names for five new species of *Culicoides* in his Ph.D. thesis. Although most theses produced before 1986 cannot be considered as published, Chen's thesis was produced by offset printing and was publicly available. The names for these species are therefore available according to Code Article 8. Chen published four of the same names as new again in 1988.

There has been considerable confusion concerning the correct names for the Nearctic species of *Culicoides* in the "*variipennis* complex," that Wirth and Jones (1957) considered to include five subspecies. Two full species were first formally recognized by Downes (1978) as *C. variipennis* and *C. occidentalis*. As first revisor (see ICZN, article 24), Downes (1978) used the name *C. occidentalis* to represent a group of four of the subspecies that had been previously recognized. As such, the name *C. occidentalis* is the correct name for that species, even though, as pointed out by Wirth and Morris (1985), the name *sonorensis* would have been preferable because it is more widely recognized.

Mayer (1934a: 214) described the larva and pupa of *Atrichopogon trifasciatus globularis*, citing Kieffer as the author of this variety. I was unable to find any previous description by Kieffer or any citation in his later works. Thienemann (1926: 4) also referred to this variety (without any description), suggesting that he saw a previous citation as well. For the present, Mayer must be considered to be the author of *Atrichopogon globularis*.

Lee (1988: 96) provided a description of *Culicoides putianensis* and attributed the name to Chen (1984) (this was K. C. Chen). Apparently the description by Chen was never validly published (T.-S. Lee, C. S. Chen, personal commun.) and the name must, therefore, be attributed to Lee (1988).

Rozkosny et al. (1982) indicated that *Tipula virginea* Preyssler (based on a single female) was a nomen dubium in *Culicoides*. The presence of only six flagellomeres, widely spaced eyes, disproportionately elongate forelegs, and an undivided M wing vein all indicate that the species is actually a member of the Chironominae, to which it is here transferred. The mention of the thorax as

"characteristic of the group" by Rozkosny et al. (1982) is misleading. Many Chironomidae have a mottled or spotted scutum as well. The figure number of *T. virginea* is not clearly identified in Rozkosny et al. (1982); the species is illustrated on plate II, figure 3 (on the lower lefthand corner of the plate).

DIFFICULTIES CONCERNING THE STATUS OF GENERA AND TYPE SPECIES

There has been some confusion about the type species of *Culicoides*. Most workers, without further comment, have considered *Culicoides punctata* Latreille (1809) to be the type species. Remm (1988a) and others, however, have cited *Ceratopogon punctatus* Meigen (1804) as the type. In his original description of the genus, Latreille (1809) included and described only one species, which he named *Culicoides punctata*. Below this description he noted "An *Cerapogon* (sic) *punctatus*, femina, Meigen?" clearly indicating that there was some question in his mind as to whether his *Culicoides punctata* was conspecific with *Ceratopogon punctatus* Meigen. I therefore consider *Culicoides punctata* Latreille to be a validly described species that is here considered to be a junior synonym of *Ceratopogon punctatus* Meigen. It appears that the type specimens of both species are no longer in existence and only the designation of neotypes would definitely establish this synonymy.

Evenhuis (1994) and Borkent (1995) recognized the mention of *Eohelea stridulans* by Petrunkevitch (1956) as being a valid description of a new genus and species. However Petrunkevitch (1956) himself did not name or recognize the taxon as a new genus and species and therefore his description cannot be recognized as a validation of the names under Code Article 13c.

Both the generic names *Forcipomyia* and *Palpomyia* were first published in synonymy with *Ceratopogon* but they are available under ICZN Code Article 11(e). The type species of *Forcipomyia* was validly designated by Westwood (1840) as *Tipula bipunctata* Linnaeus and was an originally included species in *Forcipomyia* through Meigen's (1818: 75) synonymy of *Forcipomyia pictipennis* Meigen with *Ceratopogon bipunctatus* (Linnaeus).

The subgenus *Sensiculicoides* (in *Culicoides*) was first proposed by Shevchenko (1974: 109) but the name was not valid because he failed to designate a type species. The proposal by Shevchenko (1977: 133) validated the name for the first time. Similarly, the description of *Silvaticulicoides* by Glukhova (1972: 214) did not included the designation of a type species and was first validated by Glukhova (1977).

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My wife, Annette, supported this production with love, patience, and finances. I thank her for her faith in the value of systematic work such as this (a rare commodity these days!) and her unflagging kindness in putting up with late hours of pounding on the computer and under the breath grumblings resulting from yet another discovered error.

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Laszlo Papp kindly tracked down the type localities of a number of Kieffer names so that their country of origin could be accurately reported and sent some difficult-to-locate papers. I thank Doug S. Kettle for substantial help in translating the titles of some papers and the type localities of a number of species from their original Russian. Curtis W. Sabrosky graciously provided advice concerning a number of nasty nomenclatural problems. I appreciate the help of Mss. Julie Harvey, Judith Magee,and Lorna Mitchell of the Department of Library and Information Services (BMNH) in sorting out the specific publication dates of a number of papers and determining the full journal names of some difficult abbreviations.

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NUMBERS OF SPECIES OF CERATOPOGONIDAE

Table 1 provides the number of species currently recognized in each genus within the family. As is true of so many insect groups, the number of species yet to be described is large and many are already in collections awaiting description. Unfortunately, the number of systematists working on the group is decreasing and the age profile of those who are currently studying Ceratopogonidae is increasing. There is a desperate need to cultivate a fresh company of young researchers to interpret the diversity of this important family of biting flies.

There are also many names currently considered to be valid that will likely become synonyms. In general, ceratopogonid systematists have worked regionally, and comparison of taxa from various regions will likely uncover species with broad distribution that currently have different names in different areas.

Some older names, although considered valid, cannot be recognized in the current fauna; this is particularly true in the Palearctic Region. There is a definite need for future studies to check original type material or, when these no longer exist, to designate neotypes for these "floating" names.

LOCATION OF TYPE MATERIAL

Some publications that provide information on the location of type material of Ceratopogonidae are listed in table 2. The locations where ceratopogonid workers have deposited most or all of their type material are listed in table 3. The list is not complete; some authors who have described only one or a few species and whose type material could not be located or confirmed were not included. However, the list provides a basis for the study and loan of most type material. Acronyms for museums are those proposed by Arnett and Samuelson (1986) or follow their method for forming acronyms:

ANIC Australian National Insect Collection, Division of Entomology, CSIRO, P.O. Box 1700, Canberra City, A.C.T. 2601, Australia.

ANSP Department of Entomology, Academy of Natural Sciences, 19th and the Parkway, Philadelphia, Pennsylvania, 19103, USA.

BIAR Biologicheskii Institut, Akademiya NAUK Russia, Sibirskoe Otdelenie, Frunze str. 11, 630091 Novosibirsk, Russia.

BMNH Department of Entomology, Natural History Museum, London, SW7 5BD, United Kingdom.

TABLE 1

Number of Validly Named Species Recognized in Each Genus of Ceratopogonidae

Extinct genera are noted with a dagger

Genus	Extant	Extinct	Total
Subfamily Leptoconopinae			
†*Fossileptoconops* Szadziewski		1	1
Leptoconops Skuse	127	6	133
Subfamily Austroconopinae			
†*Archiaustroconops* Szadziewski		1	1
Austroconops Wirth and Lee	1	5	6
†*Lebanoconops* Szadziewski		3	3
†*Minyohelea* Borkent		2	2
Subfamily Forcipomyiinae Lenz			
Atrichopogon Kieffer	391	2	393
†*Atriculicoides* Remm		7	7
Forcipomyia Meigen	877	21	898
†*Protoculicoides* Boesel		2	2
Subfamily Dasyheleinae Lenz			
Dasyhelea Kieffer	466	10	476
Subfamily Ceratopogoninae			
Tribe Culicoidini			
Culicoides Latreille	1210	37	1247
Paradasyhelea Macfie	9		9
Washingtonhelea Wirth and Grogan	1	1	2
Tribe Ceratopogonini			
†*Adelohelea* Borkent		1	1
Afrohelea Wirth	1		1
Allohelea Kieffer	48		48
Alluaudomyia Kieffer	180	1	181
Ankylohelea de Meillon and Wirth	1		1
Austrohelea Wirth and Grogan	7		7
Baeodasymyia Clastrier and Raccurt	1	1	2
Baeohelea Wirth and Blanton	1		1
Bahiahelea Wirth	1		1
Boreohelea Clastrier and Delécolle	1		1
Borkenthelea Spinelli and Grogan	1		1
Bothahelea Grogan and Wirth	3		3
Bothamia Meiswinkel	1		1
†*Brachycretacea* Szadziewski		1	1
Brachypogon Kieffer	120	7	127
Cacaohelea Wirth and Grogan	1		1
Calcarhelea Wirth and Grogan	1		1
Camptopterohelea Wirth and Hubert	5		5
Capehelea de Meillon and Wirth	1		1
Ceratoculicoides Wirth and Ratanaworabhan	6	1	7
Ceratohelea Wirth and Grogan	1		1
†*Ceratopalpomyia* Szadziewski		1	1
Ceratopogon Meigen	41	20	61
Congohelea Wirth and Grogan	1		1
Diaphanobezzia Ingram and Macfie	4		4
Downeshelea Wirth and Grogan	31		31

TABLE 1
(*Continued*)

Genus	Extant	Extinct	Total
Echinohelea Macfie	27		27
†*Eohelea* Petrunkevitch		7	7
Fanthamia de Meillon	14		14
Fittkauhelea Wirth and Blanton	1		1
†*Fossihelea* Szadziewski		2	2
†*Gedanohelea* Szadziewski		3	3
†*Heleageron* Borkent		2	2
Heteroceratopogon Wirth and Grogan	1		1
Heterohelea Clastrier	1		1
Isthmohelea Ingram and Macfie	1		1
Kolenohelea de Meillon and Wirth	18		18
Leptohelea Wirth and Blanton	1		1
Luciamyia de Meillon	1		1
Macrurohelea Ingram and Macfie	14		14
Metacanthohelea Wirth and Grogan	1		1
†*Mantohelea* Szadziewski		2	2
Meunierohelea Szadziewski	1	4	5
Monohelea Kieffer	83	2	85
Nannohelea Grogan and Wirth	4	2	6
Neohelea Clastrier	1		1
Neurobezzia Wirth and Ratanaworabhan	2		2
Neurohelea Kieffer	3	1	4
Notiohelea Grogan and Wirth	2		2
Notoceratopogon de Meillon and Downes	4		4
†*Palaeobrachypogon* Borkent		4	4
Parabezzia Malloch	39		39
Paralluaudomyia Clastrier	1		1
Parastilobezzia Wirth and Blanton	1		1
†*Peronehelea* Borkent		3	3
Pseudostilobezzia Wirth and Ratanaworabhan	1		1
Rhynchohelea Wirth and Blanton	1		1
Schizohelea Kieffer	6		6
Schizonyxhelea Clastrier	2		2
Serromyia Meigen	33	7	40
Sinhalohelea Grogan and Borkent	1		1
Stilobezzia Kieffer	310	6	316
Stiloculicoides Wirth and Grogan	6		6
†*Wirthohelea* Szadziewski		1	1
Tribe Heteromyiini Wirth			
Clinohelea Kieffer	39		39
Heteromyia Say	13	1	14
Medeobezzia Yu	1		1
Metahelea Edwards	2		2
Nemoromyia Yu and Liu	1		1
Pellucidomyia Macfie	8		8
Physohelea Grogan and Wirth	2	1	3
Tetrabezzia Kieffer	6		6
Tribe Sphaeromiini Newman 1834			
Austrosphaeromias Spinelli	2		2
Calyptopogon Kieffer	6		6
Chelohelea Giles and Wirth	1		1

TABLE 1
(*Continued*)

Genus	Extant	Extinct	Total
Crispomyia Debenham	2		2
Dibezzia Kieffer	4		4
Groganhelea Spinelli and Dippolito	1		1
Hebetula Wirth and Debenham	21		21
Homohelea Kieffer	11		11
Indobezzia Das Gupta and Saha	2		2
Jenkinshelea Macfie	20		20
Johannsenomyia Malloch	27		27
Lanatomyia Debenham	3		3
Lanehelea Wirth and Blanton	2		2
Leehelea Debenham	5		5
Mackerrasomyia Debenham	7		7
Macropeza Meigen	23		23
Mallochohelea Wirth	52		52
Neobezzia Wirth and Ratanaworabhan	8		8
Neosphaeromias Das Gupta and Wirth	4		4
Nilobezzia Kieffer	58		58
Niphanohelea Grogan and Wirth	1		1
Probezzia Kieffer	26		26
Sphaerohelea Spinelli and Felippe-Bauer	1		1
Sphaeromias Curtis	30		30
Xenohelea Kieffer	13		13
Tribe Palpomyiini Enderlein			
Amerohelea Grogan and Wirth	11		11
Bezzia Kieffer	266	2	268
Clastrieromyia Spinelli and Grogan	4		4
Pachyhelea Wirth	2		2
Palpomyia Meigen	234	11	245
Phaenobezzia Haeselbarth	29	1	30
Tribe Stenoxenini Coquillett			
Paryphoconus Enderlein	38		38
Stenoxenus Coquillett	20		20
Unplaced genera			
†*Alautunmyia* Borkent		1	1
†*Archiculicoides* Szadziewski		1	1
Didymophleps Weyenbergh	1		1
†*Lebanoculicoides* Szadziewski		1	1
†*Neoculicoides* Pierce		1	1
†*Paraculicoides* Pierce		1	1
Unplaced species	27	7	34
Total	5155	205	5360
Total number of extant genera (including unplaced genus)			103
Total number of fossil genera (including unplaced genera)			22
Total number of genera			125

BPBM Dept of Entomology, Bernice P. Bishop Museum, 1525 Bernice Street, P.O. Box 19000A, Honolulu, Hawaii, 96817 0916, USA.

CASC Department of Entomology, California Academy of Sciences, Golden Gate Park, San Francisco, California, 94118, USA.

CNCI Canadian National Collection of Insects, Eastern Cereal and Oilseed Research Centre, Agriculture Canada, K.W. Neatby Building, Ottawa, Ontario, K1A 0C6, Canada.

CSHC Dr. C. Sahuquillo Herraiz, dr. en Farmacia Entomologo, c/. José Maria Haro, 35, 46022, Valencia, Spain.

CUIC Department of Entomology, Comstock Hall, Cornell University, Ithaca, New York, 14853-0999, USA.

DEFS Departamento de Epidemiologia, Faculdade de Saude Publica, Universidade de São Paulo, Av. Dr. Arnaldo, 715, 01.255, São Paulo, SP, Brazil.

DEIC Deutsches Entomologisches Institut, Schicklerstrasse 3-5, Eberswalde Finow, 1300, Germany.

DPSC Department of Parasitology, Second Military Medical College, Shanghai, China.

ELBU Entomology Laboratory, Department of Zoology, University of Burdwan, Burdwan 713 104, WB, India.

ELKU Entomological Laboratory, Faculty of Agriculture, Kyushu University, Fukuoka, Japan.

EPRL Entomological Pioneering Research Laboratory, University of Puerto Rico, Mayaguez, Puerto Rico, 00708.

FIOC Instituto Oswaldo Cruz, Departamento de Entomologia, Caixa Postal 926, 20010 Rio de Janeiro, Rio de Janeiro, Brasil.

FMMF Lab. Ecol. Med. Pathol. Parasitologie, Faculté de Médecine, Rue Auguste-Broussonet, F-34000, Montpellier, France.

FMNH Insect Collection, Field Museum of Natural History, Roosevelt Road and Lake Shore Drive, Chicago, Illinois, 60605, USA.

HNHM Zoological Dept., Hungarian Natural History Museum, Baross utca 13, H-1088, Budapest, Hungary.

IEME Institute for Evolution, Morphology, and Ecology of Animals, Leninsky pr. 33, Moscow 117071, Russia.

IMBC Department of Vector and Control, Institute of Microbiology and Epidemiology, 23 (A) Qilizhuang Road, Fengtai District, Beijing 100071, People's Republic of China.

IMGP Institut und Museum für Geologie und Palaontologie der Georg-August-Universitat, Göttingen, Germany.

INHS Illinois Natural History Survey Insect Collection, 607 E. Peabody Drive, Champaign, Illinois, 61820, USA.

INMA Departamento de Arthropodologia Sanitaria, Instituto Nacional de Microbiologia, "Dr. Carlos G. Malbran," Avda. Velez Sarfield 563, 1281 Capital Federal, Argentina.

IPCG Institut Pasteur de la Guyane, Cayenne, Guyana.

IPHT Institute of Public Health Research, Teheran, Iran.

IPSF Institut de Parasitologie, Faculté de Médecine, 3, Rue Koeberlé, F 67000, Strasbourg, France.

ISET Laboratorio de Entomologia, Escuela e Instituto de Salubridad y Enfermedades Tropicales, Mexico, D.F., Mexico.

ISNB Collections Nationales Belges d'Insectes et d'Arachnides, Institut Royal des Sciences Naturelles de Belgique, 29, rue Vautier, B1040, Brussels, Belgium.

IZBE Institute of Zoology and Botany, Vanemuise str. 21, Tartu, 202400, Estonia.

IZAS Institute of Zoology, Academia Sinica, 7 Zhongguancun Lu, Haidian, 100080, Beijing, Republic of China.

LACM Los Angeles County Museum of Natural History, 900 Exposition Blvd., Los Angeles, California, 90007, USA.

LEMQ Lyman Entomological Museum and Research Laboratory, Macdonald College, 21111 Lakeshore, Ste.-Anne-de-Bellevue, Quebec, H9X 1C0.

MABC M. Baez, Departamento de Zoologia, Facultad de Biologia, Universidad de La Laguna, 38206 La Laguna, Tenerife Islas Canarias, Spain.

MACN Division Entomologia, Museo Argentino de Ciencias Naturales, Av. Angel Gallardo 470 (C.P. 220, Suc. 5), 1405 Buenos Aires, Argentina.

MCZC Entomology Department, Museum of Comparative Zoology, Harvard University, 26 Oxford St., Cambridge, Massachusetts, 02138, USA.

MEUC Museo Entomologico, Facultad de Agronomia, Universidad de Chile, Casilla 1004, Santiago, Chile.

MLPA Museo de la Plata, Division Entomo-

logia, Universidad de La Palata, Paseo del Bosque, 1900 La Plata, Argentina.

MNHN Museum National d'Histoire Naturelle, 45, rue Buffon, Paris, 75005, France.

MRAC Section d'Entomologie, Musée Royal de l'Afrique Centrale, Leuvensesleenweg 13, B-1980, Tervuren, Belgium.

MZLU Department of Zoology, Zoological Museum, Helgonavägen 3, S-223 62 Lund, Sweden.

MZRF Museo Civico de Storia Naturale "Giacomo Doria", Via Brigita Liguria 9, I-16121, Genoa, Italy.

MZSF Musée Zoologique, Université de Strasbourg, 29, blvd. de la Victoire, F-67000, Strasbourg, France.

MZSP Museu de Zoologia da Universidade de São Paulo, Av. Nazare, 481, C.P. 7172, 01.051, São Paulo, SP, Brazil.

MZWP Museum of the Earth, Al. Na Skarpie 20/26, 00-488, Warsaw, Poland.

NHMW Naturhistorisches Museum Wien, Postfach 417, Burgring 7, 1040 Wien, Austria.

NHRS Sektionen for entomologi, Naturhistoriska Riksmuseet, S-104 05, Stockholm, Sweden.

NIPM Department of Medical Entomology, National Institute of Preventive Medicine, 161 Kunyang Street, Nankang, Taipei, Taiwan, 11513, Republic of China.

NMPC Department of Entomology, National Museum of Natural History, 148 00, Praha 4, Kunratice 1, Czech Republic.

NMSA Natal Museum, 237 Loop Street, Pietermaritzburg 3201, Natal, South Africa.

NSMT Entomological Collections, National Science Museum (Natural History), Hyakunin-cho 3-23-1, Shinjuku-ku, Tokyo 160, Japan.

NYSM New York State Museum, Biological Survey, 2132 Cultural Education Center, Albany, New York, 12230, USA.

NZAC New Zealand Arthropod Collection, Entomology Division, DSIR, Private Bag, Auckland 1001, New Zealand.

NZSI National Zoological Collection, Zoological Survey of India, M-Block, New Alipur, Calcutta 700 053, India.

ORST Services Scientifiques Centraux de l'O.R.S.T.O.M., 70-74 Route d'Aulnay, 93140 Bondy, France.

PEHC P. Havelka, Staatliche Vogelschutzwarte, Baden—Württemberg, Hermann Schneider Allee 47, D-7500 Karlsruhe—Rappenwört, Germany.

PIAM Palaeontological Institute, The Russian Academy of Sciences, Profsoyuznaya, 113, Moscow 117321, Russia.

PMNH Peabody Museum of Natural History, Yale University, New Haven, Connecticut, 06511, USA.

ROME Department of Entomology, Royal Ontario Museum, Toronto, Ontario, M5S 2C6, Canada.

RYSC R. Szadziewski, Department of Invertebrate Zoology, University of Gdansk, Pilsudskiego 46, 81-378 Gdynia, Poland.

SAMR South African Institute for Medical Research, P.O. Box 1038, Johannesburg, 2000, South Africa.

SEMC Snow Entomological Museum, University of Kansas, Lawrence, Kansas, 66044, USA.

SMFD Forschungsinstitut und Naturmuseum Senckenberg, Entomologische Section 1, Senckenberganlage 25, 6000 Frankfurt 1, Germany.

SMSH Stovall Museum of Science and History, University of Oklahoma, Norman, Oklahoma, 73069, USA.

SZRL Systematic Zoology Museum, University of Latvia, Kromvalda bulv. 4, Riga, LV 10, Latvia.

USNM United States National Entomological Collection, Dept. of Entomology, U.S. National Museum of Natural History, Washington, DC 20560, USA.

UZMH Zoological Museum, Finnish Museum of Natural History, University of Helsinki, Pohjoinen Rautatiekatu 13, SF-00100, Helsinki, Finland.

VRIO Veterinary Research Institute, Onderstepoort 0110, Republic of South Africa.

ZMAN Instituut voor Taxonomische Zoologie, Universiteit van Amsterdam, Plantage Middenlaan 64, Amsterdam, The Netherlands.

ZMAS Zoological Institute, Academy of Sciences, Universitetskaya nab., 1, St. Petersburg, 199034, Russia.

ZMHB Museum für Naturkunde der Humboldt Universität zu Berlin, Invalidenstrasse 43, Berlin 1040, Germany.

ZMUC Zoologisk Museum, Universitetsparken 15, DK 2100, Copenhagen, Denmark.

TABLE 2
Sources Listing Type Material of Ceratopogonidae in a Museum or Geographic Area

Museum or Geographical Area	Author
British Museum (BMNH)	Townsend and Boorman (1990)
California Academy of Sciences (CASC)	Arnaud (1979)
Canadian National Collection (CNCI)	Cooper (1991)
University of São Paulo (DEFS)	Forattini et al. (1971)
Deutsches Entomologisches Institut (DEIC)	Blech and Rohlfien (1987)
Illinois Natural History Survey (INHS)	Webb (1980)
Musée Royal de l'Afrique Centrale, Belgium (MRAC)	Kremer et al. (1975)
South African Institute for Medical Research (SAMR)	Segerman (1995)
Snow Entomological Museum (Kansas) (SEMC)	Byers et al. (1962)
Zoological Institute, St. Petersburg (ZMAS)	Glukhova and Brodskaya (1995)
Australasian Region	Debenham (1979)
Philippines	Delfinado and Hardy (1971)

SUBFAMILY LEPTOCONOPINAE NOÈ, 1907: 143

Genus FOSSILEPTOCONOPS Szadziewski

FOSSILEPTOCONOPS Szadziewski, 1996: 46. Type species: *Fossileptoconops lebanicus* Szadziewski, by original designation.

lebanicus Szadziewski, 1996: 47. Lebanon. Lower Cretaceous.

Genus LEPTOCONOPS Skuse

LEPTOCONOPS Skuse, 1889: 288. Type species: *Leptoconops stygius* Skuse, by monotypy.

MYCTEROTYPUS Noè, 1905: 114. Type species: *Mycterotypus bezzii* Noè, designation by Carter, 1921: 3.

PROTERSESTHES Kieffer, 1921h: 107. Type species: *Tersesthes brasiliensis* Lutz, by original designation.

TERSESTHES Townsend, 1893: 370. Type species: *Tersesthes torrens* Townsend, by original designation.

SCHIZOCONOPS Kieffer, 1918a: 135. Type species: *Schizoconops indicus* Kieffer, by monotypy.

Subgenus BRACHYCONOPS Wirth and Atchley

BRACHYCONOPS Wirth and Atchley, 1973: 15 (as subgenus of *Leptoconops*). Type species: *Leptoconops californiensis* Wirth and Atchley, by original designation.

californiensis Wirth and Atchley, 1973: 16. USA (California).

patagoniensis Ronderos, 1990b: 423. Argentina.

Subgenus HOLOCONOPS Kieffer

HOLOCONOPS Kieffer, 1918a: 135. Type species: *Leptoconops kerteszi* Kieffer, by original designation.

MICROCONOPS Kieffer, 1921h: 108. Type species: *Microconops vexans* Kieffer, by original designation.

acer Clastrier, 1973: 911. France.

algeriensis Clastrier, 1975b: 41. Algeria.

altuneshanensis Yu and Shao, *in* Yu, 1988: 129. China.

americanus Carter, 1921: 22 (as variety of *kerteszi*). USA (Utah).

amplifemoralis Chanthawanich and Delfinado, 1967: 298. Nepal.

andersoni Clastrier and Wirth, 1978: 35. USA (California).

arnaudi Clastrier and Wirth, 1978: 29. USA (California).

ascius Yu and Hui, *in* Yu, 1988: 132. China.

asilomar Clastrier and Wirth, 1978: 22. USA (California).

atchleyi Clastrier and Wirth, 1978: 32. USA (California).

auster Clastrier, 1981a: 91. South Africa.
bassoi Ronderos and Spinelli, 1993: 305. Chile.
belkini Wirth and Atchley, 1973: 37. USA (California).
bequaerti (Kieffer), 1925a: 405 (*Holoconops*; as *becquaerti*). Honduras.
hondurensis Hoffman, 1926b: 135. Honduras.
binangulus Yu, 1989b: 97. China.
binisiculus Yu and Liu, *in* Yu, 1988: 131. China.
borealis Gutsevich, 1945: 124. Russia.
popovii Dzhafarov, 1961a: 72. Azerbaijan.
catawbae (Boesel), 1948: 69 (*Holoconops*). USA (Ohio).
chenfui Yu and Xiang, *in* Yu, 1988: 131. China.
conulus Yu and Liu, *in* Liu et al., 1990: 218. China.
dissimilis Clastrier, 1975a: 605. Chad.
doyeni Spinelli and Ronderos, 1993: 115. Mexico.
exspectator Clastrier, 1975b: 39. Algeria.
foleyi Clastrier, 1975b: 33. Algeria.
foulki Clastrier and Wirth, 1978: 38. USA (California).
gallicus Clastrier, 1973: 906. France.
helobius Ma and Yu, *in* Ma et al., 1990: 49. China.
interruptus (Enderlein), 1908: 460 (*Mycterotypus*). Namibia.
kerteszi Kieffer, 1908: 576. Egypt.
knowltoni Clastrier and Wirth, 1978: 26. USA (California).
lacteipennis Kieffer, 1918a: 32. Tunisia.
laosensis Clastrier, 1974b: 71. Laos.
latibulorum Gutsevich, 1973: 259. Kazakhstan.
laurae (Weiss), 1912: 24 (*Mycterotypus*). Tunisia.
mediterraneus (Kieffer), 1921i: 264 (*Holoconops*). Algeria.
linleyi Wirth and Atchley, 1973: 49. USA (Florida).
macfiei Clastrier, 1975b: 28. Egypt.
mellori Clastrier and Boorman, 1987: 293. Bahrain.
montanus Konurbajev, 1965: 134. Kyrgyzstan.
nachitschevanicus Dzhafarov, 1961c: 78. Azerbaijan.
nevilli Clastrier, 1981a: 88. South Africa.
pavlovskyi Dzhafarov, 1961a: 74. Azerbaijan.
peneti (Langeron), 1913: 282 (*Mycterotypus*, as variety of *laurae*). Tunisia.
pugnax Clastrier, 1973: 908. France.
reesi Clastrier and Wirth, 1978: 42. USA (Utah).
rufiventris (Kieffer), 1923a: 658 (*Microconops*). Algeria.
shangweni Xu and Yu, 1989: 276. China.
sublettei Clastrier and Wirth, 1978: 36. USA (Texas).
tarimensis Yu, 1982: 204 (1985: 406). China.
tibetensis Lee, 1978: 115. China.
transversalis (Kieffer), 1921h: 112 (*Holoconops*). Tunisia.
umbellifer Clastrier, 1981a: 93. South Africa.
vargasi Clastrier and Wirth, 1978: 34. Mexico.
vexans (Kieffer), 1921h: 110 (*Microconops*). Algeria.
whitseli Clastrier and Wirth, 1978: 20. USA (California).
xuthosceles Chanthawanich and Delfinado, 1967: 299. Thailand.
yunhsienensis Yu, 1963: 450. China.

Subgenus LEPTOCONOPS Skuse

bezzii (Noè), 1905: 114 (*Mycterotypus*). Italy.
muganicus Dzhafarov, 1962d: 241 (as subspecies of *bezzii*; name in Dzhafarov, 1961a: 67 a nomen nudum). Azerbaijan.
bidentatus Gutsevich, 1960: 127. Russia.
boreus Kalugina, 1991: 78. Russia. Upper Cretaceous.
brasiliensis (Lutz), 1913: 66 (*Tersesthes*). Brazil.
bullsbrookensis Smee, 1966: 1008. Australia (Western Australia).
bundyensis Smee, 1966: 1007. Australia (New South Wales).
camelorum (Kieffer), 1921h: 111 (*Tersesthes*). Algeria.
capensis de Meillon and Hardy, 1953: 24. South Africa.
carteri Hoffman, 1926b: 133. USA (California).
casali Cavalieri and Chiossone, 1966: 45. Argentina.

TABLE 3

Location of Type Material Described by Most Ceratopogonid Systematists

Museums listed hold most or all of the type specimens designated by a given author although many authors have described scattered species held by museums not listed here. All authors who have coauthored with Wirth or Yu have deposited all or most of their material in the depositories given below under these two authors and they are not listed separately.

Author	Museum	Author	Museum
Adams	SEMC	Glukhova	ZMAS
Amossova	ZMAS	Goeldi	BMNH
Arnaud	CASC; USNM	Goetghebuer	ISNB; MRAC
Atchley	USNM	Gornostaeva	ZMAS
Austen	BMNH	Grogan	USNM; CNCI
Barbosa	USNM	Gutsevich	ZMAS
Beck	USNM	Haeselbarth	SAMR; USNM
Becker	ZMHB	Hardy	BPBM
Boesel	PMNH; ROME	Havelka	PEHC
Boorman	BMNH	Heyden	BMNH
Borkent	CNCI	Hoffman	NYSM; USNM
Brèthes	MNHN; MACN	Hogue	LACM
Browne	USNM	Howarth	BPBM
Bujanova	ZMAS	Hubert	USNM
Callot	IPSF	Huttel	FMMF
Carter	BMNH	Ingram	BMNH
Causey	USNM	Jamnback	NYSM
Cavalieri	INMA?	Johannsen	CUIC
Chan	LEMQ; CNCI; USNM	Jones	USNM
Chaudhuri	ELBU	Kalugina	PIAM
Chen	NIPM	Kettle	BMNH
Chu	DPSC	Khalaf	SMSH; BMNH
Clastrier	MNHN	Khamala	BMNH
Cochrane	USNM	Kieffer	HNHM; DEIC; BMNH; MNHN[b]
Coquillett	USNM		
Cornet	IPSF; ORST	Kitaoka	NSMT
Das Gupta	NZSI	Knab	USNM
Debenham	ANIC[a]	Knausenberger	USNM
Delécolle	MZSF	Kremer	MNHN
Delfinado	USNM; FMNH	Krivosheina	IEME
de Meijere	ZMAN	Lane, J.	DEFS; BMNH
de Meillon	SAMR; NMSA; USNM	Lane, R. P.	BMNH
Dessart	MRAC	Lee, D. J.	ANIC; SPUS
Dow	USNM; CNCI	Lee, T.-S.	IZAS
Downes	CNCI	Lewis	USNM
Dzhafarov	ZMAS	Lien	NIPM
Edwards	BMNH	Linnaeus	contact BMNH; NHRS
Enderlein	ZMHB	Loew	MCZC; IMGP; ZMHB
Ewen	CNCI	Lutz	FIOC; BMNH
Fabricius	ZMUC	Macfie	BMNH
Felippe-Bauer	FIOC	Macquart	MNHN
Floch	IPCG	Malloch	INHS; SEMC
Foote	USNM	Mayer	DEIC; PEHC
Forattini	MZSP	McDonald	NIPM
Fox	EPRL	Meigen	MNHN
Garrett	CNCI	Meiswinkel	VRIO
Giles	USNM	Meunier	IMGP
Gimmerthal	SZRL	Mirzaeva	BIAR; ZMAS
Glick	USNM	Molotova	ZMAS

TABLE 3
(*Continued*)

Author	Museum	Author	Museum
Navai	IPHT; USNM	Spinelli	MLPA; USNM
Neveu	MNHN; personal collection	Staeger	ZMUC
Nielsen	ZMUC	Statz	LACM
Ortiz	EPRL	Strobl	ZMHB
Pappas	USNM	Storå	UZMH
Petrunkevitch	ZMUC	Szadziewski	RYSC; MZWP
Philippi	MEUC	Thomsen	CUIC
Pierce	LACM	Tokunaga	BPBM; ELKU; USNM; CASC
Remm	IZBE		
Roback	ANSP	Tonnoir	NZAC
Root	USNM	Townsend	SEMC
Rondani	MZRF	Vargas	ISET
Ronderos	MLPA	Vimmer	NMPC
Sahuquillo	CSHC	Wada	NSMT
Santos Abreu	MABC	Walker	BMNH
Saunders	CNCI; USNM	Wiedemann	NHMW; ZMUC
Séguy	MNHN	Williams	USNM
Sen	NZSI	Williston	SEMC; BMNH
Shannon	INMA	Winnertz	NHMW; SMFD; ZMHB
Shevchenko	ZMAS	Wirth (and coauthors)	USNM; CASC; CNCI; BMNH[c]
Skuse	ANIC		
Smatov	ZMAS	Yu (and coauthors)	IMBC
Smee	SPUS	Zetterstedt	MZLU

[a] Specimens originally recorded as deposited in SPHTM now in ANIC.
[b] Many destroyed or lost.
[c] Scattered specimens in many other museums.

caucasicus Gutsevich, 1953: 235. Azerbaijan.
chilensis Forattini, 1958: 38. Chile.
chinensis Sun, 1968: 2. China.
copiosus Borkent, 1996: 3. USA (New Jersey). Upper Cretaceous.
curvachelus Borkent, 1996: 7. USA (New Jersey). Upper Cretaceous.
demeilloni Clastrier and Nevill, 1984: 245. South Africa.
endialis Smee, 1966: 1010. Australia (Northern Territory).
flaviventris Kieffer, 1918a: 34. Tunisia.
freeborni Wirth, 1952a: 115. USA (California).
fretus Yu and Zhan, *in* Wang et al., 1990: 74. China.
golanensis Clastrier, 1981c: 31. Israel.
grandis Carter, 1921: 12. Australia (Western Australia).
halophilus Smee, 1966: 1010. Australia (Western Australia).
harrisoni de Meillon and Hardy, 1953: 22. South Africa.
hyalinipennis Kieffer, 1918a: 33. Tunisia.
indicus (Kieffer), 1918a: 135 (*Schizoconops*). India.
irritans (Noè), 1905: 118 (*Mycterotypus*). Italy.
longipalpis (Kieffer), 1923a: 657 (*Microconops*). Algeria.
inopinatus Huttel and Huttel, 1952b: 45. France.
kinmenensis Lien, Lin, Weng and Chin, 1996: 32. Taiwan.
lisbonnei Harant and Galan, 1944: 170. France.
longicornis Carter, 1921: 11. Australia (Western Australia).
lucidus Gutsevich, 1964: 192. Kazakhstan.
mackerrasae Smee, 1966: 1006. Australia (Queensland).
melanderi Wirth and Atchley, 1973: 27. USA (Washington).

mesopotamiensis (Patton), 1920: 245 (*Tersesthes*). Iraq.
minutus Gutsevich, 1973: 249. Turkmenistan.
mohavensis Wirth and Atchley, 1973: 29. USA (California).
montigenus Clastrier, 1981b: 123. Israel.
nicolayi de Meillon, 1937b: 330. Zaire.
nigripes Dzhafarov, 1961a: 68. Azerbaijan.
nipponensis Tokunaga, 1937a: 262. Japan.
oshimaensis Takaoka and Hayashi, 1977: 385. Japan.
nivalis Smee, 1966: 1012. Australia (New South Wales).
noei Clastrier and Coluzzi, 1973: 59. Italy.
obscurus Smee, 1966: 1014. Australia (New South Wales).
panamensis Ronderos and Spinelli, 1993: 308. Panama.
parvichelus Chanthawanich and Delfinado, 1967: 297. Malaysia.
petrocchiae Shannon and Del Ponte, 1927: 734. Argentina.
primaevus Borkent, 1995: 30. Canada (Alberta). Upper Cretaceous.
rhodesiensis Carter, 1921: 14. Zambia.
ricardoi Ronderos and Spinelli, 1992: 43. Argentina.
riverinaensis Smee, 1966: 1009. Australia (Australian Capital Territory).
siamensis Carter, 1921: 20. Thailand.
leptorhynchus Chanthawanich and Delfinado, 1967: 295. Malaysia. **NEW SYNONYM.**
maai Tokunaga, 1963a: 214. Indonesia.
sibericus Szadziewski, 1996: 49. Russia. Upper Cretaceous.
smeei Wirth and Atchley, 1973: 22. New name for *longipalpis*.
longipalpis Smee, 1966: 1007 (preoccupied by *Leptoconops longipalpis* (Kieffer), 1923a). Australia (Western Australia).
stygius Skuse, 1889: 288. Australia (New South Wales).
succineus Szadziewski, 1988: 233. Denmark. Eocene.
torrens (Townsend), 1893: 371 (*Tersesthes*). USA (New Mexico).
venezuelensis Ortiz, 1952a: 165. Venezuela.
wehaiensis Yu and Xue, *in* Yu, 1988: 133. China.
woodhilli Lee, 1948a: 334. Australia (Northern Territory).

Subgenus MEGACONOPS Wirth and Atchley

MEGACONOPS Wirth and Atchley, 1973: 18 (as subgenus of *Leptoconops*). Type species: *Leptoconops floridensis* Wirth, by original designation.

floridensis Wirth, 1951c: 282. USA (Florida).

Subgenus PROLEPTOCONOPS Clastrier

PROLEPTOCONOPS Clastrier, 1974a: 231 (as subgenus of *Leptoconops*). Type species: *Leptoconops hutsoni* Clastrier, by original designation.

aviarum Gutsevich, 1973: 245. Tajikistan.
bahreinensis Clastrier and Boorman, 1987: 297. Bahrain.
dixi de Meillon, 1936: 141. Namibia.
fuscipennis Clastrier, Rioux and Descous, 1961: 93. Chad.
hutsoni Clastrier, 1974a: 232. Algeria.
turkmenicus Molotova, 1967: 627. Turkmenistan.
werneri Wirth and Atchley, 1973: 34. USA (California).

Subgenus STYLOCONOPS Kieffer

STYLOCONOPS Kieffer, 1921h: 107. Type species: *Leptoconops albiventris* de Meijere, by original designation.
ACANTHOCONOPS Carter, 1921: 24. Type species: *Acanthoconops spinosifrons* Carter, by original designation.

albiventris de Meijere, 1915: 98. Indonesia.
spinosipes Kieffer, 1917a: 190. Papua New Guinea.
hamariensis Herzi and Sabatini, 1983: 68. Somalia.
mooloolabaensis (Smee), 1966: 1021 (*Styloconops*). Australia (Queensland).
myersi (Tonnoir), 1924: 443 (*Acanthoconops*). New Zealand.
pseudosetosifrons (Smee), 1966: 1023 (*Styloconops*). Australia (Northern Territory).
setosifrons (Smee), 1966: 1022 (*Styloconops*). Australia (Queensland).

spinosifrons (Carter), 1921: 24 (*Acanthoconops*). Tanzania.
australiensis (Lee), 1948a: 337 (*Styloconops*). Australia (New South Wales). **NEW SYNONYM.**
luteigaster (Senior-White), 1929: 1 (*Tersesthes*). India.
yalongensis Yu and Wang, *in* Yu, 1988: 133. China.

SUBFAMILY AUSTROCONOPINAE BORKENT, WIRTH AND DYCE, 1987: 588

Genus ARCHIAUSTROCONOPS Szadziewski

ARCHIAUSTROCONOPS Szadziewski, 1996: 34. Type species: *Archiaustroconops ceratoformis* Szadziewski, by original designation.

ceratoformis Szadziewski, 1996: 34. Lebanon. Lower Cretaceous.

Genus AUSTROCONOPS Wirth and Lee

AUSTROCONOPS Wirth and Lee, 1958: 337. Type species: *Austroconops mcmillani* Wirth and Lee, by original designation.

borkenti Szadziewski and Schlüter, 1992: 78. France. Upper Cretaceous.
cretaceous Szadziewski, 1996: 36. Lebanon. Lower Cretaceous.
fossilis Szadziewski, 1996: 38. Lebanon. Lower Cretaceous.
gondwanicus Szadziewski, 1996: 38. Lebanon. Lower Cretaceous.
mcmillani Wirth and Lee, 1958: 337. Australia (Western Australia).
sibericus Szadziewski, 1996: 40. Russia. Upper Cretaceous.

Genus LEBANOCONOPS Szadziewski

LEBANOCONOPS Szadziewski, 1996: 40. Type species: *Lebanoconops lebanicus* Szadziewski, by original designation.

lebanicus Szadziewski, 1996: 42. Lebanon. Lower Cretaceous.
minutus Szadziewski, 1996: 43. Lebanon. Lower Cretaceous.
wirthi Szadziewski, 1996: 44. Lebanon. Lower Cretaceous.

Genus MINYOHELEA Borkent

MINYOHELEA Borkent, 1995: 68. Type species: *Minyohelea pumilis* Borkent, by original designation.

pumilis Borkent, 1995: 69. Canada (Alberta). Upper Cretaceous.
schleei Szadziewski, 1996: 45. Lebanon. Lower Cretaceous.

SUBFAMILY FORCIPOMYIINAE LENZ, 1934: 96

Genus ATRICHOPOGON Kieffer

ATRICHOPOGON Kieffer, 1906a: 53 (as subgenus of *Ceratopogon*). Type species: *Ceratopogon exilis* Coquillett (= *Ceratopogon levis* Coquillett), designation by Coquillett, 1910: 512.
KEMPIA Kieffer, 1913d: 162, 179 (as subgenus of *Dasyhelea*). Type species: *Dasyhelea calcuttensis* Kieffer, designation by Wirth, 1952a: 117.
GYMNOHELEA Kieffer, 1921h: 115. Type species: *Kempia longiserrus* Kieffer, designation by Wirth, 1973: 348.
DOLICHOHELEA Edwards, 1929b: 8. Type species: *Dolichohelea polita* Edwards, by monotypy.
LOPHOMYIDIUM Cordero, 1929: 94. Type species: *Lophomyidium uruguayense* Cordero, by original designation.
PSILOKEMPIA Enderlein, 1936: 49. Type species: *Kempia appendiculata* Goetghebuer, by monotypy.
MELOEHELEA Wirth, 1956b: 16 (as subgenus of *Atrichopogon*). Type species:

Atrichopogon meloesugans Kieffer (= *Atrichopogon winnertzi* Goetghebuer), by original designation.

PSAMMOPOGON Remm, 1979b: 57 (as subgenus of *Atrichopogon*). Type species: *Atrichopogon trifasciata* Kieffer (= *Atrichopogon flavolineatus* Strobl), by original designation.

ROSTROPOGON Remm, 1979b: 57 (as subgenus of *Atrichopogon*). Type species: *Ceratopogon rostratus* Winnertz, by original designation.

abrasus Edwards, 1928: 52. Western Samoa.
abyssiniae Kieffer, 1918a: 44. Ethiopia.
acanthocolpus Ingram and Macfie, 1922: 260. Nigeria.
acosmetus Ingram and Macfie, 1922: 263. Ghana.
adamsoni Macfie, 1937a: 4. Trinidad and Tobago.
aethiops (Goetghebuer), 1920: 33 (*Kempia*). Belgium.
africanus Ingram and Macfie, 1921: 334. Ghana.
akizukii Tokunaga, 1940b: 274 (as *akisukii*). Russia.
alainus Remm, 1980: 110. Kyrgyzstan.
albinensis Ingram and Macfie, 1931a: 228. Argentina.
albiscapulus Kieffer, 1918a: 42. Algeria, Tunisia.
bilineatus Kieffer, 1922g: 498. Algeria.
alticola (Kieffer), 1911b: 323 (*Forcipomyia*). India.
altivolans Macfie, 1949: 113. Mexico.
alveolatus Nielsen, 1951: 26. Denmark.
anemotis Kieffer, 1913e: 7. Kenya.
annulifemoratus Tokunaga, 1959: 190. Papua New Guinea.
appendiculatus (Goetghebuer), 1920: 37 (*Kempia*). Belgium.
adjacens (Kieffer), 1924b: 401 (*Kempia*, as variety of *appendiculatus*). France.
archboldi Wirth, 1994a: 27. USA (Florida).
arciforceps Tokunaga, 1941a: 110. Micronesia.
arcticus (Coquillett), 1900: 396 (*Ceratopogon*). USA (Alaska).
argus Kieffer, 1916a: 86. Taiwan.
armaticaudalis Tokunaga and Murachi, 1959: 131. Micronesia.
armatilabrum Clastrier, 1987b: 211. New Caledonia (France).
armativentris (Kieffer), 1923a: 673 (*Kempia*). Algeria.
assuetus Macfie, 1934c: 185 (1934d: 212). Malaysia.
aterrimus Kieffer, 1913d: 178. India.
atratus Kieffer, 1917a: 184. Australia (New South Wales).
atribarbus Kieffer, 1922c: 232. Germany.
atricollis (Goetghebuer), 1935d: 163 (*Kempia*). Zaire.
atriscapulus Kieffer, 1918a: 45. Tunisia.
atromaculatus Goetghebuer, 1933b: 111. Russia.
atroscutellatus Edwards, 1928: 53. Western Samoa.
attentus Johannsen, 1932: 416. Indonesia.
auricoma Kieffer, 1917b: 300. Colombia.
australis Clastrier, 1987b: 200. New Caledonia (France).
badiensis Clastrier, 1959b: 354. Senegal.
bai Remm, 1980: 114. Turkmenistan.
bakeri Macfie, 1939a: 88. Uganda.
balseiroi Spinelli, 1982: 206. Argentina.
bangqiensis Yan, Zhang and Yu, 1996: 100. China.
bargaensis Remm, 1972: 70. Russia.
bellicosus Debenham, 1973: 74. Papua New Guinea.
bicolor Wirth and Ratanaworabhan, 1993: 328. Malaysia.
bifasciatus Kieffer, 1917a: 181. Papua New Guinea.
bifidus Ewen, *in* Ewen and Saunders, 1958: 694. Brazil.
biangulus Yan, Zhang and Yu, 1996: 96. China.
biroi Kieffer, 1917a: 182. Papua New Guinea.
bisetosus (Goetghebuer), 1933e: 137 (*Kempia*). Zaire.
boharti Tokunaga, 1962a: 159. Japan.
borkenti Wirth, 1994a: 25. Canada (British Columbia).
brasiliensis Macfie, 1939c: 184. Brazil.
brevicellula Kieffer, 1921b: 8. Cameroon.
brevicornis Tokunaga, *in* Tokunaga and Murachi, 1959: 138. Belau (USA).
brevifurca Goetghebuer, 1948b: 10. Zaire.
brevipalpis Macfie, 1944b: 298. Trinidad and Tobago.

breviserrus (Kieffer), 1924b: 400 (*Kempia*). France.
brevistilus Kieffer, 1913d: 178. India.
briani de Meillon, 1961: 45. Madagascar.
brunnescens Statz, 1944: 141. Germany. Oligocene.
brunnicellula Clastrier, 1959b: 366. Senegal.
brunnipes (Meigen), 1804: 29 (*Ceratopogon*). Europe.
longinervis Kieffer, 1919a: 28 (as variety of *orbicularis*). Romania, Slovak Republic.
semiensis Remm, 1972: 68. Russia.
bullus Remm, 1980: 114. Turkmenistan.
calcuttensis (Kieffer), 1913d: 181 (*Dasyhelea*). India.
callipotami Macfie, 1924: 65. Egypt.
caribbeanus Ewen, *in* Ewen and Saunders, 1958: 683. Trinidad and Tobago.
carinatus Wirth and Ratanaworabhan, 1992: 271. Malaysia.
casali Cavalieri and Chiossone, 1973: 153. Argentina.
celibatus Ingram and Macfie, 1923: 48. South Africa.
characopodus (Speiser), 1910: 749 (*Helea*). Tanzania.
chazeaui Clastrier, 1987b: 199. New Caledonia (France).
chrysosphaerotus Ingram and Macfie, 1921: 337. Ghana.
citrinipes Kieffer, 1922b: 154. Taiwan.
clavator Debenham, 1973: 73. Papua New Guinea.
clavifuscus Tokunaga, 1940b: 275. Japan.
columbianus Kieffer, 1917b: 303. Colombia.
conglomeratus Kieffer, 1921b: 8. Cameroon.
conspicuus Clastrier, Rioux and Descous, 1961: 54. Chad.
coracinus Kieffer, 1917a: 184. Australia (New South Wales).
corpulentus Ewen, *in* Ewen and Saunders, 1958: 681. Canada (British Columbia).
costalis Macfie, 1939c: 179. Brazil.
costaricae Macfie, 1953: 98. Costa Rica.
cretensis Kieffer, 1919a: 28 (as variety of *orbicularis*). Greece.
crinitus Ewen, *in* Ewen and Saunders, 1958: 717. Canada (British Columbia).
cryptogamus Macfie, 1939c: 182. Brazil.
curtipalpis (Kieffer), 1923b: 136 (*Kempia*). Indonesia.
daleyae Giles and Wirth, 1984: 210. Viet Nam.
dekeyseri Clastrier, 1959b: 357. Senegal.
delpontei Cavalieri and Chiossone, 1972: 121. Argentina.
densiplumus Kieffer, 1918a: 41. Tunisia.
depilis Macfie, 1939c: 178. Brazil.
deyrupi Wirth, 1994a: 26. USA (Florida).
didymothecae Macfie, 1953: 99. Costa Rica.
dilutus Johannsen, 1932: 417. Indonesia.
discors Macfie, 1934c: 189. Malaysia.
distictus Kieffer, 1918a: 43. South Africa.
domizii Spinelli, 1982: 201. Argentina.
dorsalis Tokunaga, 1940b: 273. Japan.
downesi Wirth, 1980: 129. USA (West Virginia).
dubius Nielsen, 1951: 25. Denmark.
echinodes Macfie, 1939c: 194. Brazil.
edentatus Remm, 1972: 67. Russia.
edwardsi Macfie, 1934c: 184 (1934d: 208). Malaysia.
elektrophaeus Ingram and Macfie, 1921: 335. Ghana.
eocenicus Szadziewski, 1988: 223. Poland. Eocene–Lower Oligocene.
epicautae Wirth, 1956b: 21. USA (Arizona).
eucnemus Macfie, 1939c: 185. Brazil.
ezoensis Tokunaga, 1940b: 268. Japan.
falcatus Boesel, 1973: 214. USA (Michigan).
falcis de Meillon and Wirth, 1981c: 571. South Africa.
farri Wirth, 1956b: 22. USA (Massachusetts).
femoralis Tokunaga, 1940b: 264. Japan.
fenestriscutum Tokunaga and Murachi, 1959: 125. Micronesia.
fiebrigi Kieffer, 1917b: 302. Paraguay.
fimbriatus Macfie, 1939c: 194 (as variety of *gordoni*). Brazil.
fitzroyi Macfie, 1932c: 34. New Zealand.
flavenicruris Tokunaga and Murachi, 1959: 135. Micronesia.
flavens Tokunaga, 1940b: 266. Japan.
flaveolus Zilahi-Sebess, 1936a: 201, 204. Hungary.
flavicaudae Macfie, 1939c: 181. Brazil.
pilosior Macfie, 1939c: 182 (as variety of *flavicaudae*). Brazil.
flaviceps Kieffer, 1912a: 28. Taiwan.
flavidus Kieffer, 1921g: 562. Philippines.

flavipalpis Kieffer, 1913d: 175. India.
flavipes Lutz, 1914: 90. Brazil.
flavipluma Remm, 1993: 197. Russia.
flaviscapus Remm, 1971: 194. Russia.
flaviscutellum Tokunaga, 1940b: 277. Japan.
flavitarsatus (Becker), 1903: 74 (*Ceratopogon*). Egypt.
flavitergum Tokunaga, 1959: 187. Papua New Guinea.
flavolineatus (Strobl), 1880: 52 (*Ceratopogon*). Austria.
trifasciatus Kieffer, 1918a: 90. Turkey, Greece, Hungary, Slovak Republic, Romania.
flavus Ewen, *in* Ewen and Saunders, 1958: 697. Canada (Saskatchewan).
flumineus Macfie, 1935a: 52. Brazil.
forcipatus (Winnertz), 1852: 30 (*Ceratopogon*). Germany.
hamifer (Goetghebuer), 1920: 38 (*Kempia*). Belgium.
formosanus Kieffer, 1918a: 89. Taiwan.
fulvipes Remm, 1972: 71. Turkmenistan.
fulviscutellaris Tokunaga, 1959: 192. Papua New Guinea.
fulvus Macfie, 1934c: 186. Malaysia.
fusciscutellum Wirth and Ratanaworabhan, 1993: 324. Malaysia.
fusculus (Coquillett), 1901a: 605 (*Ceratopogon*). USA (New Jersey).
polydactylus Nielsen, 1951: 27. Denmark.
fuscus (Meigen), 1804: 28 (*Ceratopogon*). Europe.
fuscipes (Zetterstedt), 1850: 3644 (*Ceratopogon*). Denmark.
fossicola Kieffer, 1922c: 234. Germany.
fusinervis (Malloch), 1915a: 308 (*Ceratopogon*). USA (Illinois).
geminus Boesel, 1973: 211. USA (Ohio).
gillipaludosus Remm, 1993: 198. Russia.
gilvus (Coquillett), 1905: 62 (*Ceratopogon*). USA (Florida).
glaber Macfie, 1935a: 50. Brazil.
glabricollis (Waltl), 1837a: 279 (*Ceratopogon*). Germany.
globosus Kieffer, 1918a: 45. Ethiopia.
globularis Mayer, 1934d: 214 (as variety of *trifasciatus*). Sweden.
globulifer Macfie, 1939c: 191. Brazil.
gordoni Macfie, 1938: 164. Trinidad and Tobago.
gressitti Tokunaga, *in* Tokunaga and Murachi, 1959: 137. Micronesia.
greyi Macfie, 1932c: 35. New Zealand.
griseolus (Zetterstedt), 1855: 4865 (*Ceratopogon*). Sweden.
majusculus Remm, 1961b: 920. Estonia.
guianensis Macfie, 1940b: 184. Guyana.
haemorrhoidalis Kieffer, 1921g: 560. Taiwan.
haesitans (Kieffer), 1922c: 234 (*Gymnohelea*). Germany.
harpagonum Macfie, 1934c: 184 (1934d: 208). Malaysia.
harrisi Macfie, 1938: 163. Trinidad and Tobago.
helles de Meillon and Wirth, 1983a: 350. South Africa.
hesperius Ingram and Macfie, 1922: 266. Ghana.
hexastichus Nielsen, 1951: 27. Denmark.
hirsutipennis Ingram and Macfie, 1923: 49. South Africa.
helion de Meillon, 1936: 177. South Africa.
hirtidorsum Remm, 1961b: 922. Estonia.
hispaniae Havelka, 1979: 58. Spain.
hobsoni Macfie, 1932c: 32. New Zealand.
homoius Ingram and Macfie, 1921: 338. Ghana.
alfierii Kieffer, 1925e: 249. Egypt.
homofacies Spinelli, *in* Spinelli et al., 1989: 734. Argentina.
horni Kieffer, 1925a: 408. Sri Lanka.
hortensis Sahuquillo and Gil Collado, 1982: 305 (as subspecies of *minutus*). Spain.
humicola Ewen, *in* Ewen and Saunders, 1958: 679. Canada (Saskatchewan).
hystricoides Debenham, 1973: 71. Papua New Guinea.
ilonae Gosseries, 1989: 2. New name for *pilosipennis*.
pilosipennis Tokunaga, 1940b: 276 (preoccupied by *Forcipomyia pilosipennis* (Kieffer), 1919a). Japan.
inconspicuus Ewen, *in* Ewen and Saunders, 1958: 706. Canada (Saskatchewan).
incultus Ewen, *in* Ewen and Saunders, 1958: 699. Costa Rica.
indianus (Kieffer), 1910: 185 (*Ceratopogon*). India.
rivicola (Kieffer), 1911b: 324 (*Forcipomyia*). India.
infuscus Goetghebuer, 1929: 232. Belgium.
insignipalpis Macfie, 1940a: 73. Brazil.

insigniunguis Clastrier, 1987b: 198. New Caledonia (France).
insigniventris Macfie, 1935a: 51. Brazil.
insularis Kieffer, 1921g: 561. Taiwan.
isis Kieffer, 1925e: 252. Egypt.
jacobsoni (de Meijere), 1907: 212 (*Ceratopogon*). Indonesia.
flavellus Kieffer, 1913d: 177. India.
immaculatus Kieffer, 1917a: 181. Papua New Guinea.
cavernarum Edwards, 1924: 107. India.
rarus Johannsen, 1946: 188. Guam (USA).
jamnbacki Wirth, 1994a: 24. USA (New York).
japonicus Tokunaga, 1940b: 272. Japan.
jejunus Macfie, 1934c: 184 (1934d: 211). Malaysia.
kagiensis Tokunaga, 1940b: 270. Taiwan.
kangnani Yan, Zhang and Yu, 1996: 99. China.
kelainosoma Ingram and Macfie, 1922: 261. Ghana.
kribiensis Kieffer, 1921b: 10. Cameroon.
kyotoensis Tokunaga, 1940b: 275. Japan.
lacajae Macfie, 1953: 100. Costa Rica.
lacustris Clastrier, 1987b: 203. New Caledonia (France).
lampronotus (Kieffer), 1911c: 335 (*Ceratopogon*). Seychelles.
largipenis Yan, Zhang and Yu, 1996: 98. China.
lassus Yan, Zhang and Yu, 1996: 97. China.
latipygus Vaillant, 1957: 270. Algeria.
lazoensis Remm, 1971: 197. Russia.
levis (Coquillett), 1901a: 604 (*Ceratopogon*). USA (Maryland).
exilis (Coquillett), 1902a: 86 (*Ceratopogon*). USA (District of Columbia).
lindneri Wirth, 1964: 2. Tanzania.
lituratus (Williston), 1896: 281 (*Ceratopogon*). St. Vincent.
longicalcar Remm, 1961b: 925. Estonia.
longicalcaris Tokunaga, 1959: 182. Papua New Guinea.
longicornis Ewen, *in* Ewen and Saunders, 1958: 700. Costa Rica.
longicostus Clastrier, 1959b: 360. Senegal.
longipalpis (Kieffer), 1923b: 135 (*Kempia*). Indonesia.
longiserrus (Kieffer), 1921a: 53 (*Kempia*). Poland.
lucorum (Meigen), 1818: 72 (*Ceratopogon*). Europe.
sylvaticus (Winnertz), 1852: 29 (*Ceratopogon*). Germany.
bidentatus Kieffer, 1924b: 399 (as variety of *winnertzi*). France.
seminitidus Goetghebuer, 1947: 229. Belgium.
torgnyensis Goetghebuer, 1949: 2. Belgium.
luteicollis (Becker), 1903: 74 (*Ceratopogon*). Egypt.
aegyptius Kieffer, 1925e: 250. Egypt.
phrixus de Meillon, 1943: 105. South Africa.
luteipes Goetghebuer, 1933e: 140. Zaire.
lutescens Clastrier, Rioux and Descous, 1961: 59. Chad.
maculatus (Lundström), 1910: 35 (*Ceratopogon*, as variety of *minutus*). Finland.
avastensis Remm, 1959: 688. Estonia.
hamulatus Remm, 1971: 197. Russia.
maculipennis Clastrier, 1968: 89. French Guiana.
maculosus Ewen, *in* Ewen and Saunders, 1958: 689. Canada (Saskatchewan).
marginipilus Tokunaga, 1940b: 267. Japan.
maritimus Tokunaga, 1940b: 270. Japan.
mastersi (Skuse), 1889: 297 (*Ceratopogon*). Australia (New South Wales).
matilei Clastrier, 1987b: 204. New Caledonia (France).
megalothecus Remm, 1971: 197. Russia.
melancholicus (Meigen), 1838: 18 (*Ceratopogon*). Europe.
melanimus Ingram and Macfie, 1923: 50. South Africa.
melanoticus Macfie, 1934c: 187 (as variety of *subfuscus*). Malaysia.
melinois (Speiser), 1910: 751 (*Helea*, as *melinoessa*). Tanzania.
mendax Kieffer, 1922b: 156 (as variety of *flaviceps*). Taiwan.
mendozae Ingram and Macfie, 1931a: 229. Argentina.
minimus Kieffer, 1916a: 87. Taiwan.
minutus (Meigen), 1830: 263 (*Ceratopogon*). Europe.
fortiserrus Kieffer, 1924b: 398. France.
turficola Kieffer, 1925b: 149. Estonia.
parviforceps Tokunaga, 1940b: 267. Russia.
miripalpis Kieffer, 1924b: 397. France.
monticola Tokunaga, 1940b: 271. Taiwan.

montivagus (Kieffer), 1911b: 322 (*Forcipomyia*). India.
montium Storå, 1936: 34. Canary Islands (Spain).
muelleri (Müller), 1905: 224 (*Ceratopogon*). Germany.
muelleri (Kieffer, 1906b: 336) (*Ceratopogon*, preoccupied by *Atrichopogon muelleri* (Müller), 1905). Germany.
cornutus Nielsen, 1951: 25. Denmark.
myrmedon Kieffer, 1922b: 155. Taiwan.
nanopalpis Borkent, in this work. New name for *brevipalpis*.
brevipalpis Remm, 1993: 198 (preoccupied by *Atrichopogon brevipalpis* Macfie, 1944b). Russia.
nanus Macfie, 1940b: 184. Guyana.
natalensis Ingram and Macfie, 1923: 52. South Africa.
natans Kieffer, 1922g: 496. Algeria.
nebulosus Macfie, 1939c: 192. Brazil.
nemestrinus (Santos Abreu), 1918: 257 (*Helea*). Canary Islands (Spain).
flavoscutellatus (Becker), 1908: 74 (*Ceratopogon*, preoccupied by *Dasyhelea flavoscutellata* (Zetterstedt), 1850). Canary Islands (Spain).
albidipes (Santos Abreu), 1918: 259 (*Helea*, as variety of *nemestrina*). Canary Islands (Spain).
distinctus (Santos Abreu), 1918: 260 (*Helea*, as variety of *nemestrina*). Canary Islands (Spain).
flavicans (Santos Abreu), 1918: 259 (*Helea*, as variety of *nemestrina*). Canary Islands (Spain).
flavihalteratus (Santos Abreu), 1918: 259 (*Helea*, as variety of *nemestrina*). Canary Islands (Spain).
fulviventris (Santos Abreu), 1918: 260 (*Helea*, as variety of *nemestrina*). Canary Islands (Spain).
neocaledoniensis Clastrier, 1987b: 205. New Caledonia (France).
nigeriae Clastrier and Wirth, 1961a: 200. Nigeria.
nigribasalis Tokunaga, 1959: 180. Papua New Guinea.
nigripes Macfie, 1934c: 188. Malaysia.
nigrithoracius Tokunaga, 1959: 188. Papua New Guinea.
nigrithorax Clastrier, 1987b: 207. New Caledonia (France).
nigrofuscus Remm, 1980: 115. Kyrgyzstan.
nigromicans Goetghebuer, 1935d: 162. Zaire.
nilicola Kieffer, 1921b: 9. Sudan.
niloticus Kieffer, 1921b: 9 (as variety of *conglomeratus*). Sudan.
nilssoni de Meillon and Wirth, 1989a: 88. Madagascar.
novaeteutoniae Macfie, 1939c: 189. Brazil.
novaguinensis Tokunaga, 1959: 202. Indonesia.
nubeculosus Macfie, 1949: 113. Mexico.
nudus Zilahi-Sebess, 1940: 38. Hungary.
obesus Goetghebuer, 1948b: 11. Zaire.
obfuscatus Ingram and Macfie, 1931a: 173. Argentina.
obnubilus Ingram and Macfie, 1931a: 175. Argentina.
chilensis Ingram and Macfie, 1931a: 175. Argentina.
assimilis Ingram and Macfie, 1931a: 176. Argentina.
obscuripes Macfie, 1933a: 77. French Polynesia (France).
obscurus Ewen, *in* Ewen and Saunders, 1958: 685. Puerto Rico (USA).
occidentalis Wirth, 1952a: 120. USA (California).
ochrosoma (Ingram and Macfie), 1921: 340 (*Kempia*). Ghana.
ocumare (Ortiz), 1952b: 254 (*Monohelea*). Venezuela.
oedemerarum Storå, 1939: 16. Finland.
okinawensis Tokunaga, 1962a: 165. Japan.
origenus Kieffer, 1913d: 176. India.
oriphilus (Kieffer), 1911b: 324 (*Forcipomyia*). India.
ornatipennis Clastrier, 1987a: 271. French Guiana.
ornatithorax Clastrier, 1987b: 208. New Caledonia (France).
ornativentris Clastrier, 1959b: 363. Senegal.
osiris Kieffer, 1925e: 250. Egypt.
pachycnemus Macfie, 1953: 101. Costa Rica.
pacificus Clastrier, 1987b: 210. New Caledonia (France).
pallidicillus Yu and Zou, 1988: 85. China.
pallidipedis Tokunaga, 1959: 194. Papua New Guinea.
pallidipes Kieffer, 1917b: 301. Paraguay.
palmatus Tokunaga, 1962a: 160. Japan.
palpalis Macfie, 1939c: 196. Brazil.

parroti Clastrier, 1956: 510. Algeria.
parvulus Kieffer, 1919a: 25. Ukraine.
paulus Remm, 1961b: 928. New name for *nanus*.
nanus Remm, 1959: 686 (preoccupied by *Atrichopogon nanus* Macfie, 1940b). Estonia.
pavidus (Winnertz), 1852: 33 (*Ceratopogon*). Germany.
pectinatus Macfie, 1939c: 195. Brazil.
pecteniventris Borkent, in this work. New name for *armativentris*.
armativentris (Kieffer), 1923b: 137 (*Kempia*, preoccupied by *Atrichopogon armativentris* (Kieffer), 1923a). Indonesia.
penicillatus Delécolle and Rieb, 1994: 274. Guadeloupe.
peregrinus (Johannsen), 1908: 266 (*Ceratopogon*). USA (New York).
perfuscus Ingram and Macfie, 1921: 337. Ghana.
perplexus (Kieffer), 1913d: 182 (*Dasyhelea*). India.
peruvianus Kieffer, 1917b: 302. Peru.
petrosus Remm, 1980: 111. Kyrgyzstan.
phusunensis Remm, 1971: 192. Russia.
piceiventris Kieffer, 1917b: 301. Paraguay.
picipes Goetghebuer, 1935d: 163. Zaire.
pictipennis Clastrier, 1979: 30. French Guiana.
planetus Yu and Liu, 1995: 47. China.
poguei Clastrier, 1987b: 201. New Caledonia (France).
politus (Edwards), 1929b: 9 (*Dolichohelea*). Philippines.
pollinivorus Downes, 1955: 442. Great Britain.
postremus (Santos Abreu), 1918: 269 (*Helea*). Canary Islands (Spain).
pruinosus Kieffer, 1921g: 560. Taiwan.
psilopterus Kieffer, 1919a: 26. Hungry, Croatia, Greece.
pudicus Johannsen, 1932: 418. Indonesia.
pullatus Macfie, 1933b: 95. French Polynesia (France).
pusillus (Kieffer), 1921b: 6 (*Kempia*). Cameroon.
quadrisetosus Goetghebuer, 1933e: 141. Zaire.
quadrispinosus Remm, 1993: 196. Russia.
quateriharpagonum Tokunaga, 1959: 198. Indonesia.
raripilipennis Tokunaga and Murachi, 1959: 123. Belau (USA).
remigatus Ewen, *in* Ewen and Saunders, 1958: 687. Brazil.
rhynchops (Schiner), 1868: 26 (*Ceratopogon*). Australia (New South Wales).
rostratus (Winnertz), 1852: 31 (*Ceratopogon*). Germany.
putredinis Kieffer, 1922c: 233. Germany.
ruber Kieffer, 1916a: 86. Taiwan.
rubidus Macfie, 1933b: 97. French Polynesia (France).
rufescens Kieffer, 1921g: 563. Taiwan.
rufiventris Kieffer, 1917a: 184 (as variety of *atratus*). Australia (New South Wales).
rusticus Macfie, 1939c: 190. Brazil.
ryukyuensis Tokunaga, 1962a: 164. Japan.
sachalinensis Remm, 1993: 198. Russia.
salisburiensis de Meillon, 1959a: 337. Zimbabwe.
sanctaeclarae Macfie, 1949: 114. Mexico.
sanctilaurentii Kieffer, 1917b: 303. Paraguay.
saundersi Ewen, *in* Ewen and Saunders, 1958: 691. Puerto Rico (USA).
schizoynx Giles and Wirth, 1982b: 825. Sri Lanka.
scutellaris Goetghebuer, 1933e: 140. Zaire.
sebessi Remm, 1981: 32. New name for *biroi*.
biroi Zilahi-Sebess, 1941: 83 (preoccupied by *Atrichopogon biroi* Kieffer, 1917a). Tunisia.
semipilosus (Kieffer), 1912c: 5 (*Forcipomyia*). Sri Lanka.
sentus Yu and Qi, *in* Liu et al., 1990: 219 (also as *snetus* and *sentns*). China.
sequax (Williston), 1896: 282 (*Ceratopogon*). St. Vincent.
serrulatus Kieffer, 1924b: 399. France.
sessilis Kieffer, 1917a: 183. Papua New Guinea.
setosicubitus Clastrier, 1987b: 210. New Caledonia (France).
setosipennis (Kieffer), 1911d: 3 (*Forcipomyia*). Germany.
orbicularis Kieffer, 1919a: 28. Romania.
setosus Kieffer, 1919c: 193. New name for *setosipennis*.
setosipennis Kieffer, 1913d: 178 (preoccupied by *Atrichopogon setosipennis* (Kieffer), 1911d). India.

seudoobfuscatus Spinelli, 1982: 208. Argentina.
shortlandi Macfie, 1932c: 33. New Zealand.
sichotensis Remm, 1971: 195. Russia.
silesiacus Kieffer, 1919a: 30. Poland.
simplicifurcatus Tokunaga, 1959: 201. Indonesia.
singularis (Kieffer), 1921a: 52 (*Kempia*). Poland.
sinuosus Wirth and Ratanaworabhan, 1992: 272. Malaysia.
snyderi Tokunaga, *in* Tokunaga and Murachi, 1959: 117. Japan.
speculiger Nielsen, 1951: 25. Denmark.
sphagnalis (Kieffer), 1925a: 408 (1927: 59) (*Kempia*). Estonia.
spinicaudalis Tokunaga, *in* Tokunaga and Murachi, 1959: 129. Belau (USA).
spiniventris Tokunaga, 1940b: 273. Japan.
spurius Kieffer, 1913d: 177. India.
stannusi Ingram and Macfie, 1924c: 181. Ghana.
subfuscus Macfie, 1934c: 187. Malaysia.
sublimatus Kieffer, 1913d: 176. India.
sulfuratus Debenham, 1989: 229. New name for *flaveolum*.
aveolum Tokunaga, 1959: 185 (preoccupied by *Atrichopogon flaveolus* Zilahi-Sebess, 1936a). Papua New Guinea.
sumatrae Macfie, 1934c: 185 (1934d: 212). Malaysia.
taeniatus Macfie, 1939c: 186. Brazil.
talarum Spinelli, 1982: 204. Argentina.
tatricus Remm, 1981: 32. New name for *montivagus*.
montivagus Kieffer, 1919a: 25 (preoccupied by *Atrichopogon montivagus* (Kieffer), 1911b). Slovak Republic.
tetramischus Yu and Liu, 1995: 48. China.
thersites (Williston), 1896: 280 (*Ceratopogon*). St. Vincent.
tenuiatus Tokunaga, 1959: 200. Papua New Guinea.
thienemanni Kieffer, 1921a: 54. Germany.
nitens Kieffer, 1921a: 54 (as variety of *thienemanni*). Germany.
titanus Boesel, 1973: 213. USA (Ohio).
transiens (Walker), 1848: 25 (*Ceratopogon*). Canada.
transversalis Kieffer, 1918a: 91. Turkey, Hungary, Slovak Republic, Romania, Italy.
homopterus Kieffer, 1919a: 29 (as variety of *transversalis*). Hungary, Turkey.
coracellus Kieffer, 1919a: 30 (as variety of *ventralis*). Hungary, Poland, Ukraine, Greece.
transversus Wirth, 1952a: 124. USA (California).
trichopus (Thomson), 1868: 444 (*Ceratopogon*). China.
trichotomma (Kieffer), 1911c: 332 (*Ceratopogon*). Seychelles.
tridentistylus Tokunaga, 1959: 184. Papua New Guinea.
trinidadensis Macfie, 1937a: 5. Trinidad and Tobago.
tritomus Kieffer, 1919a: 24. Hungary.
tropicus Kieffer, 1913e: 8. Kenya.
tuberculatus Ewen, *in* Ewen and Saunders, 1958: 709. Trinidad and Tobago.
turneri Ingram and Macfie, 1923: 53. South Africa.
umbratilis Macfie, 1935a: 51. Brazil.
umbrosus Macfie, 1933b: 97. French Polynesia (France).
unguis Tokunaga, 1962a: 162. Japan.
unilineatus Remm, 1967: 10. Azerbaijan.
urbicola (Kieffer), 1911b: 325 (*Forcipomyia*). India.
uruguayensis (Cordero), 1929: 95 (*Lophomyidium*). Uruguay.
utricularis Macfie, 1953: 102. Costa Rica.
ventralis Kieffer, 1918a: 91. Turkey, Hungary, Ukraine.
nigriventris Kieffer, 1919a: 30 (as variety of *ventralis*). Slovak Republic.
vepres Debenham, 1973: 73. Australia (Queensland).
vesiculosus Macfie, 1934c: 184 (1934d: 209). Malaysia.
vestitipennis Kieffer, 1917a: 183. Papua New Guinea.
vicinus (Santos Abreu), 1918: 262 (*Helea*). Canary Islands (Spain).
victoriae de Meillon, 1942a: 96. Zimbabwe.
vittatus Tokunaga, 1959: 196. Papua New Guinea.
warmkei Wirth, 1956c: 243. Puerto Rico (USA).
websteri (Coquillett), 1901a: 603 (*Ceratopogon*). USA (Louisiana).
winnertzi Goetghebuer, 1922: 51. Belgium.
meloesugans Kieffer, 1922g: 495. Algeria.

wirthi Chan and Linley, 1988: 189. USA (Florida).
wirthorum Delécolle and Braverman, 1997: 101. Israel.
woodfordi Macfie, 1938: 162. Trinidad and Tobago.
xanthoaspidium Carter, Ingram and Macfie, 1921a: 322. Ghana.
xanthophilus (Kieffer), 1911b: 326 (*Forcipomyia*). India.
xanthopus Kieffer, 1913d: 175. India.
xanthopygus Tokunaga, 1962a: 161. Japan.
yamabukiensis Clastrier, 1987c: 426. Zaire.
yoshimurai Tokunaga, 1940b: 272. Japan.

Genus ATRICULICOIDES Remm

ATRICULICOIDES Remm, 1976b: 108. Type species: *Atriculicoides macrophthalmus* Remm, by original designation.

cenomanensis Szadziewski and Schlüter, 1992: 74. France. Upper Cretaceous.
dasyheleis Szadziewski, 1996: 55. Russia. Upper Cretaceous.
globosus (Boesel), 1937: 47 (*Lasiohelea*). Canada (Manitoba). Upper Cretaceous.
creteus (Boesel), 1937: 46 (*Lasiohelea*). Canada (Manitoba). Upper Cretaceous.
incompletus Szadziewski and Schlüter, 1992: 76. France. Upper Cretaceous.
macrophthalmus Remm, 1976b: 108. Russia. Upper Cretaceous.
squamiciliatus Remm, 1976b: 110. Russia. Upper Cretaceous.
sibiricus Szadziewski, 1996: 56. Russia. Upper Cretaceous.
taimyricus Szadziewski, 1996: 56. Russia. Upper Cretaceous.

Genus FORCIPOMYIA Meigen

FORCIPOMYIA Meigen, 1818: 73,75. Type species: *Tipula bipunctata* Linnaeus, designation by Westwood, 1840: 126. Generic name first published in synonymy with *Ceratopogon* but available under ICZN Code Article 11(e).
LABIDOMYIA Stephens, 1829a: 52 (1829b: 239) (unnecessary replacement name for *Forcipomyia* Meigen, as *Forcipomyia* Megerle). Type species: *Tipula bipunctata* Linnaeus, designation by Westwood, 1840: 126.
TETRAPHORA Philippi, 1865: 630. Type species: *Tetraphora fusca* Philippi, by monotypy.
PROHELEA Kieffer, 1911b: 319 (as subgenus of *Forcipomyia*). Type species: *Ceratopogon decipiens* Kieffer, designation by Brunetti, 1920: 48.

Subgenus BASSOFORCIPOMYIA Debenham

BASSOFORCIPOMYIA Debenham, 1987b: 172 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia centurio* Debenham, by original designation.

centurio Debenham, 1987b: 173. Australia (Tasmania).
inca Debenham, 1987b: 175. Australia (New South Wales).

Subgenus BLANTONIA Wirth and Dow

BLANTONIA Wirth and Dow, 1971: 289 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia caribbea* Wirth and Dow, by original designation.

caribbea Wirth and Dow, 1971: 291. Jamaica.
testudo Debenham, 1987a: 64. Australia (Queensland).

Subgenus CALOFORCIPOMYIA Saunders

CALOFORCIPOMYIA Saunders, 1957: 680 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia caerulea* Saunders, by original designation.

annulipes Tokunaga, 1940c: 72. Japan.
apicalis Goetghebuer, 1935d: 148. Zaire
trimaculata Goetghebuer, 1935d: 160. Zaire.
rutshurensis Goetghebuer, 1948b: 7. Zaire.
auripes Ingram and Macfie, 1924b: 560. Ghana.
caerulea Saunders, 1956: 681. Brazil.
campanula de Meillon and Downes, 1986: 142. South Africa.
copanensis Utmar and Wirth, 1976: 129. Honduras.
eukosma Macfie, 1939c: 148. Brazil.

furcifera Macfie, 1940e: 920. Brazil.
gibba Debenham, 1987b: 180. Australia (Queensland).
glauca Macfie, 1934b: 144. Great Britain.
monilis Goetghebuer, 1934c: 287. Russia.
diversipes Goetghebuer, 1936: 319. Belgium.
splendida Wirth, 1951d: 315. USA (Virginia).
hatoensis Utmar and Wirth, 1976: 131. Panama.
hermosa Utmar and Wirth, 1976: 117. Brazil.
lemuria de Meillon, 1961: 43. Zimbabwe.
maculipes (Goetghebuer), 1933e: 135 (*Lasiohelea*). Zaire.
neocaledoniensis Clastrier and Delécolle, 1991: 183. New Caledonia (France).
nigrescens Macfie, 1939c: 156. Brazil.
pennaticauda Debenham, 1987b: 183. Papua New Guinea.
quokkae Debenham, 1987b: 179. Australia (West Australia).
remigera Utmar and Wirth, 1976: 121. Colombia.
sabalitensis Utmar and Wirth, 1976: 127. Costa Rica.
scitula Goetghebuer, 1935d: 159. Zaire.
squamianulipes Tokunaga and Murachi, 1959: 194. Belau (USA).
swezeyi Edwards, 1928: 50. American Samoa (USA).
takahashii Tokunaga, 1940c: 88. Taiwan.
varicolor Saunders, 1957: 683. Brazil.
viridis Clastrier and Delécolle, 1991: 179. New Caledonia (France).

Subgenus COLLESSOHELEA Debenham

COLLESSOHELEA Debenham, 1987a: 60 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia yungurara* Debenham, by original designation.

yungurara Debenham, 1987a: 61. Australia (Queensland).

Subgenus DYCEA Debenham

DYCEA Debenham, 1987d: 666 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia vespa* Debenham, by original designation.

capax Debenham, 1987d: 670. Australia (New South Wales).
edgari Tokunaga and Murachi, 1959: 154 Micronesia.
hamoni de Meillon, 1959a: 329. Burkina Faso.
hikosanensis Tokunaga, 1940c: 81. Japan.
improbiserra Debenham, 1987d: 667. Papua New Guinea.
madeira Clastrier, 1991b: 261. Madeira (Portugal).
pachyparamera Clastrier and Delécolle, 1991: 187. New Caledonia (France).
transversalis Clastrier and Delécolle, 1991: 190. New Caledonia (France).
vespa Debenham, 1987d: 668. Australia (New South Wales).

Subgenus EUPROJOANNISIA Brèthes

EUPROJOANNISIA Brèthes, 1914: 155. Type species: *Euprojoannisia platensis* Brèthes, by original designation.
EUFORCIPOMYIA Malloch, 1915b: 312. Type species: *Euforcipomyia hirtipennis* Malloch (= *Ceratopogon palustris* Meigen), by original designation.
CRYPTOSCENA Enderlein, 1936: 51. Type species: *Ceratopogon palustris* Meigen, by monotypy. **NEW SYNONYM.**
PROFORCIPOMYIA Saunders, 1957: 662 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia wirthi* Saunders, by original designation.

aequalis (Skuse), 1889: 294 (*Ceratopogon*). Australia (New South Wales).
aenigma de Meillon and Downes, 1986: 146. South Africa.
alacris (Winnertz), 1852: 25 (*Ceratopogon*). Germany.
antipodum (Hudson), 1892: 45 (*Ceratopogon*). New Zealand.
novaezelandiae Kieffer, 1922a: 145. New Zealand.
arcis de Meillon and Downes, 1986: 143. South Africa.
astyla Tokunaga, 1940c: 92. Japan.
asymmetrica Remm, 1980: 118. Kazakhstan.
atomaria Tokunaga, 1940c: 93. Japan.
avocadonis de Meillon and Wirth, 1979b: 188. South Africa.

bellerophon Debenham and Wirth, 1984: 869. Australia (Queensland).
berendti Szadziewski, 1988: 209. Baltic region. Eocene–Lower Oligocene.
bituberculifera Tokunaga, *in* Tokunaga and Murachi, 1959: 188. Belau (USA).
blantoni Soria and Bystrak, 1975: 3. Brazil.
borealis Remm, 1966: 54. Lithuania.
breviforceps Tokunaga, 1940c: 98. Japan.
bromeliae Saunders, 1957: 665. Brazil.
bureschi (Zilahi-Sebess), 1934: 153 (*Lasiohelea*). Bulgaria.
calamistrata Debenham and Wirth, 1984: 862. Australia (Queensland).
calcarata (Coquillett), 1905: 64 (*Ceratopogon*). Mexico.
canadensis Bystrak and Wirth, 1978: 19. Canada (Saskatchewan).
deucalionis Debenham and Wirth, 1984: 875. Australia (New South Wales).
dolichopodida Chan and Linley, 1989: 253. USA (Florida).
dowi Bystrak and Wirth, 1978: 21. USA (Florida).
dycei Debenham and Wirth, 1984: 871. Australia (New South Wales).
falcifera Saunders, 1959: 39. Trinidad and Tobago.
formosana Kieffer, 1916a: 83. Taiwan.
fuscicalcarata Bystrak and Wirth, 1978: 23. USA (Florida).
fuscimana (Kieffer), 1921g: 559 (*Ceratopogon*). Taiwan.
pennielongata Chan and LeRoux, 1971b: 733. Singapore.
galeata Debenham and Wirth, 1984: 878. Australia (Queensland).
hardyi Wirth and Howarth, 1982: 130. USA (Hawaii).
henningseni Szadziewski, 1988: 211. Denmark. Eocene–Lower Oligocene.
iaculum Debenham and Wirth, 1984: 883. Papua New Guinea.
kaneohe Wirth and Howarth, 1982: 141. USA (Hawaii).
karnyi Edwards, 1923: 183. Indonesia.
kyotoensis Tokunaga, 1940c: 99. Japan.
lepida (Winnertz), 1852: 23 (*Ceratopogon*). Germany.
lokki Remm, 1993: 199. Russia.
longicalcar Kieffer, 1912c: 4. Sri Lanka.
longispina Saunders, 1957: 669. Brazil.
lota (Williston), 1896: 282 (*Ceratopogon*). St. Vincent.
marsalae (Vattier and Adam), 1966a: 305 (*Lasiohelea*). Gabon.
mesasiatica Remm, 1980: 118. Tajikistan.
miocaenica Szadziewski, 1993: 647. Germany. Miocene.
mortuifolii Saunders, 1959: 35. Trinidad and Tobago.
navaiae Bystrak and Wirth, 1978: 31. USA (Florida).
nitens (Santos Abreu), 1918: 260 (*Helea*). Canary Islands (Spain).
soranus de Meillon, 1943: 103. South Africa.
palikuensis Hardy, 1960: 175. USA (Hawaii).
palustris (Meigen), 1804: 28 (*Ceratopogon*). Germany.
hirtipennis (Malloch), 1915b: 313 (*Euforcipomyia*). USA (Illinois).
turfacea Kieffer, 1925b: 148. Estonia.
pechumani Bystrak and Wirth, 1978: 34. USA (New York).
perflavida Remm, 1971: 186. Russia.
phlebotomoides Bangerter, 1933: 252. Switzerland.
subsaltans Remm, 1961a: 189. Estonia.
pholeter Wirth and Howarth, 1982: 139. USA (Hawaii).
piriformis (Meunier), 1904a: 228 (1904b: 239) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
platensis (Brèthes), 1914: 156 (*Euprojoannisia*). Argentina.
psilonota (Kieffer), 1911c: 337 (*Ceratopogon*). Seychelles.
aplonota (Kieffer), 1911c: 337 (*Ceratopogon*). Seychelles.
seychelleana (Kieffer), 1911c: 338 (*Ceratopogon*). Seychelles.
fulvithorax (Kieffer), 1911c: 338 (*Ceratopogon*, as variety of *seychelleana*). Seychelles.
indecora Kieffer, 1914b: 269. South Africa.
litoralis Santos Abreu, 1918: 277. Canary Islands (Spain).
ingrami Carter, 1919: 290. Ghana.
egypti Macfie, 1924: 61. Egypt.
hathor Kieffer, 1925e: 247. Egypt.
congolensis Goetghebuer, 1933e: 132 (also as *conogensis*). Zaire.

flavipilosella Goetghebuer, 1933e: 130 (also as *flavopilosella*, p. 135). Zaire.
lulengaensis Goetghebuer, 1935d: 155. Zaire.
superata Goetghebuer, 1935d: 160. Zaire.
griseipluma Goetghebuer, 1935d: 154. Zaire.
griseolella Goetghebuer, 1948b: 7. Zaire.
quasiingrami Macfie, 1939c: 164. Brazil.
sagittaria Debenham and Wirth, 1984: 880. Australia (Queensland).
saltans (Winnertz), 1852: 27 (*Ceratopogon*). Germany.
saltivaga (Skuse), 1889: 295 (*Ceratopogon*). Australia (New South Wales).
sauteri Kieffer, 1912a: 27. Taiwan.
clara Chan and LeRoux, 1971b: 729. Singapore.
scapularis Goetghebuer, 1933c: 353. Belgium.
setigera Saunders, 1959: 38. Trinidad and Tobago.
simulans Johannsen, 1932: 411. Indonesia.
sonora Wirth, 1952a: 145 (as variety of *calcarata*). USA (California).
spatulifera Saunders, 1957: 667. Brazil.
subnitida (Skuse), 1889: 299 (*Ceratopogon*). Australia (New South Wales).
titillans (Winnertz), 1852: 27 (*Ceratopogon*). Germany.
divaricata (Winnertz), 1852: 25 (*Ceratopogon*). Germany.
tsacasi Clastrier, 1983c: 38. Seychelles.
tuberculosa Szadziewski, 1993: 648. Germany. Miocene.
unica Bystrak and Wirth, 1978: 44. USA (Florida).
vandiemeni Debenham and Wirth, 1984: 864. Australia (Tasmania).
vernocheti (Clastrier), 1959c: 439 (*Lasiohelea*). Réunion (France).
wansoni de Meillon, 1939a: 9. Zaire.
wirthi Saunders, 1957: 663. USA (California).
wirthiana Szadziewski, 1983a: 374. Algeria.
yapensis Tokunaga and Murachi, 1959: 185. Micronesia.
yoshimurai Tokunaga, 1940c: 91. Japan.

Subgenus FORCIPOHELEA Clastrier and Delécolle

FORCIPOHELEA Clastrier and Delécolle, 1991: 195 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia tillierorum* Clastrier and Delécolle, by original designation.

tillierorum Clastrier and Delécolle, 1991: 197. New Caledonia (France).

Subgenus FORCIPOMYIA Meigen

abyssiniae (Kieffer), 1918a: 40 (*Ceratopogon*). Ethiopia.
acanthophora Remm, *in* Havelka, 1976a: 227. Kyrgyzstan.
adjecta Tokunaga, 1959: 284. Indonesia.
akizukii Tokunaga, 1940c: 71. Russia.
alamatae Macfie, 1937b: 73. Ethiopia.
alatauensis Remm, 1980: 123. Kazakhstan.
albiradialis Tokunaga, 1940c: 75. Japan.
albonotata (Kieffer), 1910: 185 (*Ceratopogon*). India.
albopunctata (Skuse), 1889: 293 (*Ceratopogon*). Australia (New South Wales).
albosignata (Kieffer), 1910: 184 (*Ceratopogon*). Myanmar.
albostyla Remm, 1979b: 58. Estonia.
allocera Rieth, 1915: 438. New name for *heterocera*.
heterocera Kieffer, 1914a: 234 (preoccupied by *Forcipomyia heterocera* Kieffer, 1913d). Germany.
allocera Kieffer, *in* Thienemann and Kieffer, 1916: 491 (preoccupied by *Forciopomyia allocera* Rieth, 1915). New name for *heterocera*.
altaica Remm, 1972: 62. Russia.
annandalei Edwards, 1932: 177. India.
antrijovis (Kieffer), 1919a: 15 (*Ceratopogon*). Greece.
apricans (Kieffer), 1919a: 19 (*Ceratopogon*). Slovak Republic.
aquatica Kieffer, 1922c: 230. Germany.
arcigera Kieffer, 1922b: 150. Taiwan.
argenteola Macfie, 1939c: 146. Brazil.
armandi Harant, Huttel and Huttel, 1952: 13. Italy.
armativentris Clastrier, 1960c: 518. Zaire.
ashantii Ingram and Macfie, 1924b: 589. Ghana.
rufula Goetghebuer, 1935d: 159. Zaire.
asticta Kieffer, 1913d: 172 (as variety of *albosignata*). India.
atricella Debenham, 1987c: 304. Australia (New South Wales).
aurea Malloch, 1915a: 318. USA (Illinois).

auronitens (Kieffer), 1910: 183 (*Ceratopogon*). Myanmar.
biannulata Ingram and Macfie, 1924b: 557. Ghana, Nigeria, Malawi.
quatuorguttata Goetghebuer, 1935d: 158 (also misspelled as *quadriguttata*). Zaire.
bicolorata Goetghebuer, 1935d: 150. Zaire.
marginella Goetghebuer, 1935d: 156. Zaire.
nigricosta Goetghebuer, 1935d: 158. Zaire.
pallidula Goetghebuer, 1948b: 6. Zaire.
abonnenci Clastrier, 1959b: 340. Senegal.
bikanni Chan and LeRoux, 1971b: 735. Singapore.
binigrimaculata Tokunaga, 1940c: 68. Japan.
bipunctata (Linnaeus), 1767: 978 (*Tipula*). Europe.
trichoptera (Meigen), 1804: 31 (*Ceratopogon*). Germany.
ambigua (Meigen), 1804: 32 (*Ceratopogon*). Europe.
geniculata (Guérin), 1833: 164 (*Ceratopogon*). France.
palmensis Santos Abreu, 1918: 285. Canary Islands (Spain).
squamaticrus (Kieffer), 1919a: 9 (*Ceratopogon*). Belgium, Serbia-Montenegro, Croatia.
laguncula Kieffer, 1925d: 27. Hungry.
bipunctatapropinqua Chan and LeRoux, 1971b: 740. Canada (Quebec).
bitensis Kieffer, 1924b: 394. France.
brachypetiolata Vimmer, 1928: 58. Israel.
brachytoma Kieffer, 1922b: 149. Taiwan.
braueri (Wasmann), 1893: 277 (*Ceratopogon*). Austria, Switzerland.
brevipedicillata (Kieffer), 1901b: 217 (*Ceratopogon*). France.
brevipennis (Macquart), 1826: 179 (*Ceratopogon*). France.
specularis (Coquillett), 1901a: 601. USA (Pennsylvania).
coprophila Kieffer, 1914a: 233. Germany.
disticta (Kieffer), 1919a: 16 (*Ceratopogon*). Hungry, Slovak Republic, Croatia, Romania.
hirtidorsum (Kieffer), 1919a: 18 (*Ceratopogon*). Ukraine.
nigrimana (Kieffer), 1919a: 19 (*Ceratopogon*). Lithuania.
subnigra Tokunaga, 1940c: 88. Japan.
bystraki Grogan and Wirth, 1975c: 466. USA (Virginia).
calatheae Wirth, 1982a: 573. Dominica.
caliginosella Wirth, 1974: 5. New name for *caliginosa*.
caliginosa Ingram and Macfie, 1931a: 167 (preoccupied by *Forcipomyia caliginosa* (Ingram and Macfie), 1924a). Argentina.
castanea (Walker), 1848: 26 (*Ceratopogon*). Sierra Leone.
risbeci Séguy, 1946: 9. Senegal.
incomptifeminiba (Austen), 1912: 107 (*Ceratopogon*). Ghana.
cattleyarum Harant and Galan, 1942b: 56. France.
charon Debenham, 1987c: 276. Australia (West Australia).
chilensis (Philippi), 1865: 601 (*Ceratopogon*). Chile.
chrysothrix (Kieffer), 1921g: 558 (*Ceratopogon*). Taiwan, Philippines.
ciliata (Winnertz), 1852: 21 (*Ceratopogon*). Germany.
boleti (Kieffer), 1901a: 157 (*Ceratopogon*). France.
turfosa Kieffer, 1925b: 146. Estonia.
canicularis Goetghebuer, 1948a: 36. Belgium.
cilipes (Coquillett), 1900: 397 (*Ceratopogon*). USA (Alaska).
cirrhosa Clastrier, Rioux and Descous, 1961: 50. Chad.
claggi Tokunaga, *in* Tokunaga and Murachi, 1959: 150. Guam (USA).
coarctata (Kieffer), 1901a: 161 (*Ceratopogon*). Romania.
concolor Malloch, 1915a: 319 (as variety of *pergandei*). USA (Illinois).
confluens Kieffer, 1913d: 170. India.
conigera Kieffer, 1913d: 168. India.
contraria Debenham, 1987c: 307. Australia (New South Wales).
cooki Macfie, 1932c: 28. New Zealand.
corinneae Gosseries, 1989: 3. New name for *vexans*.
vexans (de Meijere), 1909: 198 (*Ceratopogon*, preoccupied by *Culicoides vexans* (Staeger), 1839). Indonesia.
corticis Kieffer, 1911d: 2. Germany.

costata (Zetterstedt), 1838: 815 (*Ceratopogon*). Sweden.
picea (Winnertz), 1852: 21 (*Ceratopogon*). Germany.
latipalpis (Kieffer), 1901a: 159 (*Ceratopogon*). France.
meinerti Kieffer, 1915c: 281. Denmark.
corticicola (Kieffer), 1919a: 14 (*Ceratopogon*). Germany.
turficola Kieffer, 1925b: 147. Russia.
crassipalpis Debenham, 1987c: 303. Australia (New South Wales).
crassipes (Winnertz), 1852: 22 (*Ceratopogon*). Germany.
creesi de Meillon, Meiswinkel and Wirth, 1982: 123. South Africa.
cubicularis Kieffer, 1911b: 320. India.
dacica Damian-Georgescu, 1972: 17. Romania.
danica Kieffer, 1915c: 280. Denmark.
decipiens (Kieffer), 1910: 182 (*Ceratopogon*). India.
declivis Debenham, 1987c: 295. Australia (New South Wales).
delpontei Cavalieri, 1961b: 169. Argentina.
desertensis Wirth and Hubert, 1960a: 639. USA (California).
despecta Kieffer, 1922b: 152. Taiwan.
desurvillei Macfie, 1932c: 28. New Zealand.
dichromata Remm, *in* Remm and Zhogolev, 1968: 826. Ukraine.
dissimilis Clastrier and Delécolle, 1991: 200. New Caledonia (France).
edwardsiana Wirth, 1974: 5. New name for *edwardsi*.
edwardsi Ingram and Macfie, 1931a: 160 (preoccupied by *Forcipomyia edwardsi* (Saunders), 1925). Argentina.
elegans de Meillon and Wirth, 1987a: 36. South Africa.
elegantula Malloch, 1915b: 311. USA (Illinois).
elongata (Kieffer), 1901a: 160 (*Ceratopogon*). Romania.
ensifera Macfie, 1934c: 182. Malaysia.
eobreviflagellata Szadziewski, 1988: 220. Poland. Eocene–Lower Oligocene.
eocostata Szadziewski, 1988: 202. Poland. Eocene–Lower Oligocene.
episcopa Debenham, 1987c: 291. Australia (New South Wales).
euzierei Harant and Galan, 1943: 122. France.
excellans Johannsen, 1932: 413. Indonesia.
fasciata Tokunaga, 1940c: 78. Japan.
fascicauda Tokunaga, 1940c: 62 (1940e: 167). Micronesia.
fascicornis Tokunaga, 1962a: 171. Japan.
fidelis Krivosheina, 1968: 586. Russia.
filicauda Remm, 1993: 200. Russia.
fimbriata (Coquillett), 1901a: 601 (*Ceratopogon*). USA (District of Columbia).
flava (Williston), 1896: 280 (*Ceratopogon*). St. Vincent.
flaviceps Kieffer, 1913d: 173 (as variety of *macrothrix*). India.
flavicincta Santos Abreu, 1918: 282. Canary Islands (Spain).
flavicoxis Goetghebuer, 1935d: 152. Zaire.
wittei Goetghebuer, 1948b: 5. Zaire.
flavipectoralis Tokunaga, 1959: 280. Papua New Guinea.
flavomaculata Vimmer, 1928: 58. Israel.
flavominima Remm, 1971: 184. Russia.
formicaria (Kieffer), *in* Kieffer and Thienemann, 1908: 2 (*Ceratopogon*). France.
freyi Storå, 1936: 32. Canary Islands (Spain).
fulvescens Santos Abreu, 1918: 284. Canary Islands (Spain).
funebris (Meigen), 1830: 262 (*Ceratopogon*). Europe.
furfura de Meillon and Wirth, 1989b: 205. Zimbabwe.
fusca (Philippi), 1865: 630 (*Tetraphora*). Chile.
patagonica Ingram and Macfie, 1931a: 165. Argentina.
fusciforceps (Kieffer), 1918a: 38 (*Ceratopogon*). Guinea.
gedanicola Szadziewski, 1988: 200. Poland. Eocene–Lower Oligocene.
geniflava Tokunaga, 1959: 278. Papua New Guinea.
genualis (Loew), 1866: 128 (*Ceratopogon*). Cuba.
propinqua (Williston), 1896: 279 (*Ceratopogon*). St. Vincent.
raleighi Macfie, 1938: 160. Trinidad and Tobago.
guamensis Tokunaga and Murachi, 1959: 166. Guam (USA).
guilleaumei Goetghebuer, 1935b: 413. Belgium.
guttata de Meillon and Wirth, 1989b: 204. Zimbabwe.

haranti (Huttel and Huttel), 1952a: 31 (*Monohelea*). France.
harpegonata Wirth and Soria, 1975: 19. Puerto Rico (USA).
heterocera Kieffer, 1913d: 173. India.
himalayae Kieffer, 1911b: 320. India.
hirsuta Ingram and Macfie, 1924b: 577. Ghana.
hirtula (Zetterstedt), 1838: 815 (*Chironomus*). Sweden.
hurdi Wirth, 1952a: 143. USA (California).
hutteli Arnold and Jarry, 1956: 136. France.
hybrida Remm, 1980: 122. Tajikistan.
hygrophila Kieffer, 1925b: 147. Estonia.
sphagnicola Kieffer, 1925b: 148. Estonia.
occidentalis Wirth, 1952a: 141. USA (California).
imaculata Vimmer, 1928: 58. Israel.
ingenua Macfie, 1934c: 180. Malaysia.
ishikariensis Yamashita, Kitamura and Nakamura, 1957: 91. Japan.
ishizuchiensis (Udaka), 1959: 18 (*Lasiohelea*). Japan.
kaltenbachi (Winnertz), 1852: 19 (*Ceratopogon*). Germany.
kilemae Kieffer, 1913e: 4. Kenya.
kisantuensis Goetghebuer, 1933e: 134. Zaire.
kribiensis (Kieffer), 1921b: 6 (*Ceratopogon*). Cameroon.
krzeminskii Szadziewski, 1988: 217. Poland. Eocene–Lower Oligocene.
kulickae Szadziewski, 1988: 219. Poland. Eocene–Lower Oligocene.
laboulbeni (Perris), 1870: 138 (*Ceratopogon*). France.
lagonigera Kieffer, 1922b: 151. Taiwan.
lanceolata Macfie, 1934c: 178 (1934d: 205). Malaysia.
lateralis (Bouché), 1834: 23 (*Ceratopogon*). Europe.
bifilis Kieffer, 1922c: 231. Germany.
lepidopa (Kieffer), 1917a: 179 (*Ceratopogon*). Papua New Guinea.
leptolepis Krivosheina and Remm, 1974: 116. Russia.
letabana de Meillon, Meiswinkel and Wirth, 1982: 125. South Africa.
leucochaeta (Kieffer), 1921b: 5 (*Ceratopogon*). Cameroon.
lignicola (Brunetti), 1912: 445 (*Ceratopogon*). India.
lochmocola Zou and Yu, 1991: 57. China.
longisetosa Krivosheina and Remm, 1974: 118. Russia.
lugubris (Zetterstedt), 1855: 4863 (*Ceratopogon*). Sweden.
lyneborgi Szadziewski, 1988: 196. Denmark. Eocene–Lower Oligocene.
macronyx Goetghebuer, 1933e: 131. Zaire.
longiventris Goetghebuer, 1935d: 155. Zaire.
stanleyi Macfie, 1939a: 86. Uganda.
macrorhyncha (Kieffer), 1910: 183 (*Ceratopogon*). India.
macrothrix Kieffer, 1911b: 325. India.
macswaini Wirth, 1952a: 130. USA (California).
maculipennis Tokunaga, 1940c: 64. Japan.
maculosa Ingram and Macfie, 1931a: 159. Argentina.
magnipunctata Tokunaga, 1940c: 90. Japan.
manchuriensis Tokunaga, 1941b: 90. China.
marini Spinelli and Dippolito, 1995: 155. Venezuela.
maura (Kieffer), 1918a: 37 (*Ceratopogon*). Mozambique.
mcmillani Clastrier and Wirth, 1961a: 191. Nigeria.
melanchroa Ingram and Macfie, 1924b: 591. Nigeria.
mira Johannsen, 1932: 410. Indonesia.
miricornis Kieffer, 1916a: 81. Taiwan.
monticola Kieffer, 1913d: 171. India.
monticolonia Tokunaga, 1966b: 284. Afghanistan.
multipicta Ingram and Macfie, 1931a: 157. Argentina.
murphyi Clastrier and Wirth, 1961a: 194. Gambia.
myrmecophila (Egger), 1863: 1109 (*Ceratopogon*). Austria.
nigeriensis Ingram and Macfie, 1924b: 592. Nigeria.
nigra (Winnertz), 1852: 17 (*Ceratopogon*). Germany.
sphagnorum Kieffer, 1925b: 149. Estonia.
nigrans Remm, 1962b: 188. Estonia.
nigricoxis Goetghebuer, 1935d: 158. Zaire.
elongata Goetghebuer, 1935d: 152 (preoccupied by *Forcipomyia elongata* (Kieffer), 1901a). Zaire.
thripsiformis Goetghebuer, 1935d: 161. Zaire.
lugardi Macfie, 1939a: 85. Uganda.
kibatiensis Goetghebuer, 1948b: 5. Zaire.

elongatula Goetghebuer, 1948b: 6. New name for *elongata*.
atripes Goetghebuer, 1948b: 8. Zaire.
africana Goetghebuer, 1948b: 8. Zaire.
nigrotibialis Ingram and Macfie, 1924b: 571. Ghana.
nilicola (Kieffer), 1925e: 253 (*Apelma*). Egypt.
niligena (Kieffer), 1921b: 4 (*Ceratopogon*). Sudan.
nilotica (Kieffer), 1921b: 3 (*Lepidohelea*). Sudan.
noctivaga Kieffer, 1912c: 3. Sri Lanka.
notata Macfie, 1939a: 84. Uganda.
nuncupata Macfie, 1949: 110. Mexico.
obscura (Walker), 1848: 26 (*Ceratopogon*). Canada.
ochracea Vimmer, 1928: 58. Israel.
orientalis Kieffer, 1923b: 135. Indonesia.
ornaticrus Kieffer, 1912c: 1. Sri Lanka.
ornatipennis Macfie, 1939c: 151. Brazil.
ornatipes (Kieffer), 1918a: 88 (*Ceratopogon*). Sri Lanka.
pallida (Winnertz), 1852: 15 (*Ceratopogon*). Germany.
pallidipes Santos Abreu, 1918: 276 (as variety of *bipunctata*). Canary Islands (Spain).
rustica (Kieffer), 1919a: 19 (*Ceratopogon*). Hungary, Croatia.
cataneii Kieffer, 1923a: 662. Algeria.
pallidistyla Krivosheina and Remm, 1974: 121. Russia.
palmarum Debenham, 1987c: 299. Papua New Guinea.
paradoxa Krivosheina, 1968: 588. Russia.
parda Debenham, 1987c: 295. Australia (New South Wales).
parva (Walker), 1848: 26 (*Ceratopogon*). Canada.
parvicellula Ingram and Macfie, 1931b: 195. New Zealand.
peradeniyae Dessart, 1963: 186. New name for *calcarata*.
calcarata Kieffer, 1912c: 3 (preoccupied by *Forcipomyia calcarata* (Coquillett), 1905). Sri Lanka.
calcarhelea Wirth, 1973: 352. New name for *calcarata*.
pergandei (Coquillett), 1901a: 602 (*Ceratopogon*). USA (District of Columbia).
perrisi (Kieffer), 1901a: 147 (*Ceratopogon*). New name for *brunnipes*.
brunnipes (Perris), 1847: 556 (*Ceratopogon*, preoccupied by *Atrichopogon brunnipes* (Meigen), 1804). France.
picheyrei Harant and Galan, 1942a: 135. Algeria.
pictiscutaris Tokunaga, 1959: 270. Papua New Guinea.
pictoni Macfie, 1938: 161. Trinidad and Tobago.
pilosa (Coquillett), 1902a: 87 (*Ceratopogon*). USA (District of Columbia).
pinamarensis Spinelli, 1983a: 121. Argentina.
pinicola Bystrak and Messersmith, 1980: 109. USA (Maryland).
piroskyi Cavalieri, 1961b: 172. Argentina.
poulaineae Ingram and Macfie, 1931a: 227. Argentina.
praecincta Santos Abreu, 1918: 279. Canary Islands (Spain).
pretoriana (Kieffer), 1918a: 39 (*Ceratopogon*). South Africa.
pseudomicrohelea Szadziewski, 1988: 205. Baltic region. Eocene–Lower Oligocene.
psychasta Kieffer, 1913d: 170. India.
puhtuensis Remm, 1979b: 58. Estonia.
pulchrithorax Edwards, *in* Saunders, 1924: 209. Great Britain.
pulla de Meillon and Wirth, 1981b: 527. South Africa.
punctatipennis Kieffer, 1924b: 394 (as variety of *braueri*). Switzerland.
punctipes Edwards, 1928: 49. Western Samoa.
punctumalbum (Kieffer), 1917a: 178 (*Ceratopogon*). Papua New Guinea.
quadriflava Tokunaga, 1959: 272. Papua New Guinea.
quatei Wirth, 1952a: 142. USA (California).
radicicola Edwards, *in* Saunders, 1924: 208. Great Britain.
padi Remm, 1979b: 59. Estonia.
radiifera (Kieffer), 1918a: 35 (*Ceratopogon*). South Africa.
regula (Winnertz), 1852: 16 (*Ceratopogon*). Germany.
metatarsis Tokunaga, 1940c: 69. Japan.
longimaculata Tokunaga, 1940c: 85. Japan.
resinicola (Kieffer), 1901a: 159 (*Ceratopogon*). France.

rufescens (Kieffer), 1918a: 40 (*Ceratopogon*). Tunisia.
sahariensis Kieffer, 1923a: 663. Algeria.
armaticrus Kieffer, 1923a: 661. Algeria.
onusta Remm, 1980: 122. Kazakhstan.
salmi (de Meijere), 1909: 197 (*Ceratopogon*). Indonesia.
sanguinolenta Kieffer, 1925a: 407. Germany.
securis Chan and LeRoux, 1971b: 751. Singapore.
semirustica Remm, *in* Remm and Zhogolev, 1968: 828. Ukraine.
sensillata Clastrier, 1983c: 44. Seychelles.
setosicrus (Kieffer), 1906c: 357 (*Ceratopogon*). Chile.
sexannulata Clastrier, 1983c: 45. Seychelles.
sexvittata Wirth, 1956c: 248. Costa Rica.
simulata Walley, 1932: 165. Canada (Ontario).
skusei Debenham, 1987c: 279. Australia (New South Wales).
soriai Wirth, 1991b: 168. Brazil.
spatuligera Macfie, 1949: 111. Mexico.
sphagnophila Kieffer, 1925a: 406. Russia.
solonensis Wirth, 1951d: 315. USA (Virginia).
oreophila Remm, 1972: 63 (as *oreophilia*). Russia.
spinuliforceps Tokunaga, 1959: 275. Papua New Guinea.
squamigera Kieffer, *in* Thienemann and Kieffer, 1916: 491. Sweden.
squamipes (Coquillett), 1902a: 88 (*Ceratopogon*). USA (New Mexico).
brumalis (Long), 1902: 3 (*Ceratopogon*). USA (Texas).
squamitibia Lutz, 1914: 88. Brazil.
squamitibialis Tokunaga, 1959: 269. Papua New Guinea.
stenammatis (Long), 1902: 10 (*Ceratopogon*). USA (Connecticut).
striaticornis (Kieffer), 1918a: 36 (*Ceratopogon*). Algeria.
nigerrima Goetghebuer, 1933e: 131. Zaire.
iphias de Meillon, 1936: 169. South Africa.
suberis Clastrier, 1956: 496. Algeria.
flavirustica Remm, *in* Remm and Zhogolev, 1968: 827. Ukraine.
subgedanicola Szadziewski, 1993: 645. Germany. Miocene.
subpallida Tokunaga, 1962a: 181. Japan.
subtilis Johannsen, 1932: 412. Indonesia.
sudanensis Macfie, 1947b: 70. Sudan.
supplex Debenham, 1987c: 297. Australia (Queensland).
swezeyana Tokunaga and Murachi, 1959: 145. Guam (USA).
swezeyanaadfinis Chan and LeRoux, 1971b: 747. Singapore.
tangae Kieffer, 1913e: 6. Tanzania.
tapleyi Ingram and Macfie, 1931b: 196. New Zealand.
tauffliebi Clastrier, 1960c: 515. Congo.
tavetae Kieffer, 1913e: 6. Kenya.
tenuis (Winnertz), 1852: 25 (*Ceratopogon*). Germany.
tenuisquama Kieffer, 1924b: 393. France.
flavipubens Goetghebuer, 1927b: 93. Belgium.
tenuisquamipes Wirth, 1952b: 89. Chile.
tetraclada Kieffer, 1912c: 2. Sri Lanka.
tetrasticta (Kieffer), 1919a: 11 (*Ceratopogon*). Hungary.
texana (Long), 1902: 10 (*Ceratopogon*). USA (Texas).
theobromae Kieffer, 1912c: 3. Sri Lanka.
thienemanni Kieffer, 1912b: 103. France.
tienshanica Remm, 1980: 120. Kazakhstan.
tigripes Ingram and Macfie, 1924b: 580. Ghana.
tortor Debenham, 1987c: 286. Australia (New South Wales).
townesi Wirth, 1952a: 137. USA (California).
townsendi Knab, 1915: 111. Peru.
trigonata Johannsen, 1932: 412. Indonesia.
trilineata Goetghebuer, 1934a: 90. Russia, Austria.
trinotata Kieffer, 1913d: 169. India.
tristicta Kieffer, 1913d: 169. India.
turanorustica Remm, 1980: 118. Uzbekistan.
turbinata (Meunier), 1904a: 227 (1904b: 238) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
tuzeti Huttel and Huttel, 1952c: 178. France.
uncula (Meunier), 1904a: 227 (1904b: 238) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
unculiformis Szadziewski, 1993: 646. Germany. Miocene.
uramaensis Spinelli and Dippolito, 1995: 156. Venezuela.
urbana Goetghebuer, 1937: 273. Belgium.

urnigera Kieffer, 1925e: 247. Egypt.
utae Knab, 1915: 109. Peru.
variicrus Kieffer, 1913d: 172 (as variety of *albosignata*). India.
venetiana (Kieffer), 1919a: 12 (*Ceratopogon*). Italy.
ventralis Borkent, in this work. New name for *abdominalis*.
abdominalis Tokunaga, 1940c: 87 (preoccupied by *Forcipomyia abdominalis* (Santos Abreu), 1918). Japan.
vesicula de Meillon and Wirth, 1983a: 350. South Africa.
vexillaria Debenham, 1987c: 291. Australia (New South Wales).
villiersi Clastrier, 1972a: 98. Congo.
vittata Tokunaga, 1940c: 71. Japan.
wahgi Debenham, 1987c: 285. Papua New Guinea.
waldemari Szadziewski, 1983a: 370. Algeria.
waldenia de Meillon, 1940: 464. South Africa.
wheeleri (Long), 1902: 12 (*Ceratopogon*). USA (Texas).
wygodzinskyi Cavalieri, 1961a: 17. Argentina.
yamauchii Tokunaga, 1940c: 84. Japan.
youngi Wirth, 1982a: 579. Panama.
zlatensis Damian-Georgescu, 1972: 18. Romania.
zonogaster Ingram and Macfie, 1931a: 168. Chile.

Subgenus HERAKLEOHELEA Debenham

HERAKLEOHELEA Debenham, 1987a: 97 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia grallator* Debenham, by original designation.

grallator Debenham, 1987a: 97. Australia (New South Wales).

Subgenus KATTANGOMYIA Debenham

KATTANGOMYIA Debenham, 1987a: 98 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia taura* Debenham, by original designation.

orbis Debenham, 1987a: 102. Australia (New South Wales).

taura Debenham, 1987a: 101. Australia (New South Wales).

Subgenus LASIOHELEA Kieffer

CENTRORHYNCHUS Lutz, 1914: 62 (preoccupied by *Centrorhynchus* Steven or Fisher Waldheim, 1829). Type species: *Centrorhynchus stylifer* Lutz, by original designation.
LASIOHELEA Kieffer, 1921h: 115. Type species: *Atrichopogon pilosipennis* Kieffer (= *Ceratopogon velox* Winnertz), by original designation.
PARAPTEROBOSCA Harant, Huttel and Huttel, 1951: 468. Type species: *Parapterobosca anthropophila* Harant, Huttel and Huttel, by original designation.
DACNOFORCIPOMYIA Chan and Saunders, 1965: 527 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia anabaenae* Chan and Saunders, by original designation.

agas (Rondani), 1875: 462 (*Ceratopogon*). Malaysia.
aiyurae Debenham, 1983: 29. Papua New Guinea.
anabaenae Chan and Saunders, 1965: 528. Singapore.
aeschrodenta (Yu and Liu), 1981: 61 (*Lasiohelea*). China.
ancoriformis Tokunaga, *in* Tokunaga and Murachi, 1959: 226. Micronesia.
anthropophila (Harant, Huttel and Huttel), 1951: 468 (*Parapterobosca*). Ivory Coast.
attenuata Saunders, 1964: 469. Costa Rica.
baltea Boorman, 1990: 128. Oman.
bambusa (Liu and Yu), 1996: 50 (*Lasiohelea*). China. **NEW COMBINATION.**
boophila Lien, 1991: 85. Taiwan.
brevisicae Debenham, 1983: 26. Australia (New South Wales).
brevitarsata (Ingram and Macfie), 1924a: 385 (*Lasiohelea*). Ghana.
caesariata Debenham, 1983: 8. Australia (Queensland).
caledonica Clastrier and Delécolle, 1993: 132. New Caledonia (France).
carolinensis (Tokunaga), 1940a: 208 (*Lasiohelea*). Micronesia.
citowitschi Debenham, 1983: 17. Australia (Queensland).

collicola Lien, 1989: 43. Taiwan.
colum Debenham, 1983: 7. Papua New Guinea.
cornuta Saunders, 1964: 464. Costa Rica.
crocea Debenham, 1983: 15. Papua New Guinea.
cubitalis (Kieffer), 1918a: 88 (*Ceratopogon*). Singapore.
cuculli Debenham, 1983: 34. Australia (Queensland).
cultella (Yu and Xiang), *in* Yu, 1988: 128 (*Lasiohelea*, as *Lasoihelea*). China. **NEW COMBINATION.**
dandongensis (Ding and Yu), 1990: 53 (*Lasiohelea*). China. **NEW COMBINATION.**
danxianensis (Yu and Liu), 1982a: 25 (Yu and Liu, 1982b: 306; Yu, 1982: 203) (*Lasiohelea*). China.
diaoluoensis (Yu and Liu), 1982a: 26 (Yu and Liu, 1982b: 306; Yu, 1982: 203) (*Lasiohelea*). China.
divergena (Yu and Wen), *in* Yu and Liu, 1982a: 28 (*Lasiohelea*). China. **NEW COMBINATION.**
emeishana (Yu and Liu), 1982a: 31 (Yu and Liu, 1982b: 300) (*Lasiohelea*). China.
fairfaxensis Wirth, 1951d: 317. USA (Virginia).
fenestrarum Debenham, 1983: 25. Australia (New South Wales).
flaveola Clastrier and Delécolle, 1993: 136. New Caledonia (France).
flavescens Saunders, 1964: 471. Philippines.
gramencola Lien, 1991: 90. Taiwan.
gripha Borkent, in this work. New name for *paradoxa*.
paradoxa (Yu and Liu), 1990: 16 (*Lasiohelea*, preoccupied by *Forcipomyia paradoxa* Krivosheina, 1968). China. **NEW COMBINATION.**
guangxiensis (Lee), 1975: 435 (*Lasiohelea*). China.
hicksae Debenham, 1983: 30. Australia (Queensland).
homaliae Lien, 1991: 90. Taiwan.
hortensis (Yu and Liu), 1981: 62 (*Lasiohelea*). China.
hualuensis Lien, 1989: 49. Taiwan.
humilavolita (Yu and Liu), 1982a: 34 (Yu and Liu, 1982b: 302) (*Lasiohelea*). China.
incomposita Debenham, 1983: 20. Papua New Guinea.
infans Debenham, 1983: 28. Australia (Queensland).
insigniforceps Macfie, 1939c: 165. Brazil.
intermedia Saunders, 1964: 468. Costa Rica.
kamilaroi Debenham, 1983: 29. Australia (New South Wales).
labidentis (Yu and Liu), 1982a: 37 (Yu and Zhang, 1982: 187) (*Lasiohelea*). China.
lanyuensis Lien, 1989: 54. Taiwan.
latiunguis Clastrier, 1983c: 47. Seychelles.
lefanui Carter, 1916: 131. Ghana.
atratula Goetghebuer, 1935d: 149. Zaire.
atrosetosa Goetghebuer, 1935d: 149. Zaire.
squamipes (Ingram and Macfie), 1924a: 385 (*Lasiohelea*, as variety of *lefanui*, preoccupied by *Forcipomyia squamipes* (Coquillett), 1902a). Probably Tanzania.
longicornis (Tokunaga), 1940d: 103 (*Lasiohelea*). Japan.
longineura Saunders, 1964: 470. Philippines.
lushana (Yu and Liu), 1982a: 38 (Yu and Wang, 1982: 19; Yu, 1982: 203) (*Lasiohelea*). China.
magnispinosa Clastrier and Delécolle, 1993: 137. New Caledonia (France).
mahensis (Kieffer), 1911c: 339 (*Ceratopogon*). Seychelles.
maricarmenae Sahuquillo and Gil Collado, 1982: 303. Spain.
matsumurai Kitaoka, 1994: 3. Japan.
megadentis Lien, 1989: 57. Taiwan.
mengi (Yu and Liu), *in* Liu and Yu, 1996: 49 (*Lasiohelea*). China. **NEW COMBINATION.**
ministra Debenham, 1983: 32. Australia (Northern Territory).
mixta (Yu and Liu), 1982a: 40 (Yu and Liu, 1982b: 301) (*Lasiohelea*). China.
montana de Meillon and Downes, 1986: 147. South Africa.
mopsa de Meillon and Hardy, 1954: 71. South Africa.
moriokensis Kitaoka, 1994: 1. Japan.
multispina (He and Yu), 1990: 63 (*Lasiohelea*). China.
nanjingensis (Yu and Liu), 1982a: 41 (Yu and Wang, 1982: 20) (*Lasiohelea*). China.
nasuensis Kitaoka, 1994: 3. Japan.

nema Debenham, 1983: 19. Australia (Queensland).
nhulunbuyensis Debenham, 1983: 32. Australia (Northern Territory).
nigeriae (Ingram and Macfie), 1924a: 382 (*Lasiohelea*). Nigeria.
dewulfi (Goetghebuer), 1933e: 136 (*Lasiohelea*). Zaire.
nipponica (Tokunaga), 1940d: 102 (*Lasiohelea*). Japan.
nudocola (Tokunaga), 1937a: 269 (*Lasiohelea*). Japan.
oreita (Liu and Yu), 1996: 51 (*Lasiohelea*). China. **NEW COMBINATION.**
oxyria (Yu and Liu), *in* Yu et al., 1985: 72 (*Lasiohelea*). China.
paenedentula Debenham, 1983: 16. Australia (Queensland).
parenthesis Debenham, 1983: 24. Australia (Queensland).
paucidentis Lien, 1991: 98. Taiwan.
parvitas (Liu and Yu), 1996: 49 (*Lasiohelea*). China. **NEW COMBINATION.**
perae Debenham, 1983: 23. Solomon Islands.
perangusta (Goetghebuer), 1935d: 168 (*Dasyhelea*). Zaire.
peregrinator Debenham, 1983: 12. Australia (Queensland).
phototropia (Yu and Liu), 1982a: 45 (Yu and Zhang, 1982: 189) (*Lasiohelea*). China.
plumosa Debenham, 1983: 9. Papua New Guinea.
propria Chan and LeRoux, 1970: 272. Malaysia.
pungobovis (Yu and Liu), 1982a: 48 (*Lasiohelea*). China. **NEW COMBINATION.**
putea Debenham, 1983: 14. Australia (Queensland).
quasicornuta Saunders, 1964: 467. Costa Rica.
quinquedentis (Yu and Zhou), *in* Yu, 1988: 129 (*Lasiohelea*). China. **NEW COMBINATION.**
rastraria Debenham, 1983: 10. Australia (Northern Territory).
relicta (Yu and Wen), *in* Yu and Liu, 1982a: 50 (*Lasiohelea*). China. **NEW COMBINATION.**
richardlanei Clastrier, 1983c: 50. Seychelles.
russelli Debenham, 1983: 11. Australia (Queensland).
saltensis (Cavalieri), 1962: 360 (*Lasiohelea*). Argentina.
saxicola Lien, 1991: 98. Taiwan.
serridentata Debenham, 1983: 18. Solomon Islands.
sibirica (Buyanova), 1962: 43 (*Lasiohelea*). Russia.
spinipenis Tokunaga, *in* Tokunaga and Murachi, 1959: 227. Belau (USA).
squamitarsata (Clastrier), 1959b: 351 (*Lasiohelea*). Senegal.
stimulans (de Meijere), 1909: 197 (*Ceratopogon*). Indonesia.
stylifer (Lutz), 1913: 63 (*Centrorhynchus*). Brazil.
succinea Szadziewski, 1988: 194. Poland. Eocene–Lower Oligocene.
taipei Lien, 1991: 102. Taiwan.
taiwana (Shiraki), 1913: 291 (*Ceratopogon*). Taiwan.
notialis (Yu and Liu), 1982a: 43 (*Lasiohelea*). China. **NEW COMBINATION.**
taoyuanensis Lien, 1989: 72. Taiwan.
thabinana de Meillon, 1959b: 6. South Africa.
thiensis Clastrier and Delécolle, 1993: 139. New Caledonia (France).
townsvillensis (Taylor), 1918: 169 (*Culicoides*). Australia (Queensland).
turgepeda (Yu and Liu), 1982a: 52 (Yu and Liu, 1982b: 304) (*Lasiohelea*). China.
uncusipenis (Yu and Liu), 1982a: 52 (Yu and Zhang, 1982: 187) (*Lasiohelea*). China.
uncuspromissa Chan and LeRoux, 1970: 276. Singapore.
ussurica Remm, 1971: 190. Russia.
velox (Winnertz), 1852: 28 (*Ceratopogon*). Germany.
halterata (Winnertz), 1852: 28 (*Ceratopogon*). Germany.
nitens (Kieffer), 1919a: 20 (*Ceratopogon*, preoccupied by *Forcipomyia nitens* (Santos Abreu), 1918). Hungary.
pilosipennis (Kieffer), 1919a: 23 (*Atrichopogon*). Hungary, Slovak Republic.
hungarica (Kieffer), 1921d: 298 (*Ceratopogon*). New name for *nitens*.
decrescens Kieffer, 1924b: 391. France.
silesiae (Kieffer), 1925d: 49 (*Lasiohelea*). Hungary.

montschadskyi (Dzhafarov), 1962c: 196 (*Lasiohelea*). Azerbaijan.
virgula (Yu and Wen), *in* Yu et al., 1985: 73 (*Lasiohelea*). China.
wanjungensis Lien, 1989: 72. Taiwan.
whitcombei Boorman, 1990: 126. Oman.
wulai Lien, 1991: 109. Taiwan.
wuyiensis (Shen and Yu), 1990: 66 (*Lasiohelea*). China. **NEW COMBINATION.**
zhenbaodaoensis (Yu and Liu), 1987: 83 (*Lasiohelea*). China. **NEW COMBINATION.**
zonaphalla (Yu and Liu), 1982a: 53 (Yu and Liu, 1982b: 305) (*Lasiohelea*). China.

Subgenus LEPIDOHELEA Kieffer

LEPIDOHELEA Kieffer, 1917b: 364. Type species: *Ceratopogon chrysolophus* Kieffer, by original designation.

abercrombyi Macfie, 1938: 161. Trinidad and Tobago.
acinacium Debenham, 1987c: 329. Australia (New South Wales).
acinacis Wirth and Spinelli, 1993b: 615. USA (Maryland).
adversari Debenham, 1987c: 321. Australia (Queensland).
anguliforceps Tokunaga, 1940c: 94. Japan.
annulatipes Macfie, 1939c: 154. Brazil.
bahiensis Wirth and Spinelli, 1993a: 113. Brazil.
basendjiorum Dessart, 1962: 140. Zaire.
basifemoralis Wirth and Spinelli, 1993a: 113. Jamaica.
beckae Wirth, 1976b: 82. USA (Florida).
bicolor Lutz, 1914: 89. Brazil.
discoloripes Macfie, 1939c: 159. Brazil.
bifida Wirth and Spinelli, 1993a: 115. Jamaica.
bifurcifera Tokunaga, 1959: 281. Papua New Guinea.
brasiliensis Macfie, 1939c: 153. Brazil.
bullata Debenham, 1987c: 315. Australia (Capital Territory).
cacaoi Dessart, 1963: 186. New name for *theobromae*.
theobromae Dessart, 1961: 367 (preoccupied by *Forcipomyia theobromae* Kieffer, 1912c). Zaire.
calotricha Kieffer, 1911b: 322. India.
cerbera Debenham, 1987c: 335. Australia (New South Wales).
christiansoni Wirth and Hubert, 1960a: 640. USA (California).
chrysolopha (Kieffer), 1911c: 333 (*Ceratopogon*). Seychelles.
grata Goetghebuer, 1935d: 153 (preoccupied by *Forcipomyia grata* Macfie, 1934c). Zaire.
guttatella Goetghebuer, 1935d: 146 (also as *guttatula*). Zaire.
annulator Goetghebuer, 1948b: 6. New name for *grata*.
cochisei Wirth and Spinelli, 1993b: 618. USA (Arizona).
convexipenis Wirth and Spinelli, 1993a: 116. Colombia.
davidi Debenham, 1987c: 330. Australia (New South Wales).
demeter Debenham, 1987c: 319. Australia (Victoria).
dubia Macfie, 1939c: 162. Brazil.
dubiamima Wirth and Spinelli, 1993b: 620. USA (Maryland).
eadsi Wirth and Spinelli, 1993b: 622. USA (Texas).
edmistoni Wirth and Spinelli, 1993b: 624. USA (Maryland).
euthystyla Wirth and Spinelli, 1993a: 117. Colombia.
flavifemoris Macfie, 1940d: 24. Guyana.
pulcherrima Santos Abreu, 1918: 272. Canary Islands (Spain).
formosae (Kieffer), 1922b: 153 (*Lepidohelea*). Taiwan.
lepidota Ingram and Macfie, 1924b: 566. Ghana.
ornatipes (Kieffer), 1921b: 1 (*Lepidohelea*, preoccupied by *Forcipomyia ornatipes* (Kieffer), 1918a). Cameroon.
variegata Goetghebuer, 1933e: 133. Zaire.
grata Macfie, 1934c: 178 (1934d: 203). Malaysia.
gravesi Wirth and Spinelli, 1993a: 119. USA (North Carolina).
hastata de Meillon and Wirth, 1981c: 565. South Africa.
herediae Wirth and Spinelli, 1993a: 119. Costa Rica.
hobbsi Wirth and Spinelli, 1993a: 121. Dominica.
ikinae de Meillon, Meiswinkel and Wirth, 1982: 127. South Africa.
kuanoskeles Macfie, 1939c: 150. Brazil.
lacrimatorii Macfie, 1939c: 161. Brazil.

lagoenae Debenham, 1987c: 327. Australia (New South Wales).
luteigenua Wirth and Spinelli, 1992: 353. Costa Rica.
maculosicrura Tokunaga, 1959: 265. Papua New Guinea.
manis Debenham, 1987c: 344. Papua New Guinea.
matilei Clastrier and Delécolle, 1991: 203. New Caledonia (France).
medipala Debenham, 1987c: 320. Australia (New South Wales).
paenulata Debenham, 1987c: 334. Australia (Western Australia).
palliscuta Tokunaga, 1959: 259. Papua New Guinea.
pampoikila Ingram and Macfie, 1924b: 570. Ghana.
parvicrater Debenham, 1987c: 336. Australia (Capital Territory).
pictisquamipennis Tokunaga, 1959: 260. Papua New Guinea.
pricei Wirth and Spinelli, 1993b: 627. USA (Texas).
quinqueremis Debenham, 1987c: 341. Papua New Guinea.
randensis de Meillon, 1931: 335. South Africa.
randensoides Dessart, 1961: 364. Zaire.
roseae de Meillon, Meiswinkel and Wirth, 1982: 129. South Africa.
scurra Debenham, 1987c: 340. Australia (Queensland).
semihamata Debenham, 1987c: 339. Australia (New South Wales).
seminole Wirth, 1976b: 81. USA (Florida).
semota Debenham, 1987c: 328. Australia (Queensland).
squamipennis Ingram and Macfie, 1924b: 562. Ghana.
squamithorax Clastrier, 1972b: 170. French Guiana.
statirae de Meillon, 1936: 165. South Africa.
tibialis Remm, 1961a: 188. Estonia.
tortuosa Debenham, 1987c: 322. Australia (New South Wales).
unifascicornis Tokunaga, 1959: 263. Papua New Guinea.
unitheca Tokunaga, *in* Tokunaga and Murachi, 1959: 183. Belau (USA).
usingeri Wirth and Spinelli, 1993b: 627. USA (California).
varipennis Wirth and Williams, 1957: 8. Bermuda (Great Britain).
venusta Ingram and Macfie, 1924b: 569. Ghana.
weemsi Wirth and Spinelli, 1993a: 123. USA (Florida).
werneri Wirth and Spinelli, 1993b: 632. Mexico.
winderi Wirth, 1991b: 171. Brazil.

Subgenus METAFORCIPOMYIA Saunders

METAFORCIPOMYIA Saunders, 1957: 685 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia cerifera* Saunders, by original designation.

campana Debenham, 1987b: 193. Australia (New South Wales).
cerifera Saunders, 1957: 685. Brazil.
colona Debenham, 1987b: 191. Australia (Capital Territory).
crepidinis Debenham, 1987b: 196. Australia (Western Australia).
furculae Debenham, 1987b: 190. Papua New Guinea.
hesiones de Meillon, 1936: 167. South Africa.
novaguineae Tokunaga, 1959: 289. Papua New Guinea.
pluvialis Malloch, 1923: 5. USA (Maryland).
rupicola Debenham, 1987b: 194. Australia (New South Wales).
stewarti de Meillon and Downes, 1986: 149. South Africa.
stigmatipennis Tokunaga, 1959: 268. Papua New Guinea.
tomaculorum Debenham, 1987b: 188. Australia (New South Wales).
triclotae Clastrier and Delécolle, 1991: 209. New Caledonia (France).

Subgenus MICROHELEA Kieffer

MICROHELEA Kieffer, 1917b: 364. Type species: *Atrichopogon microtomus* Kieffer, designation by Kieffer, 1921b: 7, with explanatory notation on erroneous previous type designation).
PHASMIDOHELEA Mayer, 1937: 233. Type species: *Phasmidohelea crudelis* Mayer

(= *Ceratopogon fuliginosus* Meigen), by original designation.

abbaekiefferi Debenham, 1987d: 656. Papua New Guinea.
alleni Clastrier and Wirth, 1995: 117. Costa Rica.
amazonica Wirth, 1971b: 241. Brazil.
amieuensis Clastrier and Delécolle, 1993: 149. New Caledonia (France).
antioquiae Clastrier and Wirth, 1995: 142. Colombia.
arnhemi Debenham, 1987d: 652. Australia (Northern Territory).
asquamata Clastrier and Delécolle, 1993: 142. New Caledonia (France).
australiensis (Kieffer), 1917a: 178 (*Ceratopogon*). Papua New Guinea.
belemensis Clastrier and Wirth, 1995: 140. Brazil.
brasiliana Clastrier and Wirth, 1995: 116. Peru.
breelandi Clastrier and Wirth, 1995: 114. Panama.
brevilabellata Clastrier and Wirth, 1995: 136. French Guiana.
broadheadi Clastrier and Wirth, 1995: 129. Panama.
castneri Clastrier and Wirth, 1995: 111. Peru.
catarina Clastrier and Wirth, 1995: 131. Brazil.
coheni Clastrier and Wirth, 1995: 132. Ecuador.
colombiana Clastrier and Wirth, 1995: 102. Colombia.
cristata Clastrier and Wirth, 1995: 135. Brazil.
cylindripalpis Clastrier and Delécolle, 1993: 147. New Caledonia (France).
desutterae Clastrier and Wirth, 1995: 100. French Guiana.
donskoffi Clastrier and Wirth, 1995: 125. French Guiana.
dunklei Clastrier and Wirth, 1995: 130. Peru.
eriophora (Williston), 1896: 279 (*Ceratopogon*). St. Vincent.
esakiana Tokunaga, 1940a: 206. Micronesia.
felippebauerae Clastrier and Wirth, 1995: 122. Peru.
galbiventris Borkent, in this work. New name for *flaviventris*.
flaviventris (Kieffer), 1917a: 179 (*Ceratopogon*, preoccupied by *Palpomyia flaviventris* (Czerny and Strobl), 1909). Papua New Guinea.
grandcolasi Clastrier and Wirth, 1995: 112. French Guiana.
flavitibialis Tokunaga and Murachi, 1959: 170. Micronesia.
franklini Clastrier and Wirth, 1995: 141. Costa Rica.
fuliginata Clastrier, 1983c: 54. Seychelles.
fuliginosa (Meigen), 1818: 86 (*Ceratopogon*). Germany.
villosa (Zetterstedt), 1850: 3645 (*Ceratopogon*). Sweden.
crudelis (Karsch), 1886: 18 (*Ceratopogon*). Germany.
hirtipes (de Meijere), 1907: 209 (*Ceratopogon*). Indonesia.
brevimana Lundström, 1910: 32. Finland.
callithorax (Kieffer), 1911c: 335 (*Ceratopogon*, as variety of *lasionota*). Seychelles.
erucicida Knab, 1914: 65. USA (Florida).
crudelis Knab, 1914: 66 (preoccupied by *Forcipomyia crudelis* (Karsch), 1886). Mexico.
coquilletti (Kieffer), 1917b: 297 (*Ceratopogon*). USA (New York).
tropica (Kieffer), 1917b: 297 (*Ceratopogon*). Costa Rica.
obscura Santos Abreu, 1918: 276 (as variety of *bipunctata*, preoccupied by *Forcipomyia obscura* (Walker), 1848). Canary Islands (Spain).
alboclavata (Kieffer), 1919a: 12 (*Ceratopogon*, also as *asticta*). Slovak Republic.
canaliculata (Goetghebuer), 1920: 110 (*Ceratopogon*). Belgium.
nilotheres Macfie, 1924: 62. Egypt.
ornaticrus Ingram and Macfie, 1924b: 577 (as variety of *inornatipennis*; preoccupied by *Forcipomyia ornaticrus* Kieffer, 1912c). Ghana.
atripennis Goetghebuer, 1935d: 149. Zaire.
auripila Goetghebuer, 1935d: 150. Zaire.
curtimana Goetghebuer, 1935d: 151. Zaire.
grisescens Goetghebuer, 1935d: 154. Zaire.
vicina Goetghebuer, 1935d: 161. Zaire.

longiradialis Tokunaga, 1940c: 66. Japan.
takagii Tokunaga, 1941b: 90. China.
wansoni (Harant and Baur), 1946: 141 (*Lasiohelea*, preoccupied by *Forcipomyia wansoni* de Meillon, 1939a). Zaire.
brookmani Wirth, 1952a: 140. USA (California).
santosi Remm, 1981: 32. New name for *obscura*.

galapagensis (Coquillett), 1901b: 372 (*Ceratopogon*). Galápagos Islands (Ecuador).
globularis Edwards, 1928: 48. Western Samoa.
gressitti Tokunaga and Murachi, 1959: 152. Belau (USA).
guyana Clastrier and Wirth, 1995: 124. French Guiana.
inflatipalpis Clastrier and Delécolle, 1993: 153. New Caledonia (France).
inornatipennis (Austen), 1912: 107 (*Ceratopogon*). Nigeria.
insignipalpis Macfie, 1949: 109. Mexico.
insulae Clastrier and Delécolle, 1993: 151. New Caledonia (France).
intonsa Chan and LeRoux, 1971b: 743. Singapore.
iquitosensis Clastrier and Wirth, 1995: 139. Peru.
ixodoides (Fiebrig-Gertz), 1928: 290 (*Ceratopogon*). Paraguay.
kawensis Clastrier and Wirth, 1995: 120. French Guiana.
lasionota (Kieffer), 1911c: 334 (*Ceratopgon*). Seychelles.
lignaria Debenham, 1987d: 655. Australia (Queensland).
luteisquamosa Wirth, 1972: 575. Brazil.
mayeri Forattini and Lane, 1955: 4. New name for *crudelis*.
crudelis (Mayer), 1937: 233 (*Phasmidohelea*, preoccupied by *Forcipomyia crudelis* (Karsch), 1886). Costa Rica.
menzeli Clastrier and Wirth, 1995: 106. Ecuador.
microtoma (Kieffer), 1917b: 299. Brazil.
minisquamosa Wirth, 1972: 570. Belize.
moorei Clastrier and Wirth, 1995: 133. Brazil.
neotropica Clastrier and Wirth, 1995: 126. Peru.
nibleyi Tokunaga, 1962a: 178. Japan.
nigrimaxillata Clastrier and Wirth, 1995: 118. Peru.
novaeteutoniae Clastrier and Wirth, 1995: 107. Brazil.
obesa Costa Lima, 1928: 85. Brazil.
ocrearum Debenham, 1987d: 664. Papua New Guinea.
ornata Tokunaga, 1940c: 61 (1940e: 166). Belau (USA).
penultimata Wirth, 1972: 573. Brazil.
peruviana Clastrier and Wirth, 1995: 123. Peru.
plaumanni Clastrier and Wirth, 1995: 127. Brazil.
proximornata Debenham, 1987d: 657. Papua New Guinea.
raposoensis Clastrier and Wirth, 1995: 144. Colombia.
rettenmeyerorum Clastrier and Wirth, 1995: 104. Panama.
serrulifimbria Tokunaga, 1959: 283. Papua New Guinea.
squamosa Lutz, 1914: 87. Brazil.
stelechos Debenham, 1987d: 649. Australia (Queensland).
subspadicifascia Tokunaga and Murachi, 1959: 167. Micronesia.
tettigonaris Wirth and Castner, 1990: 159. Peru.
thomasi Clastrier and Wirth, 1995: 115. Brazil.
tiwaka Clastrier and Delécolle, 1993: 144. New Caledonia (France).
tuthilli Tokunaga, *in* Tokunaga and Murachi, 1959: 174. Marshall Islands.
valleensis Clastrier and Wirth, 1995: 145. Colombia.
vernoni Clastrier and Wirth, 1995: 138. Colombia.
wagneri (Séguy), 1941: 85 (*Phasmidohelea*). Brazil.
walschaertsi Gosseries, 1989: 3. New name for *monilis*.
monilis Tokunaga, 1962a: 179 (preoccupied by *Forcipomyia monilis* (Goetghebuer), 1934c). Japan.
willisi Debenham, 1987d: 661. Australia (New South Wales).
willistoni Wirth, 1971b: 242. Puerto Rico (USA).

Subgenus PANHELEA Remm

PANHELEA Remm, 1980: 117 (as subgenus of *Forcipomyia*). Type species: *For-*

cipomyia pontica Remm (= *Ceratopogon brevicubitus* Goetghebuer), by original designation.

brevicubita (Goetghebuer), 1920: 27 (*Ceratopogon*). Belgium.
pontica Remm, *in* Remm and Zhogolev, 1968: 831. Ukraine.
hissarica Remm, 1980: 117. Tajikistan.

Subgenus PEDILOHELEA de Meillon and Wirth

PEDILOHELEA de Meillon and Wirth, 1980: 9 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia clastrieri* Dessart, by original designation.

aitkeni de Meillon and Wirth, 1980: 12. Brazil.
archboldi de Meillon and Wirth, 1980: 13. Dominica.
australis Clastrier and Delécolle, 1991: 212. New Caledonia (France).
brinchangensis de Meillon and Wirth, 1980: 14. Malaysia.
brincki de Meillon, 1959a: 328. South Africa.
clastrieri Dessart, 1963: 183. New name for *brevitarsata*.
brevitarsata (Clastrier), 1959c: 345 (*Lepidohelea*, preoccupied by *Forcipomyia brevitarsata* (Ingram and Macfie), 1924). Senegal.
draconis de Meillon and Wirth, 1980: 17. South Africa.
eshowensis de Meillon, 1937b: 361. South Africa.
forcipis de Meillon and Wirth, 1980: 18. Malaysia.
haroldi de Meillon and Wirth, 1989b: 208. South Africa.
proavia Debenham, 1987d: 642. Australia (Capital Territory).
raposoi de Meillon and Wirth, 1980: 21. Colombia.
spangleri de Meillon and Wirth, 1980: 21. Guatemala.
spilmani de Meillon and Wirth, 1980: 22. Dominica.
tasmani Macfie, 1932c: 27. New Zealand.

Subgenus PHYTOHELEA Remm

PHYTOHELEA Remm, 1971: 189 (as subgenus of *Forcipomyia*). Type species: *Ceratopogon bromelicola* Lutz, by original designation.

alocasiae Tokunaga, 1961b: 120. Papua New Guinea.
antiguensis Saunders, 1957: 700. Antigua.
bacoti (Ingram and Macfie), 1923: 55 (*Apelma*). Sierra Leone.
natalia (de Meillon), 1936: 158 (*Lasiohelea*). South Africa.
belkini de Meillon and Wirth, 1979e: 198. New Zealand.
brevis (Johannsen), 1927c: 205 (*Apelma*). USA (Hawaii).
bromelicola (Lutz), 1914: 84 (*Ceratopogon*). Brazil.
caribbeana Saunders, 1957: 696. Trinidad and Tobago.
comis Johannsen, 1932: 409. Indonesia.
crinume (Tokunaga), 1932: 1 (*Dasyhelea*). Japan.
dominicana de Meillon and Wirth, 1979e: 195. Dominica.
edwardsi (Saunders), 1925: 260 (*Apelma*). Brazil.
eophytoheleana Szadziewski, 1988: 215. Baltic region. Eocene–Lower Oligocene.
fijiensis (Macfie), 1945: 1 (*Apelma*). Fiji.
forfices Debenham, 1987a: 114. Australia (Queensland).
grandis Chan and LeRoux, 1971b: 758. Singapore.
hamaticauda Tokunaga, *in* Tokunaga and Murachi, 1959: 212. Belau (USA).
jocosa Saunders, 1957: 701. Trinidad and Tobago.
keilini (Saunders), 1925: 265 (*Apelma*). Brazil.
magna (Saunders), 1925: 266 (*Apelma*). Brazil.
marksae Tokunaga, 1961b: 117. Papua New Guinea.
musae Clastrier and Delécolle, 1994: 51. French Guiana.
nicopina Chan and LeRoux, 1971b: 754. Singapore.
oligarthra Saunders, 1957: 698. Puerto Rico (USA).
sabroskyi Tokunaga, *in* Tokunaga and Murachi, 1959: 211. Belau (USA).
tzaneenensis de Meillon and Wirth, 1979e: 184. South Africa.

Subgenus PTEROBOSCA Macfie

PTEROBOSCA Macfie, 1932a: 266. Unavailable name; proposed after 1930 without type species designation.

PTEROBOSCA Macfie, 1940f: 16. Type species: *Ceratopogon aeschnosuga* de Meijere, by original designation.

adhesipes (Macfie), 1932a: 270 (*Pterobosca*). Indonesia.
aerobates (Macfie), 1936a: 64 (*Pterobosca*). India.
aeschnosuga (de Meijere), 1923: 137 (*Ceratopogon*). Indonesia.
ariel (Macfie), 1932a: 275 (*Pterobosca*). Indonesia.
asahinai Tokunaga, 1962a: 188. Japan.
chrysopipennis Wirth, 1966: 29. New name for *chrysopae*.
chrysopae Tokunaga, *in* Tokunaga and Murachi, 1959: 235 (preoccupied by *Forcipomyia chrysopae* Mayer, 1934b). Belau (USA).
esakii (Tokunaga), 1940a: 210 (*Pterobosca*). Mariana Islands (USA).
esakia Tokunaga, *in* Tokunaga and Murachi, 1959: 234. New name for *esakii*.
farri Wirth, 1966: 29. Jamaica.
feminae (Tokunaga), 1940c: 100 (1940e: 168) (*Pterobosca*). Belau (USA).
fidens (Macfie), 1936b: 228 (*Pterobosca*). China.
fusicornis (Coquillett), 1905: 63 (*Ceratopogon*). USA (Florida).
fur (Johnson), 1913: 444 (*Ceratopogon*). Bermuda (Great Britain).
macfiei (Costa Lima), 1937b: 616 (*Pterobosca*). Brazil.
floridana (Johannsen), 1950: 143 (*Pterobosca*). USA (Florida).
hutsoni Wirth and Ratanaworabhan, 1976: 242. Aldabra (Seychelles).
incubans (Macfie), 1937c: 111 (*Pterobosca*). Belize.
lairdi (Wirth), 1956a: 363 (*Pterobosca*). Solomon Islands.
latipes (Macfie), 1936b: 227 (*Pterobosca*). China.
mollipes (Macfie), 1932a: 272 (*Pterobosca*). Liberia.
odonatiphila (Macfie), 1932a: 274 (*Pterobosca*). Indonesia.
ogatai Tokunaga, 1961c: 3. New Caledonia (France).
paludis (Macfie), 1936a: 63 (*Pterobosca*). Great Britain.
pinheyi Clastrier and Legrand, 1984: 173. Mauritius.
tokunagai (Oka and Asahina), 1948: 107 (*Pterobosca*). Japan.

Subgenus RHINOHELEA de Meillon and Wirth

RHINOHELEA de Meillon and Wirth, 1979d: 881 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia briani* de Meillon and Wirth, by original designation.

briani de Meillon and Wirth, 1979d: 882. South Africa.
khoisana de Meillon and Wirth, 1979d: 885. South Africa.

Subgenus RHYNCHOFORCIPOMYIA Wirth and Dow

RHYNCHOFORCIPOMYIA Wirth and Dow, 1972: 863 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia messersmithi* Wirth and Dow, by original designation.

brachyrhyncha Wirth and Dow, 1972: 867. Colombia.
cylindrica Wirth and Dow, 1972: 865. El Salvador.
dorsalis Wirth and Dow, 1972: 870. Mexico.
guamai Wirth and Dow, 1972: 869. Brazil.
messersmithi Wirth and Dow, 1972: 864. El Salvador.
puracensis Wirth and Dow, 1972: 867. Colombia.
zeteki Wirth and Dow, 1972: 870. Panama.

Subgenus SALIOHELEA Wirth and Ratanaworabhan

SALIOHELEA Wirth and Ratanaworabhan, 1978: 494 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia leei* Wirth and Ratanaworabhan, by original designation.

boudinoti Clastrier and Delécolle, 1991: 216. New Caledonia (France).

brevicosta (Clastrier), 1960c: 520 (*Lasiohelea*). Zaire.
deminuta Tokunaga and Murachi, 1959: 219. Micronesia.
leei Wirth and Ratanaworabhan, 1978: 498. Colombia.
stami Wirth and Ratanaworabhan, 1978: 502. Zaire.

Subgenus SCHINEROMYIA Debenham

SCHINEROMYIA Debenham, 1987a: 67 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia gandangara* Debenham, by original designation.

gandangara Debenham, 1987a: 67. Australia (New South Wales).

Subgenus SCHIZOFORCIPOMYIA Chan and LeRoux

SCHIZOFORCIPOMYIA Chan and LeRoux, 1971a: 271 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia petersoni* Chan and LeRoux (= *Forcipomyia borbonica* Clastrier), by original designation.

anna de Meillon, 1959a: 331. South Africa.
borbonica Clastrier, 1959c: 436. Réunion (France).
penniornata Tokunaga and Murachi, 1959: 163. Guam (USA).
fuscimaculata Hardy, 1960: 170. USA (Hawaii).
stabilis Sen and Das Gupta, 1968: 95. India.
petersoni Chan and LeRoux, 1971a: 272. Singapore.
chazeaui Clastrier and Delécolle, 1991: 222. New Caledonia (France).
cinctipes (Coquillett), 1905: 64 (*Ceratopogon*). USA (Florida).
clavula Debenham, 1987d: 639. Australia (New South Wales).
lecordeurorum de Meillon, Meiswinkel and Wirth, 1982: 132. South Africa.
lydiae Clastrier and Delécolle, 1991: 219. New Caledonia (France).
monoceros Debenham, 1987d: 634. Australia (New South Wales).
rudebecki de Meillon, 1959a: 330. South Africa.
tinia Krivosheina, 1968: 583. Russia.
warreni de Meillon and Wirth, 1981b: 528. South Africa.
yirrkala Debenham, 1987d: 636. Australia (Northern Territory).

Subgenus SYNTHYRIDOMYIA Saunders

SYNTHYRIDOMYIA Saunders, 1957: 688 (as subgenus of *Forcipomyia*). Type species: *Lasiohelea acidicola* Tokunaga, by original designation.

acidicola (Tokunaga), 1937b: 455 (*Lasiohelea*). Japan.
minuta Goetghebuer, 1947: 228 (preoccupied by *Forcipomyia minuta* (Tokunaga), 1940d). Belgium.
colemani Wirth, 1952a: 146. USA (California).
ansericolli Debenham, 1987a: 59. Australia (Northern Territory).
bucera Debenham, 1987a: 55. Australia (Queensland).
caestuum Debenham, 1987a: 53. Australia (Queensland).
corsoni Macfie, 1926: 355. Tanzania.
exigua Ingram and Macfie, 1924b: 587. Ghana.
floridensis Dow and Wirth, 1972: 195. USA (Florida).
knockensis Goetghebuer, 1938: 375. Belgium.
bequaerti Goetghebuer, 1942: 1. Belgium.
abludens Remm, *in* Remm and Zhogolev, 1968: 830. Ukraine.
margaritae Szadziewski, 1983a: 377. Algeria.
murina (Winnertz), 1852: 26 (*Ceratopogon*). Europe.
abdominalis (Santos Abreu), 1918: 265 (*Helea*, as variety of *murina*). Canary Islands (Spain).
aurosparsum (Kieffer), 1919a: 65 (*Apelma*). Hungary.
sulfurea Kieffer, 1923a: 664. Algeria.
hirtipalpis Kieffer, 1924b: 392. France.
sate Kieffer, 1925e: 245. Egypt.
longitarsis Tokunaga, 1940c: 92 (preoccupied by *Forcipomyia longitarsis* (Malloch), 1915b). Taiwan.
moascari Macfie, 1943a: 147. Egypt.
attonsa Goetghebuer, 1950: 1. Belgium.
tokunagai Wirth, 1973: 356 (preoccupied by

Forcipomyia tokunagai (Oka and Asahina), 1948. New name for *longitarsis*.
submurina Remm, 1980: 115 (as *sibmurina*, as subspecies of *murina*). Russia.
operimenti Debenham, 1987a: 58. Australia (Queensland).
oryx Debenham, 1987a: 54. Australia (Northern Territory).
sanctaeclarae Wirth, 1952b: 90. Chile.
tenuiforceps Macfie, 1939c: 167. Brazil.
tympanista Debenham, 1987a: 56. Australia (Queensland).
unituberculata Tokunaga, *in* Tokunaga and Murachi, 1959: 197. Belau (USA).

Subgenus THYRIDOMYIA Saunders

THYRIDOMYIA Saunders, 1925: 268. Type species: *Thyridomyia palustris* Saunders (= *Ceratopogon monilicornis* Coquillett), by original designation.

angelicae Tokunaga, 1940c: 97. Japan.
biskraensis Kieffer, 1923a: 665 (as variety of *seneveti*). Algeria.
sergenti Clastrier, 1956: 502. Algeria.
imeretica Remm, 1967: 5. Georgia.
blascoi Delécolle and Rieb, 1993: 112. Spain.
carolinea Tokunaga, *in* Tokunaga and Murachi, 1959: 214. Belau (USA).
colombiae Wirth, 1970: 435. Colombia.
falcinella (Kieffer), 1911c: 338 (*Ceratopogon*). Seychelles.
frutetorum (Winnertz), 1852: 29 (*Ceratopogon*). Germany.
seneveti Kieffer, 1922g: 500. Algeria.
aethiopiae Ingram and Macfie, 1924b: 582. Ghana.
japonica (Tokunaga), 1937a: 267 (*Lasiohelea*). Japan.
aspinosa Saunders, 1957: 692. Canada (Saskatchewan).
gokwe de Meillon and Wirth, 1989b: 209. Zimbabwe.
gossympina Chan and LeRoux, 1970: 286. Singapore.
hamata Tokunaga, *in* Tokunaga and Murachi, 1959: 207. Belau (USA).
inconspicuosa (Ingram and Macfie), 1924a: 391 (*Lasiohelea*). Ghana.
ishigakii Tokunaga, 1962a: 182. Japan.
jamaicensis Wirth, 1970: 436. Jamaica.
jipajapae Wirth, 1970: 437. Panama.
johannseni Thomsen, 1935: 286. USA (New York).
kii (Tokunaga), 1940d: 107 (*Lasiohelea*). Japan.
kitasirakawae Tokunaga, 1940c: 94. Japan, Taiwan.
litoraurea (Ingram and Macfie), 1924a: 389 (*Lasiohelea*). Ghana.
minutissima Remm, 1961a: 192. Estonia.
masaakii Debenham, 1989: 235. New name for *esakii*.
esakii (Tokunaga), 1940e: 169 (1940d: 101) (*Lasiohelea*, preoccupied by *Forcipomyia esakii* (Tokunaga), 1940a). Belau (USA).
minima (Tokunaga), 1940d: 104 (*Lasiohelea*). Japan.
minuta (Tokunaga), 1940d: 106 (*Lasiohelea*). Japan.
monilicornis (Coquillett), 1905: 63 (*Ceratopogon*). Canada (British Columbia).
hirta (Lundström), 1910: 34 (*Ceratopogon*). Finland.
palustris (Saunders), 1925: 269 (*Thyridomyia*, preoccupied by *Forcipomyia palustris* (Meigen), 1804). Great Britain.
curticornis Goetghebuer, 1933c: 354. Belgium.
curticornis Goetghebuer, 1949: 1 (preoccupied by *Forcipomyia curticornis* Goetghebuer, 1933c). Belgium.
kabashae de Meillon, 1959a: 333. Zaire.
nana (Macfie), 1939c: 171 (*Lasiohelea*). Brazil.
neomonticola Borkent, in this work. New name for *monticola*.
monticola (Tokunaga), 1937a: 270 (*Lasiohelea*, preoccupied by *Forcipomyia monticola* Kieffer, 1913d). Japan.
nodosa Saunders, 1959: 43. Costa Rica.
nudocula (Tokunaga), 1937a: 269 (*Lasiohelea*). Japan.
rugosa Chan and LeRoux, 1970: 280. Canada (Quebec).
murinoides Remm, 1971: 188. Estonia.
sinuosa Dow and Wirth, 1972: 189. Mexico.
skiaphila (Clastrier), 1960c: 522 (*Lasiohelea*). Zaire.
tenuichela Dow and Wirth, 1972: 191. USA (California).
tugelensis de Meillon, 1959a: 333. South Africa.
univesicula Macfie, 1939c: 170. Brazil.

ursuli Remm, 1972: 66. Russia.
vertexicava Chan and LeRoux, 1970: 282. Singapore.
watshami de Meillon and Wirth, 1989b: 210. Zimbabwe.

Subgenus TRICHOHELEA Goetghebuer

APELMA Kieffer, 1919a: 64 (preoccupied by Billberg, 1820). Type species: *Apelma auronitens* Kieffer (= *Trichohelea tonnoiri* Goetghebuer), designation by Macfie, 1940f: 16.
TRICHOHELEA Goetghebuer, 1920: 39. Type species: *Trichohelea tonnoiri* Goetghebuer, by original designation.
NEOFORCIPOMYIA Tokunaga, *in* Tokunaga and Murachi, 1959: 200 (as subgenus of *Forcipomyia*). Type species: *Ceratopogon pectinunguis* de Meijere, by original designation.

aeronautica Macfie, 1935b: 265. Guyana.
aliena Debenham, 1987a: 83. Australia (New South Wales).
araneivora Clastrier and Legrand, 1991: 155. Guinea.
austrina Macfie, 1932c: 29. New Zealand.
basiflava Tokunaga, *in* Tokunaga and Murachi, 1959: 202. Micronesia.
baueri Wirth, 1956a: 361. USA (Arizona).
bifidicola Szadziewski, 1993: 649. Germany. Miocene.
caliginosa (Ingram and Macfie), 1924a: 386 (*Lasiohelea*). Ghana.
chaetoptera Remm, 1962b: 188. Estonia.
chirurga Debenham, 1987a: 87. Australia (New South Wales).
cliens Debenham, 1987a: 76. Papua New Guinea.
collinsi Lane, 1977: 308. Ethiopia.
consortis de Meillon and Wirth, 1989b: 212. South Africa.
crinita Saunders, 1964: 474. Canada (Saskatchewan).
danaisi (Floch and Abonnenc), 1949: 2 (1950a: 72) (*Lasiohelea*). Venezuela.
debenhamae Clastrier and Delécolle, 1991: 228. New name for *arcis*.
arcis Debenham, 1987a: 91 (preoccupied by *Forcipomyia arcis* de Meillon and Downes, 1986). Australia (Northern Territory).
eotrichoheleana Szadziewski, 1988: 213. Baltic region. Eocene–Lower Oligocene.
eques (Johannsen), 1908: 266 (*Ceratopogon*). USA (New York).
chrysopae Mayer, 1934b: 259. Germany.
chrysopivora (Tokunaga), 1939b: 371 (*Lasiohelea*). Japan.
equitans (Edwards), 1933c: 251 (*Lasiohelea*). Malaysia.
ferrea Debenham, 1987a: 76. Australia (Queensland).
geometrica (Clastrier), 1959c: 437 (*Lasiohelea*). Réunion (France).
goniognatha Wirth and Messersmith, 1971: 20. Mexico.
imparidentes Debenham, 1987a: 77. Fiji.
insignicornis (Macfie), 1947a: 29 (*Lasiohelea*). Uganda.
insignis (Skuse), 1889: 298 (*Ceratopogon*). Australia (New South Wales).
sydneyensis (Skuse), 1889: 302 (*Ceratopogon*). Australia (New South Wales).
intrepida Macfie, 1936b: 228. Peru.
kuscheli Sublette and Wirth, 1980: 330. New Zealand.
leptognatha Wirth and Messersmith, 1971: 21. USA (Kansas).
limnetis Ingram and Macfie, 1931a: 169. Argentina.
lunata Debenham, 1987a: 90. Australia (New South Wales).
macheti Clastrier and Legrand, 1990: 168. French Guiana.
mcateei Wirth, 1956a: 359. USA (Maryland).
saundersi Chan, *in* Chan and LeRoux, 1965: 87. Canada (Quebec).
mexicana Wirth, 1956a: 361. Mexico.
monoplectron Lane, 1977: 306. Tanzania.
okadai (Tokunaga), 1939b: 370 (*Lasiohelea*). Russia.
opilionivora (Lane), 1947c: 159 (*Lasiohelea*). Brazil.
pacifica (Macfie), 1933a: 75 (*Lasiohelea*). French Polynesia (France).
papuensis Lane and Cotman, 1986: 617. Papua New Guinea.
pectinunguis (de Meijere), 1923: 138 (*Ceratopogon*). Indonesia.
pennambula (Macfie), 1932a: 279 (*Lasiohelea*). Indonesia.
quateriungula Tokunaga, 1959: 293. Indonesia.

samoensis (Edwards), 1928: 51 (*Lasiohelea*). Western Samoa.
scorpio Debenham, 1987a: 88. Australia (New South Wales).
sector Debenham, 1987: 83. Australia (New South Wales).
shannoni (Ingram and Macfie), 1931a: 171 (*Lasiohelea*). Argentina.
subauronitens Tokunaga, 1940c: 96. Japan.
succinicola Szadziewski, 1993: 650. Germany. Miocene.
tipulivora Macfie, 1936b: 229. Indonesia.
tonnoiri (Goetghebuer), 1920: 39 (*Trichohelea*). Belgium.
auronitens (Kieffer), 1919a: 65 (*Apelma*, preoccupied by *Forcipomyia auronitens* (Kieffer), 1910). Slovak Republic.
papilionivora Edwards, 1923: 23. Great Britain.
umbellicola Remm, 1971: 189. Russia.
trinidadensis Saunders, 1964: 476. Trinidad and Tobago.
tsutsumii Tokunaga, 1960b: 76. Japan.
tumula Debenham, 1987a: 92. Australia (New South Wales).
veroensis Wirth and Messersmith, 1971: 24. USA (Florida).

Subgenus TYPHONOMYIA Debenham

TYPHONOMYIA Debenham, 1987a: 93 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia anachoreta* Debenham, by original designation.

anachoreta Debenham, 1987a: 94. Australia (New South Wales).

Subgenus WARMKEA Saunders

WARMKEA Saunders, 1957: 671 (as subgenus of *Forcipomyia*). Type species: *Forcipomyia bicolor* Saunders (= *Forcipomyia lesliei* Wirth), by original designation.

aeria Saunders, 1957: 675. Puerto Rico (USA).
albiacies Debenham, 1987b: 170. Australia (Queensland).
brunnea de Meillon and Downes, 1986: 151. South Africa.
distinctiscuta Tokunaga, 1962a: 173. Japan.
fishi Wirth and Soria, 1980: 145. USA (Florida).
galindoi Wirth and Soria, 1980: 146. Panama.
kaufmannae Wirth and Derron, 1976: 230. São Tomé and Principe.
lesliei Wirth, 1974: 12. New name for *bicolor*.
bicolor Saunders, 1957: 672 (preoccupied by *Forcipomyia bicolor* Lutz, 1914). Puerto Rico (USA).
louriei (Macfie), 1935a: 49 (*Lasiohelea*). Brazil.
narthekophora Macfie, 1939c: 166. Brazil.
malayae Saunders, 1957: 678. Malaysia.
spinosa Saunders, 1957: 676. Puerto Rico (USA).
terrestris Saunders, 1964: 479. Trinidad and Tobago.
tuberculata Saunders, 1957: 677. Trinidad and Tobago.

Unplaced species of FORCIPOMYIA

longitarsis (Malloch), 1915b: 314 (*Euforcipomyia*). USA (Illinois).

reburra Borkent, in this work. New name for *villosa*.
villosa (Macfie), 1934c: 183 (*Lasiohelea*, preoccupied by *Forcipomyia villosa* (Zetterstedt), 1850). Malaysia.

Genus PROTOCULICOIDES Boesel

PROTOCULICOIDES Boesel, 1937: 50. Type species: *Protoculicoides depressus* Boesel, by original designation.

depressus Boesel, 1937: 51. Canada (Manitoba). Upper Cretaceous.
succineus Szadziewski, 1996: 31. Lebanon. Lower Cretaceous.

SUBFAMILY DASYHELEINAE LENZ, 1934: 96

Genus DASYHELEA Kieffer

DASYHELEA Kieffer, 1911d: 5. Type species: *Dasyhelea halophila* Kieffer, by monotypy.
PROKEMPIA Kieffer, 1913d: 163, 179 (as

subgenus of *Dasyhelea*). Type species: *Dasyhelea ornaticornis* Kieffer, designation by Wirth, 1973: 358.

PSEUDOCULICOIDES Malloch, 1915a: 309. Type species: *Ceratopogon mutabilis* Coquillett, by original designation.

TETRAHELEA Kieffer, 1925a: 423. Type species: *Culicoides insignicornis* Kieffer, by original designation.

DICRYPTOSCENA Enderlein, 1936: 51. Type species: *Dasyhelea inclusa* Kieffer, by original designation.

SEBESSIA Remm, 1979b: 55 (as subgenus of *Dasyhelea*). Type species: *Dasyhelea flavopyga* Zilahi-Sebess, by original designation.

abdominalis (Santos Abreu), 1918: 303 (*Culicoides*). Canary Islands (Spain).

abhazica Remm, 1967: 21. Georgia.

abonnenci Clastrier, 1959b: 373. Senegal.

abreui (Kieffer), 1921e: 7 (*Culicoides*). New name for *flaviventris*.

flaviventris (Santos Abreu), 1918: 292 (*Culicoides*, as variety of *versicolor*, preoccupied by *Dasyhelea flaviventris* (Goetghebuer), 1910). Canary Islands (Spain).

acuminata Kieffer, 1919a: 60. Hungary.

polita Edwards, 1921: 124. Great Britain.

verticillata Kieffer, 1925d: 63. France, Hungary.

littoralis Goetghebuer, 1934c: 289. Belgium.

adami Vattier, 1964: 1160. Congo.

adjaniae Gosseries, 1989: 3. New name for *acuminata*.

acuminata Goetghebuer, 1935d: 165 (preoccupied by *Dasyhelea acuminata* Kieffer, 1919a). Zaire.

goetghebueri Wirth, 1980: 159, *in* Wirth et al., 1980 (preoccupied by *Dasyhelea goetghebueri* Kieffer, 1919a). New name for *acuminata*.

aegealitis Spinelli and Wirth, 1984d: 589. Jamaica.

aeratipennis (Skuse), 1889: 303 (*Ceratopogon*). Australia (New South Wales).

affinis (Johannsen), 1932: 422 (*Tetraphora*, as variety of *tersa*). Indonesia.

afghanica Navai, 1994: 359. Afghanistan.

africana Clastrier, 1959b: 379. Senegal.

aithalodes Remm, 1971: 200. Russia.

albidipes (Santos Abreu), 1918: 291 (*Culicoides*, as variety of *versicolor*). Canary Islands (Spain).

intermedia (Santos Abreu), 1918: 310 (*Culicoides*). Canary Islands (Spain).

guanchense Clastrier, 1966: 702. Canary Islands (Spain).

albiscapula Clastrier, 1959b: 377. Senegal.

albohalterata (Santos Abreu), 1918: 299 (*Culicoides*, as variety of *sericatus*). Canary Islands (Spain).

albopicta Ingram and Macfie, 1931a: 187. Argentina.

albopruinosa Goetghebuer, 1933e: 143. Zaire.

alboscutellata Clastrier, 1959c: 424. Réunion (France).

alboverrucosa Remm, 1967: 17. Azerbaijan.

algarum Kieffer, 1924a: 21. Germany.

ampla Borkent, in this work. New name for *major*.

major (Malloch), 1915a: 311 (*Pseudoculicoides*, preoccupied by *Dasyhelea major* (Strobl), 1906). USA (Illinois).

ampullariae Macfie, 1934c: 279. Malaysia.

ancora (Coquillett), 1902a: 87 (*Ceratopogon*). USA (Florida).

andensis Ingram and Macfie, 1931a: 180. Argentina.

antiqua Palmer, 1957: 266 (as subspecies of *australis*). USA (California). Miocene.

aperta Goetghebuer and David, 1937: 415. France.

arciforceps Tokunaga, 1940d: 129. Japan.

clavifulva Tokunaga, 1940d: 135. Japan.

arenivaga Macfie, 1943a: 151 (as variety of *inconspicuosa*). Egypt.

arenosa Kieffer, 1925e: 255. Egypt.

argentinensis Kieffer, 1925c: 92. Argentina.

aristolochiae (Rondani), 1860: 134 (*Ceratopogon*). Italy.

assimilis (Johannsen), 1932: 425 (*Tetraphora*). Indonesia.

atlantis Wirth and Williams, 1957: 11. Bermuda (Great Britain).

atra de Meillon and Wirth, 1989b: 213. Zimbabwe.

atrata Wirth, 1952a: 164. USA (California).

atrifemorata Clastrier, 1961: 264. Senegal.

atrolaevis Goetghebuer, 1933e: 144. Zaire.

atronotata Macfie, 1938: 158. Solomon Islands.

atrostriata Goetghebuer, 1933e: 145. Zaire.

aucklandensis Sublette and Wirth, 1980: 331. New Zealand.
auli Remm, 1962a: 123. Estonia.
aurantiaca (Kieffer), 1911c: 342 (*Culicoides*). Seychelles.
mahensis (Kieffer), 1911c: 342 (*Culicoides*, as variety of *aurantiaca*). Seychelles.
aurensis Remm, 1981: 32. New name for *biskraensis*.
biskraensis Goetghebuer, 1939: 59 (preoccupied by *Dasyhelea biskraensis* Kieffer, 1923a). Algeria.
australis Wirth, 1952b: 92. Chile.
bactriana Remm, 1980: 104. Uzbekistan.
baculata Remm, 1967: 15. Georgia.
bahamensis (Johnson), 1908: 71 (*Ceratopogon*). Bahamas.
bajensis Wirth, 1978: 192. Mexico.
baltica Remm, 1966: 58. Estonia.
bamianica Navai, 1994: 363. Afghanistan.
begueti Kieffer, 1922g: 508. Algeria.
astyla Kieffer, 1922g: 510. Algeria.
hirtipes Kieffer, 1922g: 510 (as variety of *begueti*, preoccupied by *Dasyhelea hirtipes* (Kieffer), 1917b). Algeria.
bensoni Edwards, 1933a: 91. Great Britain.
vernalis Remm, 1979b: 56. Estonia.
bermudae Wirth and Williams, 1957: 11. Bermuda (Great Britain).
biannulata Clastrier, Rioux and Descous, 1961: 68. Chad.
bicolorea Goetghebuer, 1934d: 191. Zaire.
bicornis Remm, 1993: 195. Russia.
bicrenata Kieffer, 1923a: 668. Algeria.
bifida Zilahi-Sebess, 1936b: 44 (as variety of *fasciigera*). Hungary.
furva Remm, 1967: 21. Russia.
bifurcata Kieffer, 1923a: 669. Algeria.
bilobata Kieffer, 1915b: 65. France.
bipunctata Wirth and Messersmith, 1977: 304. Seychelles.
biseriata Wirth and Beaver, 1979: 49. Malaysia.
biskraensis Kieffer, 1923a: 672 (as variety of *begueti*). Algeria.
bistriata Kieffer, 1915a: 472. Germany.
biunguis Kieffer, 1925a: 409. Russia.
bolei Ingram and Macfie, 1923: 54. Ghana.
boothi Ingram and Macfie, 1921: 331. Nigeria.
borbonica Clastrier, 1959c: 419. Réunion (France).
borgmeieri Wirth and Waugh, 1976: 225. Trinidad and Tobago.
brevicornis Waugh and Wirth, 1976: 245. USA (New York).
brevicosta Waugh and Wirth, 1976: 238. USA (Virginia).
breviforceps Tokunaga, 1962a: 198. Japan.
brevimana (Kieffer), 1910: 187 (*Culicoides*). India.
brookmani Wirth, 1952a: 152. USA (California).
browneae Pierce, 1966: 87. USA (California). Miocene.
bullocki Tokunaga, 1958: 75. South Korea.
cacaoi Wirth and Waugh, 1976: 231. Trinidad and Tobago.
cactorum Wirth and Hubert, 1960a: 642. Mexico.
caesia Remm, 1993: 193. Russia.
calvescens Macfie, 1938: 157. USA (Hawaii).
calycata Remm, 1972: 74. Russia.
canariensis (Santos Abreu), 1918: 293 (*Culicoides*, as variety of *versicolor*). Canary Islands (Spain).
brunnea (Santos Abreu), 1918: 295 (*Culicoides*, as variety of *versicolor*). Canary Islands (Spain).
fenestralis (Santos Abreu), 1918: 293 (*Culicoides*, as variety of *versicolor*). Canary Islands (Spain).
ornatigaster (Santos Abreu), 1918: 294 (*Culicoides*, as variety of *versicolor*). Canary Islands (Spain).
hiemalis (Santos Abreu), 1918: 314 (*Culicoides*). Canary Islands (Spain).
albidigaster (Santos Abreu), 1918: 316 (*Culicoides*, as variety of *hiemalis*). Canary Islands (Spain).
inmaculata (Santos Abreu), 1918: 315 (*Culicoides*, as variety of *hiemalis*). Canary Islands (Spain).
quinquetaeniata Clastrier, 1966: 699. Canary Islands (Spain).
caribbeana Spinelli and Wirth, 1984d: 596. Jamaica.
carolinensis Tokunaga, 1941a: 112. Micronesia.
cellulana de Meillon and Wirth, 1983a: 353. South Africa.
centridorsalis Tokunaga, 1963c: 39. Japan.
chambiensis Goetghebuer, 1935d: 166. Zaire.

chani Wirth and Linley, 1990: 274. USA (Florida).
chilensis Ingram and Macfie, 1931a: 186. Chile.
cincta (Coquillett), 1901a: 605 (*Ceratopogon*). USA (Florida).
penthesileae Macfie, 1935a: 55. Brazil.
claviculifera Tokunaga, 1962a: 202. Japan.
coarctata Kieffer, 1914a: 231. Switzerland.
cogani Wirth, 1990: 238. Aldabra (Seychelles).
columbiana (Kieffer), 1917b: 304 (*Culicoides*). Colombia.
columna de Meillon and Wirth, 1989b: 213. Zimbabwe.
communis Kieffer, 1918a: 55. Algeria.
confinis (Johannsen), 1932: 426 (*Tetraphora*). Indonesia.
contigua (Johannsen), 1932: 423 (*Tetraphora*). Indonesia.
corinneae Gosseries, 1991: 42. New name for *scutellata*.
scutellata (Meigen), 1830: 262 (*Ceratopogon*, preoccupied by *Ceratopogon scutellatus* Say, 1829). Europe.
cornuta Remm, 1972: 77. Russia.
crassipilosa Tokunaga, 1956: 114. Japan.
crassiseta Borkent and Forster, 1986: 1285. Canada (Ontario).
croceoscutellata Goetghebuer, 1933e: 143. Zaire.
cuneata Remm, 1979b: 57. Russia.
curticoma Kieffer, 1923b: 138. Indonesia.
curtiradialis Tokunaga, 1940d: 130. Japan, Taiwan.
curtivitta Tokunaga, 1940d: 124. Japan.
dampfi Kieffer, 1925b: 150. Estonia.
turfacea Kieffer, 1925b: 151. Estonia.
dara Pierce, 1966: 88. USA (California). Miocene.
dasyptera Goetghebuer, 1934b: 214. Israel.
davidi Clastrier, 1983c: 27. Seychelles.
decempunctata (Skuse), 1889: 301 (*Ceratopogon*). Australia (New South Wales).
decoratissima (Strobl), 1910: 264 (*Ceratopogon*). Austria.
dehalperti Macfie, 1937b: 76. Ethiopia.
dentiforceps Tokunaga, 1940d: 121. Japan.
dieuzeidei (Vaillant), 1957: 3 (*Culicoides*). France.
digna Borkent, 1997a: 92. USA (Hawaii).
dimota Remm, 1972: 79. Russia.
diplosis Kieffer, 1914a: 232. Germany.
distalis Kieffer, 1918a: 94. Turkey.
divergens de Meillon, 1959b: 22. South Africa.
dufouri (Laboulbène), 1869: 163 (*Ceratopogon*). France.
sensualis Kieffer, 1919a: 55. Croatia, Greece.
bilineata Goetghebuer, 1920: 45. Belgium.
geleiana Zilahi-Sebess, 1931: 321. Hungary.
montana Zilahi-Sebess, 1940: 48 (as variety of *dufouri*). Hungary.
dupliforceps Tokunaga, *in* Tokunaga and Murachi, 1959: 264. Kiribati.
dybasi Tokunaga and Murachi, 1959: 291. Belau (USA).
egypti Macfie, 1943a: 149 (as variety of *inconspicuosa*). Egypt.
eodicryptoscenica Szadziewski, 1988: 228. Poland. Eocene–Lower Oligocene.
eremita Remm and Nazarmukhamedov, 1969: 56. Tajikistan.
erici Havelka, 1978b: 62. Austria.
ermeri Remm, 1967: 17. Georgia.
erythrogaster (Santos Abreu), 1918: 307 (*Culicoides*). Canary Islands (Spain).
esakii Tokunaga, 1940a: 212. Micronesia.
estonica Kieffer, 1925a: 409. Estonia.
europaea Remm, 1962a: 122 (as subspecies of *bifurcata*). Estonia.
excellentis Borkent, 1997a: 91. USA (Hawaii).
eximia (Santos Abreu), 1918: 312 (*Culicoides*). Canary Islands (Spain).
falcata de Meillon and Downes, 1986: 152. South Africa.
falculata Remm, *in* Remm and Zhogolev, 1968: 833. Ukraine.
fasciigera Kieffer, 1925b: 151. Estonia.
furcata Zilahi-Sebess, 1940: 50. Hungary.
nigra Zilahi-Sebess, 1940: 50 (as variety of *furcata*). Hungary.
fenerivensis de Meillon, 1961: 48. Madagascar.
ferruginosa Remm and Nazarmukhamedov, 1969: 54. Turkmenistan.
festiva Wirth, 1952a: 161. USA (California).
filibranchia (Lutz), 1914: 85 (*Ceratopogon*). Brazil.
flava Carter, Ingram and Macfie, 1921b: 196. Ghana.
flaveola Clastrier, Rioux and Descous, 1961: 73. Chad.

flavescens Tokunaga and Murachi, 1959: 250. Marshall Islands.
flavibasalis Tokunaga, 1940e: 173 (1940d: 118). Micronesia.
flavicauda Macfie, 1939c: 201. Brazil.
flavicaudalis Tokunaga and Murachi, 1959: 248. Micronesia.
flaviformis Carter, Ingram and Macfie, 1921b: 201. Ghana.
flavifrons (Guérin), 1833: 165 (*Ceratopogon*). France.
flavimana (Santos Abreu), 1918: 292 (*Culicoides*, as variety of *versicolor*). Canary Islands (Spain).
flavipicta Ingram and Macfie, 1922: 249. Ghana.
flaviscapula Kieffer, 1918a: 93. Turkey.
flaviventris (Goetghebuer), 1910: 96 (*Culicoides*). Belgium.
flavohumeralis Goetghebuer, 1935d: 166. Zaire.
flavopyga Zilahi-Sebess, 1940: 49. Hungary.
flavoscapularis Goetghebuer, 1935d: 167. Zaire.
flavoscutellata (Zetterstedt), 1850: 3648 (*Ceratopogon*). Norway.
egens (Winnertz), 1852: 43 (*Ceratopogon*). Germany.
alonensis (Strobl), 1906: 396 (*Ceratopogon*). Spain.
heracleae Kieffer, 1919a: 59. Greece.
halobia (Kieffer), 1924a: 12 (*Prokempia* (preoccupied by *Dasyhelea halobia* Kieffer, 1924a). Germany.
floricola Kieffer, 1922g: 510 (as variety of *begueti*). Algeria.
fontana de Meillon and Wirth, 1981b: 533. South Africa.
forficata de Meillon and Wirth, 1989b: 215. Senegal.
formosae (Kieffer), 1912a: 29 (*Culicoides*). Taiwan.
formosana Kieffer, 1921g: 565. Taiwan.
sauteri Tokunaga, 1940d: 127. New name for *formosana*.
forsteri Grogan and Wirth, 1981c: 97. Solomon Islands.
fosteri Clastrier, 1983c: 28. Seychelles.
franzella Goetghebuer, 1950: 3. Austria.
unbedarfti Havelka, 1978a: 177. Germany.
fratercula (Santos Abreu), 1918: 305 (*Culicoides*). Canary Islands (Spain).
fulvicauda Macfie, 1933b: 101. French Polynesia (France).
fulvosa Remm, 1967: 15. Azerbaijan.
fumala Tokunaga, 1940e: 176 (1940d: 117). Belau (USA).
fungivora Krivosheina and Remm, 1974: 123. Russia.
furcillifera Tokunaga, *in* Tokunaga and Murachi, 1959: 275. Micronesia.
furcula de Meillon and Wirth, 1989b: 216. South Africa.
fusca Carter, Ingram and Macfie, 1921b: 204. Ghana.
fusciformis Carter, Ingram and Macfie, 1921b: 209. Ghana.
fukscipleuris Carter, Ingram and Macfie, 1921b: 200. Ghana.
fusciscutellata Carter, Ingram and Macfie, 1921b: 187. Ghana.
fuscocincta Remm, 1967: 12. Azerbaijan.
galbiscutellata Borkent, 1997b: 7. New name for *luteoscutellata*.
luteoscutellata Carter, Ingram and Macfie, 1921b: 191 (preoccupied by *Dasyhelea luteoscutellata* (Santos Abreu), 1918). Ghana.
gedanica Szadziewski, 1988: 226. Poland. Eocene–Lower Oligocene.
georgei Huttel and Huttel, 1954: 39. France.
gigantosalpinx de Meillon, 1937b: 371. South Africa.
gluchovae Brodskaya, 1996: 193. Kyrgyzstan.
grata (Johannsen), 1932: 426 (*Tetraphora*). Indonesia.
gressitti Tokunaga, *in* Tokunaga and Murachi, 1959: 251. Belau (USA).
grisea (Coquillett), 1901a: 602 (*Ceratopogon*). USA (District of Columbia).
subcaerulea Thomsen, 1935: 284. USA (New York).
griseithorax Goetghebuer, 1933e: 145. Zaire.
griseola Wirth, 1978: 195. Mexico.
guadeloupensis Delécolle and Rieb, 1994: 272. Guadeloupe.
halobia Kieffer, 1924a: 20. Germany.
halophila Kieffer, 1911d: 5 (1913c: 255). Serbia-Montenegro.
hamardabani Remm, 1972: 75. Russia.
hamata de Meillon and Wirth, 1989b: 217. Zimbabwe.

hawaiiensis Macfie, 1934a: 133. USA (Hawaii).
heliophila Macfie, 1943a: 150 (as variety of *inconspicuosa*). Egypt.
heurui Kieffer, 1923b: 139. Indonesia.
hippolytae Macfie, 1935a: 54. Brazil.
hirtipes (Kieffer), 1917b: 305 (*Culicoides*). Peru.
hitchcocki Wirth, 1976a: 381. Tonga.
holosericea (Meigen), 1804: 27 (*Ceratopogon*). Europe.
homocera Kieffer, 1919a: 56. Croatia.
hondurensis Spinelli and Wirth, 1984d: 600. Belize.
humilis Macfie, 1938: 159. Solomon Islands.
hutsoni Wirth, 1990: 240. Aldabra (Seychelles).
imperfecta de Meillon and Wirth, 1989b: 217. Zimbabwe.
incisurata Remm, 1962a: 114. Estonia.
inclusa Kieffer, 1918b: 188. Czech Republic.
inconspicuosa Carter, Ingram and Macfie, 1921b: 191. Ghana.
indecora (Kieffer), 1912a: 29 (*Culicoides*). Taiwan.
insignicornis (Kieffer), 1913e: 9 (*Culicoides*). Kenya.
insignipalpis Kieffer, 1925d: 62 (as variety of *versicolor*). Europe.
insons Mayer, 1934c: 177. Indonesia.
insularis Tokunaga, 1940a: 214. Micronesia.
insulicola Tokunaga and Murachi, 1959: 307. Marshall Islands.
intonsa Debenham, 1987e: 347. Cocos (Keeling) Islands (Australia).
ismailiae Macfie, 1943a: 152. Egypt.
jamaicensis Spinelli and Wirth, 1984d: 602. Jamaica.
johannseni (Malloch), 1915a: 311 (*Pseudoculicoides*). USA (California).
joycei de Meillon, 1936: 193. South Africa.
jucunda Macfie, 1932c: 38. New Zealand.
judithae Pierce, 1966: 88. USA (California). Miocene.
kanakoffi Pierce, 1966: 89. USA (California). Miocene.
kibunensis Tokunaga, 1940d: 134. Japan.
kitaokai Tokunaga, 1963c: 42. Japan.
kodoriensis Remm, 1993: 195. Russia.
koenigi Delécolle and Rieb, 1994: 267. Guadeloupe.
korfoensis Remm, 1993: 193. Russia.
kurensis Remm, 1967: 14. Azerbaijan.
kyotoensis Tokunaga, 1940d: 132. Japan.
kyrenica Remm, 1972: 75. Russia.
labourdonnaisi Clastrier, 1959c: 422. Réunion (France).
lacustris Ingram and Macfie, 1931a: 190. Argentina.
laeta (Johannsen), 1932: 427 (*Tetraphora*). Indonesia.
larundae de Meillon, 1936: 195. South Africa.
latiforceps Clastrier, 1983c: 29. Seychelles.
ledi Remm, 1993: 190. Russia.
lediformis Remm, 1993: 191. Russia.
leporis de Meillon and Wirth, 1981c: 572. South Africa.
leptobranchia Waugh and Wirth, 1976: 236. USA (Maryland).
leptoclada Remm, 1967: 19. Azerbaijan.
lignicola Kieffer, 1919a: 57. Czech Republic.
lineata (Kieffer), 1917a: 186 (*Culicoides*). Papua New Guinea.
longicoma Kieffer, 1923b: 139. Indonesia.
longicornis Kieffer, 1913d: 180. India.
longituba Kieffer, 1922g: 511. Algeria.
lucida Remm, *in* Remm and Zhogolev, 1968: 831. Georgia.
lugensis Brodskaya, 1995: 9. Russia.
lutea Remm, *in* Remm and Zhogolev, 1968: 834. Ukraine.
luteicauda Tokunaga, 1962a: 192. Japan.
luteipalpis (Santos Abreu), 1918: 292 (*Culicoides*, as variety of *versicolor*). Canary Islands (Spain).
luteiventris Goetghebuer, 1934a: 90. Austria.
spiralis Remm, 1966: 60. Lithuania.
luteocincta Kieffer, 1925e: 254. Egypt.
luteogrisea Wirth and Williams, 1957: 10. Bermuda (Great Britain).
luteola Goetghebuer, 1934d: 191. Zaire.
luteoscutellata (Santos Abreu), 1918: 300 (*Culicoides*, as variety of *sericatus*). Canary Islands (Spain).
macrostoma (Kieffer), 1910: 188 (*Culicoides*). India.
maculata Macfie, 1943b: 119. Bahamas.
major (Strobl), 1906: 397 (*Ceratopogon*, as variety of *sericata*). Spain.
malleola Remm, 1962a: 119. Estonia.
manassi Remm, 1980: 106. Kyrgyzstan.
maricola Remm, 1993: 195. Russia.
maritima Tokunaga, 1940d: 126. Japan.

matubae de Meillon, 1937b: 375. South Africa.
mayeri Spataru and Damian-Georgescu, 1970: 422. Romania.
mcmillani Clastrier and Wirth, 1961b: 333. Gambia.
mediomunda Minaya, 1978: 79. Peru.
messersmithi Waugh and Wirth, 1976: 241. USA (Virginia).
microcera Kieffer, 1919a: 54. Slovak Republic.
minima Kieffer, 1913d: 181. India.
minuscula (Skuse), 1889: 299 (*Ceratopogon*). Australia (New South Wales).
minutissima Goetghebuer, 1933e: 142. Zaire.
miocaenica Szadziewski, 1993: 651. Germany. Miocene.
mocambicana de Meillon, 1942c: 9. Mozambique.
modesta (Winnertz), 1852: 43 (*Ceratopogon*). Germany.
aestiva (Winnertz), 1852: 42 (*Ceratopogon*). Germany.
longipalpis Kieffer, 1913b: 37. Germany.
strobli Kieffer, 1919a: 63. Spain.
pratensis Goetghebuer, 1920: 44. Belgium.
bihamata Kieffer, 1923a: 667. Algeria.
moascari Macfie, 1943a: 153. Egypt.
densipilosa Tokunaga, 1963c: 41. Japan.
monilicornis Kieffer, 1923a: 671. Algeria.
monosticta (Ingram and Macfie), 1923: 60 (*Thysanognathus*). Tanzania.
monticola Ingram and Macfie, 1931a: 188. Chile.
montivaga (Kieffer), 1910: 188 (*Culicoides*). India.
multifascia Tokunaga and Murachi, 1959: 320. Micronesia.
muradovi Remm, 1980: 108. Turkmenistan.
mutabilis (Coquillett), 1901a: 602 (*Ceratopogon*). USA (District of Columbia).
myrmedon Kieffer, 1917a: 188. Papua New Guinea.
navaiae Waugh and Wirth, 1976: 240. USA (Michigan).
neglecta (Winnertz), 1852: 46 (*Ceratopogon*). Germany.
neobifurcata Wirth, 1976c: 15. New name for *bifurcata*.
bifurcata Wirth, 1952a: 161 (preoccupied by *Dasyhelea bifurcata* Kieffer, 1923a). USA (California).
neocaledoniensis Clastrier, 1988b: 79. New Caledonia (France).
nepenthicola Wirth and Beaver, 1979: 47. Malaysia.
nigella (Skuse), 1889: 300 (*Ceratopogon*). Australia (New South Wales).
nigeriae Ingram and Macfie, 1921: 329. Nigeria.
nigricans Carter, Ingram and Macfie, 1921b: 194. Ghana.
nigrifusca Carter, Ingram and Macfie, 1921b: 207. Ghana.
nigrina Clastrier, Rioux and Descous, 1961: 71. Chad.
nigripygma Tokunaga, *in* Tokunaga and Murachi, 1959: 310. Micronesia.
nigristigmata Tokunaga and Murachi, 1959: 246. Marshall Islands.
nigritula Clastrier, Rioux and Descous, 1961: 66. Chad.
nigrofusca Carter, Ingram and Macfie, 1921b: 207. Ghana.
nigroris Tokunaga and Murachi, 1959: 301. Micronesia.
nitidula (Kieffer), 1910: 189 (*Culicoides*). Myanmar, India.
noctuabunda Remm, 1980: 109. Tajikistan.
notata Goetghebuer, 1920: 47. Belgium.
semistriata Goetghebuer, 1921: 176. Belgium.
sziladyi Zilahi-Sebess, 1936b: 42. Hungary.
nudipennis Kieffer, 1921b: 11. Cameroon.
nyasae Ingram and Macfie, 1925: 286. Malawi.
obscurella Goetghebuer, 1935d: 167. Zaire.
okinawensis Tokunaga, 1962a: 193. Japan.
omoxantha Ingram and Macfie, 1922: 251. Nigeria.
opaca (Kieffer), 1910: 188 (*Culicoides*). India.
oppressa Thomsen, 1935: 285. USA (New York).
oreocincta Remm, 1980: 103. Kyrgyzstan.
oribates Macfie, 1932c: 40. New Zealand.
ornaticornis Kieffer, 1913d: 180. India.
pacifica Macfie, 1933b: 99. French Polynesia (France).
pallida Macfie, 1933b: 100 (as variety of *pacifica*). French Polynesia (France).
paivai (Kieffer), 1910: 193 (*Culicoides*). India.
palauensis Tokunaga, 1940e: 177 (1940d: 117). Belau (USA).
pallens Wirth, 1952a: 152. USA (California).

pallidihalter Carter, Ingram and Macfie, 1921b: 184. Ghana.
pallidiventris (Goetghebuer), 1931: 211 (*Tetraphora*). Germany.
olivacea Remm, 1962a: 117. Estonia.
pallivittae Tokunaga, *in* Tokunaga and Murachi, 1959: 269. Micronesia.
palloris Tokunaga and Murachi, 1959: 298. Mariana Islands (USA).
paludicola Kieffer, 1925b: 152. Estonia.
paracincta Wirth, 1969: 576. Galápagos Islands (Ecuador).
paracumincata Remm, 1980: 104. Tajikistan.
paragrata Remm, 1972: 72. Russia.
parahybae Macfie, 1940a: 74. Brazil.
parallela Remm, 1962a: 125. Estonia.
parcepilosa Kieffer, 1923a: 670. Algeria.
parva Borkent, in this work. New name for *minuscula*.
minuscula Zilahi-Sebess, 1940: 51 (preoccupied by *Dasyhelea minuscula* (Skuse), 1889). New name for *minima*.
minima Zilahi-Sebess, 1936b: 41 (preoccupied by *Dasyhelea minima* Kieffer, 1913d). Hungary.
parvifulva Tokunaga, 1940d: 139. Taiwan.
parvinigra Tokunaga, 1940d: 133. Taiwan.
parvistylata Tokunaga and Murachi, 1959: 259. Micronesia.
patagonica Ingram and Macfie, 1931a: 182. Argentina.
paulistana Forattini and Rabello, 1957: 245. Brazil.
peculiopa Navai, 1994: 377. Afghanistan.
peliliouensis Tokunaga, 1940e: 177 (1940d: 117). Belau (USA).
pelletieri Clastrier, 1959c: 426. Réunion (France).
pentalineata Wirth and Hubert, 1960a: 644. Mexico.
perfida (Johannsen), 1932: 424 (*Tetraphora*). Indonesia.
perrara Remm, 1980: 108. Turkmenistan.
philotherma Macfie, 1953: 103. Costa Rica.
picata Macfie, 1932b: 494. Malawi.
pictiventris (Kieffer), 1911b: 327 (*Culicoides*). India.
platychaeta Hardy, 1960: 185. USA (Hawaii).
pollex Borkent and Forster, 1986: 1286. Bahamas.
pollinosa Wirth, 1952a: 156. USA (California).
pritchardi Wirth, 1952a: 163. USA (California).
pseudocincta Waugh and Wirth, 1976: 225. USA (New York).
pseudoincisurata Waugh and Wirth, 1976: 233. USA (Georgia).
pulchripes (Santos Abreu), 1918: 308 (*Culicoides*). Canary Islands (Spain).
tenerifensis Clastrier, 1966: 694. Canary Islands (Spain).
pumila Macfie, 1939c: 202. Brazil.
punctatipennis Kieffer, 1921b: 11. Cameroon.
punctiformis Goetghebuer, 1935d: 168. Zaire.
punctiventris Goetghebuer, 1940: 71. Germany.
sericatoides Zilahi-Sebess, 1940: 53. Hungary.
siccicola Remm, *in* Remm and Zhogolev, 1968: 832. Ukraine.
punctosa Remm, 1993: 190. Russia.
pusilla (Lutz), 1913: 65 (*Centrorhynchus*). Brazil.
pygmaea (Williston), 1896: 278 (*Ceratopogon*). St. Vincent.
pyrsonota Macfie, 1953: 104. Costa Rica.
quadrilobata (Kieffer), 1910: 189 (*Culicoides*). India.
quarternihamata Tokunaga and Murachi, 1959: 295. Micronesia.
radialis Edwards, 1928: 53. Western Samoa.
raripilosa Tokunaga, 1940e: 172 (1940d: 117). Belau (USA).
retorta Ingram and Macfie, 1921: 333. Sierra Leone.
reynoldsi Ingram and Macfie, 1931a: 185. Chile.
robustiforceps Tokunaga, 1962a: 187. Japan.
rostrosericea Remm, 1993: 191. Russia.
russa Macfie, 1933a: 79. French Polynesia (France).
ryckmani Wirth and Hubert, 1960a: 646. USA (California).
ryukyuensis Tokunaga, 1962a: 196. Japan.
sabroskyi Tokunaga, *in* Tokunaga and Murachi, 1959: 273. Belau (USA).
sagittifera Tokunaga and Murachi, 1959: 292. Mariana Islands (USA).
salinaria de Meillon and Wirth, 1981b: 530. South Africa.

salta de Meillon and Downes, 1986: 155. South Africa.
saltensis Spinelli and Wirth, 1984d: 606. Mexico.
sanctaemariae Wirth, 1952a: 162. USA (California).
santaemarthae (Kieffer), 1917b: 306 (*Culicoides*). Colombia.
saprophila Kieffer, 1925a: 410. Germany.
saxicola (Edwards), 1929a: 426 (*Tetraphora*). Great Britain.
lithotelmatica Strenzke, *in* Thienemann, 1950: 178. Austria.
scapularis (Kieffer), 1910: 189 (*Culicoides*). India.
schizothrixi Lee and Wirth, *in* Lee et al., 1989: 453. Singapore.
schumanni Navai, 1994: 379. Afghanistan.
scissurae Macfie, 1937a: 15. Trinidad and Tobago.
scotti (Kieffer), 1911c: 341 (*Culicoides*). Seychelles.
scutellaris Kieffer, 1918a: 93. Turkey.
semilinigrina Navai, 1994: 384. Afghanistan.
seminigra Navai, 1994: 381. Afghanistan.
septuosa Borkent, in this work. New name for *obscura*.
obscura (Winnertz), 1852: 45 (*Ceratopogon*, preoccupied by *Forcipomyia obscura* (Walker), 1848). Germany.
sericata (Winnertz), 1852: 34 (*Ceratopogon*). Germany.
serrata Navai, 1994: 383. Afghanistan.
serristernum Remm, 1967: 18. Georgia.
setigera (Kieffer), 1910: 190 (*Culicoides*). India.
setoensis Tokunaga, 1940d: 137. Japan.
sexlineata Goetghebuer, 1935d: 169. Zaire.
seychellensis (Kieffer), 1911c: 341 (*Culicoides*). Seychelles.
shannoni Ingram and Macfie, 1931a: 183. Chile.
signata Goetghebuer, 1935d: 169. Zaire.
similaris Remm, 1972: 77. Russia.
similis Carter, Ingram and Macfie, 1921b: 189. Ghana.
simillima (Johannsen), 1932: 423 (*Tetraphora*). Indonesia.
simpliradialis Tokunaga, 1940d: 127. Japan.
simulator Goetghebuer, 1935d: 170. Zaire.
sinclairi Borkent, 1991: 110. Galápagos Islands (Ecuador).
skierskae Szadziewski, 1985a: 91. Algeria.
sonorensis Wirth, 1978: 197. Mexico.
soriai Wirth and Waugh, 1976: 229. Brazil.
soutini de Meillon and Wirth, 1987a: 38. South Africa.
spathicerca Wirth, 1969: 577. Galápagos Islands (Ecuador).
speciosa Clastrier, 1983c: 34. Seychelles.
spiniforma Waugh and Wirth, 1976: 243. USA (New York).
stackelbergi Remm, 1993: 194. Russia.
stanislavi Szadziewski, 1988: 230. Poland. Eocene–Lower Oligocene.
stellata Remm, *in* Remm and Zhogolev, 1968: 831. Russia.
stemlerae Waugh and Wirth, 1976: 233. USA (Maryland).
stenoceras Palmer, 1957: 271. USA (California). Miocene.
sternalis Remm, 1980: 110. Tajikistan.
storai Borkent, 1997b: 14. New name for *canariensis*.
canariensis Storå, 1936: 36 (as variety of *flavoscutellata*, preoccupied by *Dasyhelea canariensis* (Santos Abreu), 1918). Canary Islands (Spain).
strigosa Kieffer, 1922g: 514. Algeria.
striipennis Tokunaga, *in* Tokunaga and Murachi, 1959: 312. Micronesia.
suarezi Spinelli and Ronderos, 1987: 11. Argentina.
subaequalis Kieffer, 1915a: 472. Germany.
subgrata Tokunaga, 1961a: 180. Indonesia.
sublettei Wirth, 1987: 73. USA (Texas).
subperfida Tokunaga, 1940e: 174 (1940d: 117). Belau (USA).
subscutellata Tokunaga, 1940e: 175 (1940d: 118). Belau (USA).
suntari Remm, 1993: 195. Russia.
symmetria Tokunaga, 1962a: 191. Japan.
szegedensis Zilahi-Sebess, 1940: 53. Hungary.
taiwana Tokunaga, 1940d: 119. Taiwan.
taiwaniensis Borkent, in this work. New name for *formosana*.
formosana Kieffer, 1922b: 157 (preoccupied by *Dasyhelea formosana* Kieffer, 1921g). Taiwan.
tamsi Wirth and Messersmith, 1977: 305. Seychelles.
tarsalis Kieffer, 1919a: 62. Hungary.
taurica Remm, *in* Remm and Zhogolev, 1968: 834. Ukraine.

tecticola Remmert, 1953: 334. Germany.
tenebrosa (Coquillett), 1905: 64 (*Ceratopogon*). USA (California).
tenerrima Goetghebuer, 1935d: 170. Zaire.
tersa (Johannsen), 1932: 421 (*Tetraphora*). Indonesia.
tessicola Remm, 1972: 74. Russia.
thalestris Macfie, 1935a: 55. Brazil.
theobromatis Wirth and Derron, 1976: 232. São Tomé and Principe.
thienemanni Spataru and Damian-Georgescu, 1970: 425 (as *tienemanni*). Romania.
thompsoni de Meillon, 1936: 202. South Africa.
thomsenae Wirth, 1952a: 160. USA (California).
tibestiensis Clastrier, Rioux and Descous, 1961: 61. Chad.
tigalatensis (Santos Abreu), 1918: 303 (*Culicoides*, as variety of *scutellatus*). Canary Islands (Spain).
townesi Tokunaga and Murachi, 1959: 267. Marshall Islands.
transvaalensis de Meillon, 1959a: 335. South Africa.
traverae Thomsen, 1935: 285. USA (New York).
trifasciata Kieffer, 1918a: 92. Turkey.
trigonata Mayer, 1934c: 181. Indonesia.
tristyla Wirth, 1952a: 165. USA (California).
tropica Clastrier, 1959b: 369. Senegal.
truncata Tokunaga and Murachi, 1959: 297. Belau (USA).
tshatkalensis Remm, 1980: 106. Kyrgyzstan.
tuberculata Remm, 1980: 109. Tajikistan.
tugelae de Meillon, 1936: 197. South Africa.
turanicola Remm and Nazarmukhamedov, 1969: 56. Kazakhstan.
turficola Kieffer, 1925b: 152. Estonia.
grenieri Clastrier, 1966: 703. Canary Islands (Spain).
tymicola Remm, 1993: 194. Russia.
undosternum Remm, 1972: 77. Russia.
unguistyla Remm, 1972: 79. Russia.
unicolor Remm, 1962a: 119. Estonia.
upsilon de Meillon and Wirth, 1987a: 39. South Africa.
varicornis (Santos Abreu), 1918: 288 (*Culicoides*). Canary Islands (Spain).
velutina Remm, 1993: 193. Russia.
verdieri Huttel and Huttel, 1951: 103. France.
versicolor (Winnertz), 1852: 45 (*Ceratopogon*). Germany.
hippocastani (Mik), 1888: 185 (*Ceratopogon*). Austria.
brevitibialis Goetghebuer, 1919: 72. Belgium.
goetghebueri Kieffer, 1919a: 53. Belgium.
villosipes (Kieffer), 1917b: 305 (*Culicoides*). Paraguay.
viridans Forattini and Rabello, 1957: 247. Brazil.
vittata Tokunaga, 1940d: 127. Japan.
vittula Tokunaga, *in* Tokunaga and Murachi, 1959: 271. Guam (USA).
vittulae Tokunaga, 1940d: 120. Japan.
waldiae Macfie, 1937b: 77. Ethiopia.
williamsi Wirth and Waugh, 1976: 228. Trinidad and Tobago.
winderi Wirth and Waugh, 1976: 233. Brazil.
wirthi Clastrier, 1974c: 135. New name for *insignicornis*.
insignicornis Clastrier, Rioux and Descous, 1961: 76 (preoccupied by *Dasyhelea insignicornis* (Kieffer), 1913e). Chad.
wirthicola Szadziewski, 1985a: 94. Pakistan.
wuelkeri Mayer, 1959: 96. Spain.
yoshimurai Tokunaga, 1940d: 124. Japan.
zavreli Kieffer, 1918b: 188. Czech Republic.

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TRIBE CULICOIDINI KIEFFER, 1911d: 1, 1911b: 319

Genus CULICOIDES Latreille

CULICOIDES Latreille, 1809: 251. Type species: *Culicoides punctata* Latreille (= *Ceratopogon punctatus* Meigen), by monotypy.
PADROSIA Rafinesque, 1815: 130 (unnecessary replacement name for *Culicoides* Latreille). Type species: *Culicoides punctata* Latreille (= *Ceratopogon punctatus* Meigen), automatic.

OECACTA Poey, 1853: 238. Type species: *Oecacta furens* Poey, by monotypy.

PSYCHOPHAENA Philippi, 1865: 628. Type species: *Psychophaena pictipennis* Philippi (= *Culicoides venezuelensis* Ortiz and Mirsa), by monotypy.

HAEMATOMYIDIUM Goeldi, 1905: 137. Type species: *Haematomyidium paraensis* Goeldi, by original designation.

COTOCRIPUS Brèthes, 1912: 451. Type species: *Cotocripus caridei* Brèthes, by monotypy.

OXYHELEA Kieffer, 1921b: 14 (as subgenus of *Culicoides*). Type species: *Culicoides dentatus* Kieffer, by monotypy.

DIPLOSELLA Kieffer, 1921h: 113 (as subgenus of *Culicoides*). Type species: *Culicoides sergenti* Kieffer, by monotypy.

HAEMOPHORUCTUS Macfie, 1925: 349. Type species: *Haemophoructus maculipennis* Macfie, by monotypy.

PROSAPELMA Kieffer, 1925a: 417. Type species: *Prosapelma cinerea* Kieffer, by original designation.

SYNHELEA Kieffer, 1925a: 423. Type species: *Culicoides tropicalis* Kieffer, designation by Wirth et al., 1980: 160.

HOFFMANIA Fox, 1948: 21 (as subgenus of *Culicoides*). Type species: *Culicoides inamollae* Fox and Hoffman (= *Culicoides insignis* Lutz), by original designation.

BELTRANMYIA Vargas, 1953a: 34 (as subgenus of *Culicoides*). Type species: *Culicoides crepuscularis* Malloch, by original designation.

SELFIA Khalaf, 1954: 38 (as subgenus of *Culicoides*). Type species: *Culicoides hieroglyphicus* Malloch, by original designation.

MONOCULICOIDES Khalaf, 1954: 39 (as subgenus of *Culicoides*). Type species: *Ceratopogon nubeculosus* Meigen, by original designation.

MACFIELLA Fox, 1955: 217 (as subgenus of *Culicoides*). Type species: *Ceratopogon phlebotomus* Williston, by original designation.

AVARITIA Fox, 1955: 218 (as subgenus of *Culicoides*). Type species: *Ceratopogon obsoletus* Meigen, by original designation.

TRITHECOIDES Wirth and Hubert, 1959: 2 (as subgenus of *Culicoides*). Type species: *Culicoides flaviscutatus* Wirth and Hubert, by original designation.

ANILOMYIA Vargas, 1960: 37 (as subgenus of *Culicoides*). Type species: *Culicoides covagarciai* Ortiz, by original designation.

DRYMODESMYIA Vargas, 1960: 40 (as subgenus of *Culicoides*). Type species: *Culicoides copiosus* Root and Hoffman, by original designation.

DIPHAOMYIA Vargas, 1960: 40 (as subgenus of *Culicoides*). Type species: *Culicoides baueri* Hoffman, by original designation.

GLAPHIROMYIA Vargas, 1960: 41 (as subgenus of *Culicoides*). Type species: *Culicoides scopus* Root and Hoffman, by original designation.

MATAEMYIA Vargas, 1960: 43 (as subgenus of *Culicoides*). Type species: *Culicoides mojingaensis* Wirth and Blanton, by original designation.

MEIJEREHELEA Wirth and Hubert, 1961: 23 (as subgenus of *Culicoides*). Type species: *Ceratopogon guttifer* de Meijere, by original designation.

PONTOCULICOIDES Remm, *in* Remm and Zhogolev, 1968: 840 (as subgenus of *Culicoides*). Type species: *Culicoides tauricus* Gutsevich, by original designation.

CALLOTIA Vargas and Kremer, 1972: 242 (as subgenus of *Culicoides*). Type species: *Culicoides saevus* Kieffer, by original designation.

WIRTHOMYIA Vargas, 1973: 112 (as subgenus of *Culicoides*). Type species: *Culicoides segnis* Campbell and Pelham-Clinton, by original designation.

SENSICULICOIDES Shevchenko, 1977: 133 (as subgenus of *Culicoides*). Type species: *Ceratopogon pictipennis* Staeger, by original designation. *REMMIA* Glukhova, 1977: 116 (as subgenus of *Culicoides*). Type species: *Ceratopogon schultzei* Enderlein, by original designation.

SILVATICULICOIDES Glukhova, 1977: 117 (as subgenus of *Culicoides*). Type species: *Ceratopogon fascipennis* Staeger, by original designation.

NEOCULICOIDES Boorman and Lane,

1979: 327 (preoccupied by *Neoculicoides* Pierce, 1966). Type species: *Neoculicoides taylori* Boorman and Lane, by original designation.

NULLICELLA Lee, 1982: 165 (as subgenus of *Culicoides*). Type species: *Culicoides lasaensis* Lee (by original designation).

SINOCOIDES Chu, 1983: 26 (as subgenus of *Culicoides*). Type species: *Culicoides hamiensis* Chu, by original designation.

JILINOCOIDES Chu, 1983: 28 (as subgenus of *Culicoides*). Type species: *Culicoides dunhuaensis* Chu, by original designation.

AMOSSOVIA Glukhova, 1989: 226 (as subgenus of *Culicoides*). Type species: *Ceratopogon dendrophilus* Amosova, by original designation.

SILVICOLA Mirzaeva and Isaev, 1990: 98 (as subgenus of *Culicoides*). Type species: *Culicoides grisescens* Edwards, by original designation.

TOKUNAGAHELEA Dyce and Meiswinkel, 1995: 131 (as subgenus of *Culicoides*). Type species: *Culicoides mikros* Dyce and Meiswinkel, by original designation.

abbreviatipennis Statz, 1944: 142. Germany. Oligocene.

abchazicus Dzhafarov, 1964: 263. Georgia.

absitus Liu and Yu, 1990: 20. China.

acanthostomus Wirth and Hubert, 1989: 92. Malaysia.

accraensis Carter, Ingram and Macfie, 1920: 241. Ghana.

achrayi Kettle and Lawson, 1955: 37. Great Britain.

acotylus Lutz, 1913: 69. Brazil.
panamericanus Fox, 1947: 90. Mexico.

actoni Smith, 1929: 255 (1932: 180). India.
okumensis Arnaud, 1956a: 119. Japan.
imperceptus Das Gupta, 1962a: 538. India.

adamskii Wirth, 1990: 242. Aldabra (Seychelles).

adersi Ingram and Macfie, 1923: 56. Kenya and Tanzania.

agamus Borkent, 1995: 63. Canada (Manitoba). Upper Cretaceous.

agas Wirth and Hubert, 1989: 438. Indonesia.

aitkeni Wirth and Blanton, 1968a: 214. Trinidad and Tobago.

alachua Jamnback and Wirth, 1963: 187. USA (Florida).

alahialinus Barbosa, 1952: 11 (1953: 12). Ecuador.

alaskensis Wirth, 1951a: 84. USA (Alaska).

alatavicus Gutsevich and Smatov, *in* Smatov and Isimbekov, 1971: 61. New name for *fuscus*.
fuscus Gutsevich and Smatov, 1966: 71 (preoccupied by *Culicoides fuscus* Goetghebuer, 1952). Kazakhstan.

alazanicus Dzhafarov, 1961b: 75. Azerbaijan.
musilator Kremer and Callot, 1961: 693. France.

albibasis Wirth and Hubert, 1959: 31. Malaysia.

albicans (Winnertz), 1852: 41 (*Ceratopogon*). Germany.

albifascia Tokunaga, 1937a: 319. Taiwan.

albipennis Kieffer, 1919a: 32. France.

albomaculus Root and Hoffman, 1937: 164. Mexico.

albopunctatus Clastrier, 1960a: 84. Zaire.

albosparsus Kieffer, 1918a: 52. Ethiopia.

albovenosus Khamala and Kettle, 1971: 53. Uganda.
neoangolensis Kremer, 1972: 83. Angola.

albuquerquei Wirth and Blanton, 1973: 424. Brazil.

alexanderi Wirth and Hubert, 1962: 190. USA (Massachusetts).
pseudopiliferus Wirth and Hubert, 1962: 189. USA (Maryland).

alexandrae Dzhafarov, 1962a: 211. Azerbaijan.

algeriensis Clastrier, 1957: 426. Algeria.

alishanensis Chen, 1983: 80 (1988: 151). China.

allantothecus Wirth and Hubert, 1984: 121. Malaysia.

almeidae Cambournac, 1970b: 251. Portugal.

almirantei Wirth and Blanton, 1959: 454. Panama.

alpicola (Strobl), 1910: 263 (*Ceratopogon*, as variety of *oculatus*). Austria.

altaicus Remm, 1972: 80. Russia.

alticola Kieffer, 1913e: 11. Tanzania.

alvarezi Ortiz, 1957: 161. Venezuela.

amaniensis Khamala and Kettle, 1971: 25. Tanzania.

ameliae Browne, 1980: 543. Colombia.

amossovae Remm, 1971: 205. Russia.
analis Santos Abreu, 1918: 297. Canary Islands (Spain).
andicola Wirth and Lee, 1967: 5. Colombia.
andinus Wirth and Lee, 1967: 17. Colombia.
andrewsi Causey, 1938: 410. Thailand.
angolensis Caeiro, 1961: 289. Angola.
annosus Borkent, 1995: 65. Canada (Manitoba). Upper Cretaceous.
annuliductus Wirth, *in* Vitale et al., 1981: 150. Panama.
anophelis Edwards, 1922: 161. Malaysia and India.
antefurcatus Wirth and Blanton, 1959: 315. Panama.
antennalis Lee and Reye, 1953: 386. Australia (New South Wales).
antunesi Forattini, 1954b: 315. Brazil.
aomoriensis Kitaoka, 1991: 289. Japan.
apiculatus Yu and Zhang, *in* Yu, 1988: 135. China.
arabiensis Boorman, 1989: 173. Oman.
aragaoi Tavares and Luna Dias, 1980: 393. Brazil.
arakawai (Arakawa), 1910: 411 (*Ceratopogon*, as *arakanae*). Japan.
sugimotonis Shiraki, 1913: 286. Taiwan.
alboguttatus Kieffer, 1921g: 563. Taiwan.
shimai (Sasaki), 1928: 687 (*Ceratopogon*). Japan.
daleki Smith and Swaminath, 1932: 185. India.
micropunctatus Tokunaga, 1951: 105. Indonesia.
niigataensis Takahashi, 1958: 115 (as variety of *arakawae*). Japan.
arboreus Gutsevich, 1952: 90. Russia.
arboricola Root and Hoffman, 1937: 166. USA (Maryland).
archboldi Wirth and Blanton, 1970b: 39. Dominica.
ardentissimus Tokunaga, 1940a: 216. Micronesia.
ardleyi Tokunaga, 1962b: 474. Papua New Guinea.
arenarius Edwards, 1922: 164. Somalia.
arenicola Howarth, 1985: 79. Laos.
aricola Kieffer, 1922f: 391. Austria.
arizonensis Wirth and Hubert, 1960a: 655. USA (Arizona).
arnaudi Hubert and Wirth, 1961: 238. Japan.
arubae Fox and Hoffman, 1944: 109. Netherlands Antilles (Netherlands).
asiaticus Gutsevich and Smatov, 1966: 75. Kazakhstan.
atchleyi Wirth and Blanton, 1969a: 559. USA (Alaska).
atelis Wirth, 1982b: 249. Panama.
aterinervis Tokunaga, 1937a: 312. Japan.
atratus Statz, 1944: 147. Germany. Oligocene.
atripalpis Wirth and Blanton, 1973: 325. Brazil.
atripennis Shevchenko, 1972: 77. Ukraine.
aureus Ortiz, 1951c: 585. Venezuela.
miyamotoi Wirth and Blanton, 1953b: 231. Panama.
austeni Carter, Ingram and Macfie, 1920: 261. Ghana.
austerus Statz, 1944: 144. Germany. Oligocene.
australiensis Kieffer, 1917a: 188. Papua New Guinea.
austropalpalis Lee and Reye, 1955: 240. New name for *palpalis*.
palpalis Lee and Reye, 1953: 380 (preoccupied by *Culicoides palpalis* Macfie, 1948). Australia (Queensland).
autumnalis Sen and Das Gupta, 1959a: 628. India.
avilaensis Oritz and Mirsa, 1951: 593. Venezuela.
azerbajdzhanicus Dzhafarov, 1962a: 211. Azerbaijan.
azureus Wirth and Blanton, 1959: 377. Panama.
badooshensis Khalaf, 1961: 460. Iraq.
bahiensis Barbosa, 1947: 11. Brazil.
bahrainensis Boorman, 1989: 177. Bahrain.
baisasi Wirth and Hubert, 1959: 12. Philippines.
bajensis Wirth and Moraes, 1979: 291. Mexico.
bakeri Vargas, 1954: 27. Mexico.
balsapambensis Ortiz and León, 1955: 569 (as variety of *pifanoi*). Ecuador.
balticus Szadziewski, 1988: 41. Poland. Eocene–Lower Oligocene.
bambusicola Lutz, 1913: 62. Brazil.
bancrofti Lee and Reye, 1953: 387. Australia (New South Wales).
barbosai Wirth and Blanton, 1956a: 161. Panama.
barnetti Wirth and Hubert, 1959: 32. Malaysia.

barrosmachadoi Callot, Kremer and Molet, 1967: 39. Angola.
barthi Tavares and Souza, 1978: 619. Brazil.
bassetorum Callot, Kremer and Molet, 1973: 378. Lesotho.
batesi Wirth and Blanton, 1973: 426. Brazil.
sanmartini Wirth and Barreto, 1978: 553. Colombia.
baueri Hoffman, 1925: 297. USA (Maryland).
bayano Wirth, *in* Vitale et al., 1981: 152. Panama.
beaveri Wirth and Barreto, 1978: 557. Colombia.
beckae Wirth and Blanton, 1967: 213. USA (Florida).
bedfordi Ingram and Macfie, 1923: 57. South Africa.
begueti Clastrier, 1957: 432. Algeria.
belemensis Wirth and Blanton, 1973: 427. Brazil.
belgicus Kieffer, 1919a: 43. Belgium.
belkini Wirth and Arnaud, 1969: 509. French Polynesia (France).
benarrochi Oritz and Mirsa, 1952: 126 (as *benarrochei*). Venezuela.
bergi Cochrane, 1973: 311. USA (New York).
bermudensis Williams, 1956: 298. Bermuda (Great Britain).
bernardae Itoua and Cornet, 1986: 244. Congo.
besscus Liu and Yu, 1990: 15. China.
beybienkoi Dzhafarov, 1962b: 183. Azerbaijan.
biarcuatus Vimmer, 1932: 137. Israel.
bickleyi Wirth and Hubert, 1962: 188. USA (Maryland).
bipalus Yu, 1991: 52. New name for *biclavatus*.
biclavatus Deng and Yu, *in* Zhang et al., 1990: 27 (preoccupied by *Culicoides biclavatus* Kieffer, 1924a). China.
bicolor Statz, 1944: 146. Germany. Oligocene.
bicultellus Yu and Liu, 1990: 3. China.
biestroi Spinelli and Ronderos, 1991: 86. Argentina.
bifidus Borkent, 1996: 19. USA (New Jersey). Upper Cretaceous.
bigeminus Wirth and Hubert, 1989: 336. Malaysia.
biguttatus (Coquillett), 1901a: 604 (*Ceratopogon*). USA (District of Columbia).
bilobatus Kieffer, 1912c: 6. Sri Lanka.
bimaculatus Floch and Abonnenc, 1942b: 3. French Guiana.
biscapus Kieffer, 1925a: 418. Vietnam.
bisignatus Kieffer, 1921b: 14. Cameroon.
bisolis Kremer and Brunhes, 1973: 287. Madagascar.
blantoni Vargas and Wirth, 1955: 33. Mexico.
bodenheimeri Vimmer, 1932: 138. Israel.
bolitinos Meiswinkel, 1989: 30. South Africa.
boliviensis Spinelli and Wirth, 1984a: 172. Bolivia.
boophagus Macfie, 1937c: 116. Malaysia.
boormani Giles and Wirth, 1985: 365. Malaysia.
borinqueni Fox and Hoffman, 1944: 110. Puerto Rico (USA).
bottimeri Wirth, 1955: 356. USA (Texas).
bougainvillae Tokunaga, 1962b: 492. Papua New Guinea.
boydi Wirth and Mullens, 1992: 1006. USA (California).
brasilianum Forattini, 1956a: 81. Brazil.
bredini Wirth and Blanton, 1970b: 41. Dominica.
brevipalpis Delfinado, 1961: 654. Philippines.
brevipenis Mai and Yu, *in* Hao et al., 1990: 42. China.
brevitarsis Kieffer, 1917a: 187. Australia.
robertsi Lee and Reye, 1953: 386. Australia (Queensland).
radicitus Delfinado, 1961: 657. Philippines.
superfulvus Das Gupta, 1962b: 253. India.
bricenoi Ortiz, 1951a: 445. Venezuela.
brinchangensis Wirth and Hubert, 1989: 190. Malaysia.
bromophilus Kieffer, 1922f: 391. Austria.
brookmani Wirth, 1952a: 179. USA (California).
brosseti Vattier and Adam, 1966a: 297. Gabon.
brownei Spinelli, *in* Spinelli et al., 1993: 24. Colombia.
brucei Austen, 1909: 282. Uganda.
pseudopulicaris Goetghebuer, 1935d: 173. Zaire.

hirtius de Meillon and Lavoipierre, 1944: 58. South Africa.
brunnicans Edwards, *in* Edwards et al., 1939: 43. Great Britain.
bubalus Delfinado, 1961: 658. Philippines.
buettikeri Boorman, 1989: 179. Oman.
buhetoensis Takahasi, 1941: 81. China.
bulbostylus Khalaf, 1961: 463. Iraq.
bullus Borkent, 1995: 61. Canada (Alberta). Upper Cretaceous.
bundyensis Lee and Reye, 1955: 239. Australia (New South Wales).
bunrooensis Lee and Reye, 1955: 238. Australia (Queensland).
burylovae Glukhova and Khabirov, 1977: 52 (as *burylovi*). Tajikistan.
butleri Wirth and Hubert, 1960a: 650. USA (Arizona).
bwambanus de Meillon, 1952: 173. Uganda.
byersi Atchley, 1967: 983. USA (New Mexico).
cacticola Wirth and Hubert, 1960a: 653. USA (California).
calcaratus Wirth and Hubert, 1989: 157. Malaysia.
caldasi Browne, 1980: 535. Colombia.
calexicanus Wirth and Rowley, 1971: 156. USA (California).
californiensis Wirth and Blanton, 1967: 215. USA (California).
caliginosus Goetghebuer, 1952: 2. Belgium.
calloti Kremer, Delécolle, Bailly-Choumara and Chaker, 1979: 195. Morocco.
cambodiensis Chu, 1986: 253. Cambodia.
cameronensis Kitaoka, 1983: 94. Malaysia.
cameroni Campbell and Pelham-Clinton, 1960: 222. Great Britain.
camicasi Cornet and Chateau, 1971: 160. Senegal.
camposi Ortiz and León, 1955: 569. Ecuador.
fairchildi Wirth and Blanton, 1955a: 102. Panama.
canadensis (Boesel), 1937: 47 (*Atrichopogon*). Canada (Manitoba). Upper Cretaceous.
cancer Hogue and Wirth, 1968: 2. Costa Rica.
cancrisocius Macfie, 1946: 15. Fiji.
capillosus Borkent, in this work. New name for *hirtus*.
hirtus Xue and Yu, *in* Zhang et al., 1990: 30 (preoccupied by *Culicoides hirtius* de Meillon and Lavoipierre, 1944). China.
caprilesi Fox, 1952: 364. Venezuela.
kintzi Wirth and Blanton, 1953a: 72. Panama.
caridei (Brèthes), 1912: 451 (*Cotocripus*). Argentina.
setifer (Lutz), 1913: 64 (*Centrorhynchus*). Brazil.
carpenteri Wirth and Blanton, 1953a: 72. Panama.
carpophilus Wirth and Hubert, 1989: 196. Malaysia.
carri Pierce, 1966: 91. USA (California). Miocene.
carsiomelas Wirth and Blanton, 1955a: 100. Panama.
carvalhoi Wirth and Blanton, 1973: 429. Brazil.
casei Grogan and Szadziewski, 1988: 809. USA (New Jersey). Upper Cretaceous.
cassideus Zhang and Yu, *in* Zhang et al., 1990: 27. China.
castillae Fox, 1946a: 251. Honduras.
gibsoni Wirth, 1952d: 246. Guatemala.
flochabonnenci Ortiz and Mirsa, 1952: 267. Venezuela.
cataneii Clastrier, 1957: 438. Algeria.
catharinae Kremer, Delécolle and Braverman, 1991: 151. Israel.
caucaensis Wirth and Lee, 1967: 19. Colombia.
caucoliberensis Callot, Kremer, Rioux and Descous, 1967: 827. France.
cavaticus Wirth and Jones, 1956: 166 USA (California).
ceranowiczi Szadziewski, 1988: 45. Poland. Eocene–Lower Oligocene.
certus Das Gupta, 1962a: 537. India.
ceylanicus Kieffer, 1912c: 5. Sri Lanka.
chacoensis Spinelli and Wirth, 1984a: 174. Argentina.
chagyabensis Lee, 1982: 169. China.
charadraeus Arnaud, 1956a: 97. Japan.
charruus Spinelli and Martinez, 1992: 176. Uruguay.
chateaui Cornet, 1970: 357. Senegal.
cheahi Kitaoka, 1983: 92. Malaysia.
chengduensis Zhou and Lee, 1984a: 222. China.
cheni Kitaoka and Tanaka, 1985: 43. Taiwan.
chewaclae Glick and Mullen, 1983: 378. USA (Alabama).

chiopterus (Meigen), 1830: 263 (*Ceratopogon*). Europe.
amoenus (Winnertz), 1852: 35 (*Ceratopogon*). Germany.
similis (Goetghebuer), 1927a: 203 (*Monohelea*, preoccupied by *Culicoides similis* Carter, Ingram and Macfie, 1920). Belgium.
dobyi Callot and Kremer, 1969a: 610. France.
chitinosus Gutsevich and Smatov, 1966: 67. Kazakhstan.
chrysonotus Wirth and Blanton, 1956b: 226. Panama.
cilipes Kieffer, 1921d: 275. Latvia.
cinereus (Kieffer), 1925a: 417 (*Prosapelma*). Slovak Republic.
circumbasalis Tokunaga, 1959: 232. Indonesia.
praesignis Delfinado, 1961: 652. Philippines.
circumscriptus Kieffer, 1918a: 49. Tunisia.
nadayanus Kieffer, 1918a: 95. Turkey.
edwardsi Goetghebuer, 1921: 177. Belgium.
algarum Kieffer, 1924a: 18. Germany.
salicola Kieffer, 1924b: 405. Norway.
pictidorsum Kieffer, 1924b: 406 (as variety of *salicola*). Norway.
albonotatus Vimmer, 1932: 133 (preoccupied by *Culicoides albonotatus* Kieffer, 1918a). Israel.
albosignatus Vimmer, 1932: 135. Israel.
polymaculatus Vimmer, 1932: 135. Israel.
pulcher Zilahi-Sebess, 1934: 155 (misspelled as *pulscher*). Bulgaria.
kirovabadicus Dzhafarov, 1964: 228. Azerbaijan.
citroneus Carter, Ingram and Macfie, 1920: 259. Ghana.
claggi Tokunaga, *in* Tokunaga and Murachi, 1959: 338. Bonin Islands.
clarkei Carter, Ingram and Macfie, 1920: 246. Ghana.
clastrieri Callot, Kremer and Deduit, 1962: 156. France.
clavipalpis Mukerji, 1931: 1052. India.
candidus Sen and Das Gupta, 1959a: 620. India.
cleaves Liu, 1995: 9. China.
clintoni Boorman, 1984: 164. Great Britain.
clivus Yu and Liu, 1990: 3. China.
coarctatus Clastrier and Wirth, 1961b: 312. Nigeria.
cochisensis Wirth and Blanton, 1967: 216. USA (Arizona).
cockerellii (Coquillett), 1901a: 603 (*Ceratopogon*). USA (Colorado).
combinothecus Yu and Liu, *in* Yu et al., 1986: 211. China.
commatis Wirth and Blanton, 1959: 321. Panama.
comosioculatus Tokunaga, 1956: 121. Japan.
chaetophthalmus Amosova, 1957: 237. Russia.
caucasicus Sergejev, 1959: 203 (as subspecies of *chaetophthalmus*). Russia.
setosus Gutsevich, 1960: 106. Ukraine.
conaensis Liu and Yu, 1990: 19. China.
confusus Carter, Ingram and Macfie, 1920: 250. Ghana.
congolensis Clastrier, 1960a: 98. Congo.
continualis Qu and Liu, 1982: 102. China.
copiosus Root and Hoffman, 1937: 171. Mexico.
coracinus Borkent, in this work. New name for *niger*.
niger Tokunaga, 1941b: 98 (as *nigrus*, as variety of *arcuatus*, preoccupied by *Culicoides niger* Root and Hoffman, 1937). China.
cordiformis Kieffer, 1927: 61. Estonia.
cordiger Macfie, 1934c: 193. Malaysia.
magnesianus Lee and Reye, 1953: 385. Australia (Queensland).
corneti Kremer, 1972: 92. Angola.
corniculus Liu and Qu, 1981: 419. China.
cornutus de Meillon, 1937b: 332. South Africa.
coronalis Lee and Reye, 1955: 234. Australia (Queensland).
corsicus Kremer, Leberre and Beaucournu-Saguez, 1971: 655. France.
corsoni Ingram and Macfie, 1921: 324. Ghana.
corti Causey, 1938: 411. Thailand.
costalis Tokunaga, 1963b: 132. Papua New Guinea.
coutinhoi Barretto, 1944: 96. Brazil.
covagarciai Ortiz, 1950b: 457. Venezuela.
beebei Fox, 1952: 366. Venezuela.
crassipilosus Tokunaga, 1937a: 276. Japan.
balius Arnaud, 1956a: 96. Japan.
crassus Tokunaga, 1962b: 508. Papua New Guinea.

crepuscularis Malloch, 1915a: 303. USA (Illinois).
crescentis Wirth and Blanton, 1959: 317. Panama.
crucifer Clastrier, 1968: 85. French Guiana.
cuiabai Wirth, 1982b: 250. Brazil.
culiciphagus Wirth and Hubert, 1959: 11. Solomon Islands.
cunctans (Winnertz), 1852: 42 (*Ceratopogon*). Germany.
cuniculus Lee and Reye, 1953: 389. Australia (Queensland).
cylindratus Kitaoka, 1980: 16. Japan.
cylindricornis Wirth and Blanton, 1973: 430. Brazil.
cylindripalpis Wirth and Hubert, 1989: 98. Malaysia.
daedaloides Wirth and Blanton, 1959: 330. Panama.
daedalus Macfie, 1948: 83. Mexico.
dalessandroi Wirth and Barreto, 1978: 556. Colombia.
damnosus Delfinado, 1961: 642. Philippines.
dampfi Root and Hoffman, 1937: 169. Mexico.
darlingtonae Wirth and Blanton, 1971a: 39. Trinidad and Tobago.
dasyheleiformis Szadziewski, 1988: 36. Baltic region. Eocene–Lower Oligocene.
dasyophrus Macfie, 1940d: 27. Guyana.
dasyops Clastrier, 1958b: 217. Senegal.
davidi Spinelli, *in* Spinelli et al., 1993: 30. Colombia.
daviesi Wirth and Blanton, 1968b: 251. Guyana.
davisi Wirth and Rowley, 1971: 157. USA (Washington).
deanei Felippe-Bauer and Wirth, 1987: 416. Brazil.
decor (Williston), 1896: 281 (*Ceratopogon*). St. Vincent.
definitus Sen and Das Gupta, 1959a: 622. India.
defoliarti Atchley and Wirth, 1979: 527. USA (Arizona).
dekeyseri Clastrier, 1958b: 214. Senegal.
delfinadoae Wirth and Hubert, 1989: 386. Malaysia.
deltus Edwards, *in* Edwards et al., 1939: 48. Great Britain.
lupicaris Downes and Kettle, 1952: 76. Great Britain.
dendriticus Boorman, 1976: 102. Great Britain.
dendrophilus Amosova, 1957: 240. Russia.
reesi Bullock and Akiyama, 1959: 24. Japan.
denisae Clastrier, 1971: 290. French Guiana.
denisoni Boorman, 1988: 152. Greece.
denningi Foote and Pratt, 1954: 20. Canada (Saskatchewan).
dentatus Kieffer, 1921b: 13. Cameroon.
denticulatus Wirth and Hubert, 1962: 193. USA (Wisconsin).
dentiformis McDonald and Lu, 1972: 403. Taiwan.
derisor Callot and Kremer, 1965: 330. France.
desertorum Gutsevich, 1959: 675. Turkmenistan and Uzbekistan.
pictus Khalaf, 1961: 455. Iraq.
brevifrontis Smatov and Isimbekov, 1971: 62. Kazakhstan.
oxianus Smatov, *in* Smatov and Kravets, 1976: 282. Kazakhstan.
dewulfi Goetghebuer, 1936: 320. Belgium.
pseudochiopterus Downes and Kettle, 1952: 67. Great Britain.
diabolicus Hoffman, 1925: 294. Panama.
diamouanganai Itoua and Cornet, 1986: 237. Congo.
dicrourus Wirth and Blanton, 1955b: 123. Panama.
diffusus Spinelli, *in* Spinelli et al., 1993: 34. Brazil.
digitalis Remm, 1973: 178. Mongolia.
dikhros Tokunaga, 1962b: 507. Papua New Guinea.
discrepans Ortiz and Mirsa, 1951: 595. Venezuela.
dispar Clastrier, 1959a: 175. Senegal.
dispersus Gutsevich and Smatov, 1966: 76. Kazakhstan.
distinctipennis Austen, 1912: 101. Nigeria.
multiguttatus (Goetghebuer), 1935d: 156 (*Forcipomyia*). Zaire.
distinctus Sen and Das Gupta, 1959a: 618. India.
divisus Wirth and Hubert, 1989: 198. Malaysia.
doeringae Atchley, 1967: 1014. USA (New Mexico).
dominicanus Wirth and Blanton, 1970d: 146. Dominica.

downesi Wirth and Hubert, 1962: 186. Canada (Ontario).
dryadeus Wirth and Hubert, 1972: 41. Malaysia.
duartei Tavares and Luna Dias, 1980: 395. Brazil.
dubitatus Kremer, Rebholtz-Hirtzel and Delécolle, 1976: 233. Angola.
dubius Arnaud, 1956a: 100. Japan.
duddingstoni Kettle and Lawson, 1955: 42. Great Britain.
dukinensis Mirzaeva, 1985: 98. Russia.
dumdumi Sen and Das Gupta, 1959a: 628. India.
dungunensis Wirth and Hubert, 1989: 125. Malaysia.
dunhuaensis Chu, 1983: 28. China.
dunni Wirth and Blanton, 1959: 328. Panama.
duodenarius Kieffer, 1922b: 157. Taiwan.
dureti Ronderos and Spinelli, 1995a: 59. Paraguay.
dutoiti de Meillon, 1943: 100. South Africa.
vagus Cornet and Chateau, 1971: 156. Senegal.
dycei Lee and Reye, 1953: 390. Australia (New South Wales).
dzhafarovi Remm, 1967: 25. Azerbaijan.
dzhafarovi Callot, Kremer, Molet and Bach, 1968: 95. France.
eadsi Wirth and Blanton, 1971a: 37. USA (Texas).
edeni Wirth and Blanton, 1974a: 23. USA (Florida).
efferus Fox, 1952: 365. Peru.
effusus Delfinado, 1961: 658. Philippines.
elbeli Wirth and Hubert, 1959: 27. Malaysia.
eldridgei Wirth and Barreto, 1978: 561. Colombia.
elemae Pappas and Pappas, 1989: 228. USA (Nebraska).
elongatulus Statz, 1944: 143. Germany. Oligocene.
elongatus Chu and Liu, 1978: 83. China.
elutus Macfie, 1948: 75. Mexico.
enderleini Cornet and Brunhes, 1994: 157. Senegal.
engubandei de Meillon, 1937b: 337. South Africa.
eoselficus Szadziewski, 1988: 43. Poland. Eocene–Lower Oligocene.
equatoriensis Barbosa, 1952: 13 (1953: 14) (as variety of *debilipalpis*). Ecuador.
erairai Kono and Takahasi, 1940: 70. Japan.
erikae Atchley and Wirth, 1979: 532. USA (New Mexico).
eriodendroni Carter, Ingram and Macfie, 1920: 250. Ghana.
erkaensis Yu and Yang, *in* Yu, 1988: 136. China.
esakii Esaki, 1939: 234. Micronesia.
esakii Tokunaga, 1940a: 217. Micronesia.
espinolai Felippe-Bauer and Lourenco-de-Oliveira, 1987: 149. Brazil.
estevezae Ronderos and Spinelli, 1994: 47. Argentina.
eublepharus Macfie, 1948: 86. Guyana.
evansi Wirth and Blanton, 1959: 342. Panama.
excavatus Khamala and Kettle, 1971: 24. Uganda.
expallens Remm, 1973: 176. Mongolia.
exspectator Clastrier, 1959a: 177. Senegal.
fadzili Kitaoka, 1983: 97. Malaysia.
faghihi Navai, 1971: 199. Iran.
fagineus Edwards, *in* Edwards et al., 1939: 147. Great Britain.
farri Wirth and Blanton, 1970d: 148. Jamaica.
fascipennis (Staeger), 1839: 594 (*Ceratopogon*). Denmark.
distictus Kieffer, *in* Thienemann and Kieffer, 1916: 492. Sweden.
albonotatus Kieffer, 1918a: 94. Turkey.
turficola Kieffer, 1925b: 155. Estonia.
fernandezi Ortiz, 1954: 223. Venezuela.
fernandoi Tavares and Sousa, 1979: 611. Brazil.
ferreyrai Ronderos and Spinelli, 1995a: 61. Argentina.
festivipennis Kieffer, 1914a: 235. Germany.
odibilis Austen, 1921: 114. Israel.
winnertzi Edwards, 1926a: 406. Germany.
fieldi Wirth and Blanton, 1956c: 50. Honduras.
filariferus Hoffman, 1939: 172. Mexico.
filicinus Gornostaeva and Gachegova, 1972: 522. Russia.
filiductus Wirth, *in* Vitale et al., 1981: 155. Panama.
filipalpis Remm, 1976b: 111. Russia. Upper Cretaceous.
firuzae Dzhafarov, 1958: 245. Azerbaijan.
fittkaui Wirth and Blanton, 1973: 432. Brazil.

flavescens Macfie, 1937c: 114 (as variety of *anophelis*). Malaysia.
subflavescens Wirth and Hubert, 1959: 14. Indonesia.
flavidorsalis Tokunaga, 1959: 245. Papua New Guinea.
flavidorsum Shevchenko and Lisetsky, 1969: 1413. Russia.
flavimaculinotalis Tokunaga, 1940e: 180 (1940d: 142). Micronesia.
flavipes Vimmer, 1932: 136. Israel.
flavipulicaris Dzhafarov, 1964: 238. Azerbaijan.
flavipunctatus Kitaoka, 1975: 199. Japan.
flavirostris Vimmer, 1932: 137. Israel.
flaviscriptus Tokunaga, 1959: 252. Papua New Guinea.
flaviscutatus Wirth and Hubert, 1959: 34. Indonesia.
flaviscutellaris Wirth and Hubert, 1989: 132. Malaysia.
flavitibialis Kitaoka and Tanaka, 1985: 42. Taiwan.
flavivenulus Costa Lima, 1937a: 418. Brazil.
flavus Gornostaeva, 1980: 81 (as subspecies of *grisescens*). Russia.
flavisomum Mirzaeva, 1984b: 67. Russia.
anadyriensis Mirzaeva, 1984b: 70. Russia.
flinti Wirth, 1982b: 251. Argentina.
florenciae Messersmith, 1972: 167. Colombia.
floridensis Beck, 1951: 135. USA (Florida).
flukei Jones, 1956: 30. USA (Wisconsin).
flumineus Macfie, 1937c: 116. Malaysia.
fluvaitilis Xiang and Yu, *in* Ma et al., 1990: 47. China.
fluvialis Macfie, 1940d: 25. Guyana.
fluviatilis (Lutz), 1914: 82 (*Johannseniella*). Brazil.
scorzai Ortiz, 1956: 93. Venezuela.
foleyi Kieffer, 1922g: 503. Algeria.
footei Wirth and Jones, 1956: 162. USA (Virginia).
forattinii Ortiz, 1961: 211. Venezuela.
fordae Lee, 1988: 53 (as *fordae* Wirth and Hubert). China.
fordae Wirth and Hubert, 1989: 133 (preoccupied by *Culicoides fordae* Lee, 1988). Malaysia.
fossicola Kieffer, 1922c: 236. Germany.
fossilis Pierce, 1966: 91. USA (California). Miocene.
foxi Ortiz, 1950c: 461. Puerto Rico (USA).
fragmentum Tokunaga, 1962b: 507. Papua New Guinea.
franclemonti Cochrane, 1974: 128. USA (New York).
franklini Spinelli, *in* Spinelli et al., 1993: 45. Panama.
freeborni Wirth and Blanton, 1969b: 217. USA (California).
freitasi Wirth and Blanton, 1973: 434. Brazil.
fretensis Wang and Yu, *in* Wang et al., 1990: 73. China.
frohnei Wirth and Blanton, 1969b: 219. USA (Alaska).
fukienensis Chen and Tsai, 1962: 395. China.
fukudai Wada, 1990: 56. Japan.
fulbrighti Lee and Reye, 1963: 361. Australia (New South Wales).
fulvithorax (Austen), 1912: 105 (*Johannseniella*). Kenya.
citrinus Kieffer, 1921b: 15. Cameroon.
ruficollis Goetghebuer, 1935d: 174. Zaire.
fulvus Sen and Das Gupta, 1959a: 628. India.
furcillatus Callot, Kremer and Paradis, 1962: 771. France.
furens (Poey), 1853: 238 (*Oecacta*). Cuba.
maculithorax (Williston), 1896: 277 (*Ceratopogon*). St. Vincent.
dovei Hall, 1932: 88. USA (Georgia).
birabeni Cavalieri, 1966: 59. Venezuela.
furensoides Williams, 1955: 271. Michigan.
dickei Jones, 1956: 28. USA (Wisconsin).
fuscus Goetghebuer, 1952: 1. Belgium.
fusipalpis Wirth and Blanton, 1973: 435. Brazil.
gabaldoni Ortiz, 1954: 221. Venezuela.
galindoi Wirth and Blanton, 1953a: 73. Panama.
galliardi Callot, Kremer and Molet, 1973: 381. Lesotho.
gambiae Clastrier and Wirth, 1961b: 308. Gambia.
gaponus Yu, 1982: 202. China.
garciai Wirth and Hubert, 1989: 304. Malaysia.
gedanensis Szadziewski, 1988: 46. Poland. Eocene–Lower Oligocene.
gejgelensis Dzhafarov, 1964: 282. Azerbaijan.
gemellus Macfie, 1934c: 192. Malaysia.
geminus Macfie, 1937d: 472. Malaysia.

bifasciatus Tokunaga, 1951: 104. Indonesia.
gentilis Macfie, 1934c: 191. Malaysia.
gentiloides Kitaoka and Tanaka, 1985: 41. Taiwan.
geocheloneoides Dyce and Meiswinkel, 1995: 140. Indonesia.
germanus Macfie, 1940d: 27. Guyana.
gewertzi Causey, 1938: 409. Thailand.
gigaforceps Remm, 1973: 180. Mongolia.
giganteus Khamala and Kettle, 1971: 35. Kenya.
gigas Root and Hoffman, 1937: 172. Canada (Saskatchewan).
ginesi Ortiz, 1951c: 586. Venezuela.
glabellus Wirth and Blanton, 1956c: 47. Panama.
glabrior Macfie, 1940d: 27 (as variety of *debilipalpis*). Guyana.
grahambelli Forattini, 1956b: 35. Panama.
glabripennis Goetghebuer, 1935d: 171 (1948b: 12). New name for *nudipennis*.
nudipennis Goetghebuer, 1933e: 146 (preoccupied by *Culicoides nudipennis* Kieffer, 1922g). Zaire.
spinifer Khamala and Kettle, 1971: 51. Kenya.
gladysae Kettle, Elson and Dyce, 1976: 173. Australia (Queensland).
gluchovae Mirzaeva, 1974: 27. Russia.
wushenensis Lee (as Li), 1974: 353. China.
glushchenkoae Glukhova, 1989: 200. Russia
goeldii Wirth and Blanton, 1973: 437. Brazil.
gorgasi Wirth and Blanton, 1953b: 232. Panama.
gornostaevae Mirzaeva, 1984a: 371. Russia.
gouldi Wirth and Hubert, 1989: 139. Malaysia.
gracilior Statz, 1944: 143. Germany. Oligocene.
gracilipes Vaillant, 1954: 227. France.
grahamii Austen, 1909: 280. Ghana.
habereri Becker, 1909: 289. Cameroon.
hostilissimus (Pittaluga), 1911a: 29 (1911b: 69; 1912: 597) (*Oecacta*). Guinea.
kivuensis Goetghebuer, 1935d: 173. Zaire.
trichopis de Meillon, 1937b: 328. Zaire.
grandibocus Borkent, 1996: 19. USA (New Jersey). Upper Cretaceous.
gregsoni Wirth and Blanton, 1969b: 222. Canada (British Columbia).
grenieri Vattier and Adam, 1966b: 723. Congo.
griffithi Wirth and Hubert, 1989: 307. Thailand.
griseidorsum Kieffer, 1918a: 46. Algeria.
saevanicus Dzhafarov, 1960b: 94. Armenia.
grisescens Edwards, *in* Edwards et al., 1939: 146. Great Britain.
arschanicus Mirzaeva, 1984b: 69. Russia.
guadeloupensis Floch and Abonnenc, 1950b: 2. Guadeloupe.
guamai Wirth and Blanton, 1973: 438. Brazil.
guarani Ronderos and Spinelli, 1994: 48. Argentina.
guerrai Wirth and Blanton, 1971a: 41. Trinidad and Tobago.
guineensis Kieffer, 1918a: 54. Guinea.
gulbenkiani Caeiro, 1959: 155. South Africa.
guranti Ronderos and Spinelli, 1994: 48. Argentina.
gutsevichi Sen and Das Gupta, 1958b: 163 (1959b: 65). New name for *orientalis*.
orientalis Gutsevich, 1952: 92 (preoccupied by *Culicoides orientalis* Macfie, 1932b). Russia.
bisulcatus Gutsevich, 1959: 681. New name for *orientalis*.
guttatus (Coquillett), 1904c: 35 (*Ceratopogon*). Brazil.
guttifer (de Meijere), 1907: 209 (*Ceratopogon*). Indonesia.
guttipennis (Coquillett), 1901a: 603 (*Ceratopogon*). USA (Ohio).
guyanensis Floch and Abonnenc, 1942a: 4. French Guiana.
recifensis Barbosa, 1943: 263. Brazil.
stubalensis Fox, 1946a: 254. Trinidad and Tobago.
gymnopterus Edwards, 1926b: 247. Malaysia.
haematopotus Malloch, 1915a: 302. USA (Illinois).
hainanensis Lee, 1975: 433. China.
haitiensis Delécolle, Raccurt and Rebholtz, 1986: 108. Haiti.
halonostictus Wirth and Hubert, 1989: 431. Thailand.
hamiensis Chu, Qian and Ma, 1982: 109. China.

hanae Braverman, Delécolle and Kremer, 1983: 678. Egypt.
haranti Rioux, Descous and Pech, 1959: 432. France.
hawsi Wirth and Rowley, 1971: 159. USA (Washington).
hayakawai Kitaoka, 1984: 301. Japan.
hayesi Matta, 1967: 75. Honduras.
hegneri Causey, 1938: 402. Thailand.
heliconiae Fox and Hoffman, 1944: 108. Venezuela.
rozeboomi Barbosa, 1947: 26. Trinidad and Tobago.
heliophilus Edwards, 1921: 124. Great Britain.
helveticus Callot, Kremer and Deduit, 1962: 164. Switzerland.
hengduanshanensis Lee, 1984: 88. China.
henryi Lee and Reye, 1963: 360. Australia (Queensland).
herero (Enderlein), 1908: 460 (*Ceratopogon*). Namibia.
heteroclitus Kremer and Callot, *in* Callot and Kremer, 1965: 333 (Callot and Kremer, 1966: 941). France.
hewitti Causey, 1938: 413. Thailand.
hieroglyphicus Malloch, 1915a: 297. USA (Arizona).
hildae Cornet and Nevill, 1979: 179. South Africa.
himalayae Kieffer, 1911b: 326. India.
hinmani Khalaf, 1952b: 353. USA (Oklahoma).
hinnoi Howarth, 1985: 33. Laos.
hirsutus Khamala and Kettle, 1971: 59. Uganda.
hirtipennis Delfinado, 1961: 662. Philippines.
hirtulus (Coquillett), 1900: 396 (*Ceratopogon*). USA (Alaska).
histrio Johannsen, 1946: 190 (as variety of *guttifer*). Guam (USA).
mackayensis Lee and Reye, 1953: 383. Australia (Queensland).
hitchcocki Spinelli and Wirth, 1984a: 176. Peru.
hoffmani Fox, 1946a: 251. Trinidad and Tobago.
hoffmanioides Wirth and Hubert, 1989: 173. Malaysia.
hoguei Wirth and Moraes, 1979: 293. USA (California).
hokkaidoensis Kitaoka, 1984: 303. Japan.
holcus Lee, 1980: 85. China.
hollandiensis Tokunaga, 1959: 226. Indonesia.
hollensis (Melander and Brues), 1903: 13 (*Ceratopogon*). USA (Massachusetts).
canithorax Hoffman, 1925: 284. USA (Georgia).
homochrous Remm, *in* Remm and Zhogolev, 1968: 835. Ukraine.
homotomus Kieffer, 1922b: 158. Taiwan.
osakensis Iwata, 1935: 7. Japan.
denmeadi Causey, 1938: 403. Thailand.
hornsbyensis Lee and Reye, 1963: 361. Australia (New South Wales).
horridus Yu and Deng, *in* Yu, 1988: 136. China.
hortensis Khamala and Kettle, 1971: 29. Uganda.
horticola Lutz, 1913: 61. Brazil.
huayingensis Zhou and Lee, 1984b: 293. China.
huambensis Caeiro, 1961: 179 (as *huambenis*). Angola.
huberti Howarth, 1985: 35. Laos.
huffi Causey, 1938: 406. Thailand.
hui Wirth and Hubert, 1961: 16. Taiwan.
hulinensis Liu and Yu, 1996: 135. China.
humeralis Okada, 1941: 20. Japan.
huochengensis Ma and Yu, *in* Ma et al., 1990: 47. China.
husseyi Wirth and Blanton, 1971c: 76. USA (Florida).
hyalinus Tokunaga, 1962b: 472. Papua New Guinea.
hylas Macfie, 1940d: 26. Guyana.
ibericus Dzhafarov, 1964: 355. Azerbaijan.
ibriensis Boorman, 1989: 181. Oman.
ichesi Ronderos and Spinelli, 1995b: 77. Argentina.
ignacioi Forattini, 1957: 215. Brazil.
saintjusti Tavares and Ruiz, 1980: 27. Brazil.
iliensis Gutsevich and Smatov, 1966: 68. Kazakhstan.
imicola Kieffer, 1913e: 11. Kenya.
pallidipennis Carter, Ingram and Macfie, 1920: 265. Ghana.
iraqensis Khalaf, 1957b: 343. Iraq.
minutus Sen and Das Gupta, 1959a: 622. India.
pseudoturgidus Das Gupta, 1962a: 537. India.
imitator Ortiz, 1953b: 807. Venezuela.

immaculatus Lee and Reye, 1953: 375. Australia (Queensland).
impunctatus Goetghebuer, 1920: 55. Belgium.
minor Tokunaga, 1941b: 97 (as variety of *impunctatus*). China.
impusilloides Spinelli and Wirth, 1984a: 178. Brazil.
incertus Yu and Zhang, *in* Yu, 1988: 137. China.
indianus Macfie, 1932b: 488. India.
inexploratus Sen and Das Gupta, 1959a: 628. India.
inflatipalpalis Tokunaga, 1963b: 125. Papua New Guinea.
infulatus Delfinado, 1961: 644. Philippines.
innoxius Sen and Das Gupta, 1959a: 626. India.
inornatipennis Carter, Ingram and Macfie, 1920: 227. Ghana.
inornatithorax Das Gupta, 1963: 36. India.
insignipennis Macfie, 1937d: 469. Malaysia.
insignis Lutz, 1913: 51. Brazil.
inamollae Fox and Hoffman, 1944: 110. Puerto Rico (USA).
painteri Fox, 1946a: 257. Honduras.
insinuatus Ortiz and León, 1955: 577. Ecuador.
insolatus Wirth and Hubert, 1960a: 654. Mexico.
insolens Choudhuri and Das Gupta, *in* Choudhuri et al., 1986: 54. India.
insulanus Macfie, 1933a: 77. French Polynesia (France).
insularis Kitaoka, 1980: 18. Japan.
interrogatus Lee and Reye, 1963: 358. Australia (New South Wales).
inyoensis Wirth and Blanton, 1969a: 565. USA (California).
iphthimus Zhou and Lee, 1984b: 295. China.
iranicus Navai, 1971: 202. Iran.
iriartei Fox, 1952: 368. Venezuela.
vargasi Wirth and Blanton, 1953a: 74. Panama.
iriomotensis Kitaoka, 1975: 198. Japan.
irwini Spinelli and Wirth, 1984a: 180. Chile.
isechnoensis Glick, 1990: 108. Kenya.
isioloensis Cornet, Nevill and Walker, 1974: 240. Kenya.
jacksoni Atchley, 1970: 258. USA (New Mexico).
jacobsoni Macfie, 1934d: 215. Indonesia.
buckleyi Macfie, 1937c: 117. Malaysia.
kitaokai Tokunaga, 1955: 6. Japan.
unisetiferus Tokunaga, 1959: 236. Papua New Guinea.
jamaicensis Edwards, 1922: 165 (as variety of *loughnani*). Jamaica.
jamesi Fox, 1946b: 244. USA (Montana).
jamnbacki Wirth and Hubert, 1962: 192. USA (New York).
japonicus Arnaud, 1956a: 106. Japan.
litoreus Amosova, 1957: 241. Russia.
javae Tokunaga, 1951: 103. Indonesia.
javanicus Salm, 1917b: 139. Indonesia.
jefferyi Kitaoka, 1983: 96. Malaysia.
jianfenglingensis Liu, 1995: 9. China.
jimmiensis Tokunaga, 1959: 229. Papua New Guinea.
jouberti Huttel, Huttel and Verdier, 1953: 98. Gabon.
jonesi Wirth and Hubert, 1960a: 650. USA (Texas).
jucundus Statz, 1944: 147. Germany. Oligocene.
juddi Cochrane, 1973: 316. USA (New York).
jumineri Callot and Kremer, 1969b: 1112. Tunisia.
jurensis Callot, Kremer and Deduit, 1962: 160. France.
kadenensis McDonald, Bolinguit and Lu, 1973: 639. Japan.
kaifongensis Yu, 1982: 202. China.
kaimosiensis Khamala and Kettle, 1971: 58. Kenya.
kaluginae Remm, 1976b: 110. Russia. Upper Cretaceous.
kamrupi Sen and Das Gupta, 1958b: 163 (1959a: 617; 1959b: 65). New name for *albipennis*.
albipennis Smith and Swaminath, 1932: 184 (preoccupied by *Culicoides albipennis* Kieffer, 1919a). India.
kanagai Khamala and Kettle, 1971: 49. Kenya.
karagiensis Smatov and Aldabergenov, 1973: 24. Kazakhstan.
karajevi Dzhafarov, 1961c: 77. Azerbaijan.
karakumensis Gutsevich and Molotova, *in* Gutsevich, 1973: 180. Turkmenistan.
karenensis Glick, 1990: 162. Kenya.
kasimi Khalaf, 1961: 464. Iraq.
kelantanensis Wirth and Hubert, 1989: 346. Malaysia.

kelinensis Lee, 1979a: 99. China.
kepongensis Lee, 1988: 69 (as *kepongensis* Wirth and Hubert). China.
kepongensis Wirth and Hubert, 1989: 346 (preoccupied by *Culicoides kepongensis* Lee, 1988). Malaysia.
kerichoensis Khamala and Kettle, 1971: 37. Kenya.
kibatiensis Goetghebuer, 1935d: 172. Zaire.
volatilis Goetghebuer, 1935d: 176. Zaire.
kibunensis Tokunaga, 1937a: 298. Japan.
cubitalis Edwards, *in* Edwards et al., 1939: 40. Great Britain.
ponkikiri Kono and Takahasi, 1940: 74. Japan.
sitinohensis Okada, 1941: 18. Japan.
kinabaluensis Wirth and Hubert, 1989: 211. Indonesia.
kinari Howarth, 1985: 44. Laos.
kingi Austen, 1912: 104. Sudan.
nilotes Kieffer, 1925e: 257. Egypt.
kirbyi Glick and Mullen, 1983: 380. USA (Maryland).
kirgizicus Glukhova, 1973: 111. Kyrgyzstan.
kirinensis Lee, 1976: 47. China.
kisangkini Howarth, 1985: 47. Laos.
klossi Edwards, 1933c: 252. Malaysia.
knowltoni Beck, 1956: 136. USA (Florida).
kobae Cornet and Chateau, 1971: 148. Senegal.
kohistanensis Kitaoka and Shinonaga, 1989: 29. Pakistan.
kolymbiensis Boorman, 1988: 154. Greece.
komiensis McDonald, Bolinguit and Lu, 1973: 641. Japan.
komarovi Mirzaeva, 1985: 99. Russia.
konglinensis Yu and Kong, *in* Xue et al., 1992: 52. China.
koreensis Arnaud, 1956a: 109. South Korea.
palustris Amosova, 1957: 243. Russia.
korossoensis (Huttel and Huttel), 1952d: 472 (*Monohelea*). Mali.
kotonkan Boorman and Dipeolu, 1979: 35. Nigeria.
krameri Clastrier, 1959a: 194. Senegal, Ivory Coast and Mali.
ciliodentatus Khamala and Kettle, 1971: 28. Uganda.
kribiensis Kieffer, 1921b: 18. Cameroon.
krombeini Giles, Wirth and Messersmith, 1981: 542. Sri Lanka.
kugitangi Ataev, 1976: 79. Turkmenistan.
kumbaensis Callot, Kremer, Mouchet and Bach, 1965: 540. Cameroon.
kurensis Dzhafarov, *in* Gutsevich, 1960: 100. Azerbaijan.
kusaiensis Tokunaga, 1940a: 215. Micronesia.
kuscheli Wirth and Blanton, 1978: 236. Chile.
kyushuensis Wada, 1986: 146. Japan.
lacustris Ronderos, 1990a: 116. Argentina.
lahillei (Iches), 1906: 264 (*Ceratopogon*). Argentina.
debilipalpis Lutz, 1913: 60. Brazil.
khalafi Beck, 1957: 104. USA (Florida).
lahontan Wirth and Blanton, 1969b: 223. USA (California).
laimargus Zhou and Lee, 1984a: 221. China.
lamborni Ingram and Macfie, 1925: 283. Malawi.
landauae Kremer, Rebholtz-Hirtzel and Bailly-Choumara, 1975: 206. Morocco.
lanei Ortiz, 1950a: 431. Panama.
langeroni Kieffer, 1921i: 262. Tunisia.
judaeae Macfie, 1933c: 79. Israel.
lansangensis Howarth, 1985: 58. Laos.
lanyuensis Kitaoka and Tanaka, 1985: 39. Taiwan.
laoensis Howarth, 1985: 37. Laos.
laoshanensis Yu and Kang, *in* Yu, 1988: 138. China.
lasaensis Lee, 1978: 63 (1979a: 100). China.
latifrons Khamala and Kettle, 1971: 23. Uganda.
latifrontis Shakirzjanova, 1962: 256. Kazakhstan.
kobachidzei Dzhafarov, 1964: 348. Georgia.
latipennis Kieffer, 1919a: 37. Romania, Ukraine.
laurae Pierce, 1966: 91. USA (California). Miocene.
leanderensis Lee and Reye, 1963: 355. Australia (Queensland).
leechi Wirth, 1977: 53. USA (California).
leei Tokunaga, 1960b: 72. Papua New Guinea.
leizhouensis Lai and Yu, *in* Lai et al., 1990: 69. China.
lenae Glushchenko and Mirzaeva, 1970: 37. Russia.
lengi Yu and Liu, 1990: 10. China.
lenti Tavares and Luna Dias, 1980: 396. Brazil.

leoni Barbosa, 1952: 17 (1953: 19). Ecuador.
leopoldoi Ortiz, 1951c: 579. Venezuela.
leucostictus Kieffer, 1911c: 340. Seychelles.
praetermissus Carter, Ingram and Macfie, 1920: 240. Ghana.
egypti Macfie, 1924: 66 (as variety of *distinctipennis*). Egypt.
pharao Kieffer, 1925e: 259. Egypt.
lichyi Floch and Abonnenc, 1949: 1 (1950a: 69). Venezuela.
lieni Chen, 1979: 99. Taiwan.
liliputanus Statz, 1944: 142. Germany. Oligocene.
limai Barretto, 1944: 99. Brazil.
limonensis Ortiz and León, 1955: 576. Ecuador.
lingshuiensis Lee, 1975: 434. China.
lini Kitaoka and Tanaka, 1985: 46. Taiwan.
liui Wirth and Hubert, 1961: 20. Taiwan.
liukueiensis Kitaoka and Tanaka, 1985: 47. Taiwan.
lobatoi Felippe-Bauer, *in* Felippe-Bauer and Quintelas, 1994: 25. Brazil.
loisae Jamnback, 1965: 77. USA (New York).
longicercus Kitaoka, 1980: 19. Japan.
longicollis Glukhova, 1971: 507. Ukraine.
longidens Arnaud, 1956a: 111. Japan.
paucidentatus Kitaoka, 1973: 216. Japan.
longior Hagan and Reye, 1986: 340. Australia (Queensland).
longipalpis Delfinado, 1961: 645. Philippines.
longipennis Khalaf, 1957b: 348. Iraq.
flavisimilis Dzhafarov, 1964: 291. Azerbaijan.
longiporus Chu and Liu, 1978: 86. China.
longiradialis Tokunaga, 1962b: 499. Papua New Guinea.
longirostris Qu and Wang, 1994: 486. China.
longlinensis Yu, 1982: 202. China.
longzhouensis Hao and Yu, 1990: 40. China.
lopesi Barretto, 1944: 102. Brazil.
lophortygis Atchley and Wirth, 1975: 1422. USA (California).
loughnani Edwards, 1922: 165. Jamaica.
loxodontis Meiswinkel, 1992: 147. South Africa.
luglani Jones and Wirth, 1958: 89. USA (Texas).
lui Yu and Liu, 1990: 10. China.
lulianchengi Chen, 1983: 93 (1988: 152). China.
lutealaris Wirth and Blanton, 1956b: 225. Panama.
luteolus Wirth and Hubert, 1989: 100. Malaysia.
luteovenus Root and Hoffman, 1937: 156. Mexico.
lutzi Costa Lima, 1937a: 419. Brazil.
lyrinotatus Wirth and Blanton, 1955b: 126. Panama.
maai Wirth and Hubert, 1989: 312. Malaysia.
macclurei Wirth and Hubert, 1989: 348. Malaysia.
macfiei Causey, 1938: 411. Thailand.
macintoshi Cornet and Nevill, 1980: 383. South Africa.
macieli Tavares and Ruiz, 1980: 29. Brazil.
mackerrasi Lee and Reye, 1963: 355. Australia (Northern Territory).
macrostigma Wirth and Blanton, 1953b: 230. Panama.
maculipennis (Macfie), 1925: 349 (*Haemophoructus*). Singapore.
maculiscutellaris Tokunaga, 1959: 249. Indonesia.
madagascarensis de Meillon, 1961: 40. Madagascar.
magnificus Sen and Das Gupta, 1959a: 622. India.
magnipalpis Wirth and Blanton, 1953a: 76. Panama.
magnipictus Tokunaga, 1962b: 494. Papua New Guinea.
magnus Colaco, 1946: 219, 237 (as variety of *hirtius*). South Africa.
majorinus Chu, 1977: 99. China.
malariologiensis Perruolo Laneti, 1990: 28. Venezuela.
malayae Macfie, 1937d: 471. Malaysia.
malevillei Kremer and Coluzzi, 1971: 415. Italy.
mamaensis Lee, 1979a: 101. China.
manchuriensis Tokunaga, 1941b: 98. China.
setiger Goetghebuer, 1938: 379 (preoccupied by *Dasyhelea setigera* (Kieffer), 1910). Belgium.
goetghebueri Arnaud, 1956b: 94. Belgium. New name for *setiger*.
machardyi Campbell and Pelham-Clinton, 1960: 235. Great Britain.

ochraceimaculatus Shevchenko, 1970b: 8. Ukraine.
ochraceipennis Shevchenko, 1970b: 9. Ukraine.
mesostigma Remm, 1971: 201. Russia.
vistulensis Skierska, 1973: 289. Poland.
manhauensis Yu, 1982: 202. China.
manikumari Wirth and Hubert, 1989: 103. Malaysia.
marcleti Callot, Kremer and Basset, 1968: 271. Algeria.
marginalis Lee and Reye, 1963: 354. Australia (New South Wales).
marginatus Delfinado, 1961: 646. Philippines.
marginus Chu, 1984: 24. New name for *marginalis*.
marginalis Chu and Liu, 1978: 84 (preoccupied by *Culicoides marginalis* Lee and Reye, 1963). China.
margipictus Qu and Wang, 1994: 487. China.
marinkellei Wirth and Lee, 1967: 13. Colombia.
marinus Yu and Zhu, *in* Lai et al., 1990: 70. China.
maritimus Kieffer, 1924a: 16. Germany.
submaritimus Dzhafarov, 1962a: 206. Azerbaijan.
marksi Lee and Reye, 1953: 392. Australia (New South Wales).
marmoratus (Skuse), 1889: 304 (*Ceratopogon*). Australia (New South Wales).
marshi Wirth and Blanton, 1956b: 220. Panama.
martinezi Wirth and Blanton, 1970b: 43. Trinidad and Tobago.
maruim Lutz, 1913: 48. Brazil.
mathisi Giles and Wirth, 1983: 36. Sri Lanka.
matsuensis Lien, Weng and Lin, 1996: 20. Taiwan.
matsuzawai Tokunaga, 1950: 64. Japan.
mayeri Goetghebuer, 1935a: 3. Germany.
mcdonaldi Wirth and Hubert, 1989: 224. New name for *monticola*.
monticola McDonald and Lu, 1972: 413 (as subspecies of *pulicaris*). Taiwan.
mcdowelli Delfinado, 1961: 647. Philippines.
mcmillani Lee and Reye, 1953: 391. Australia (New South Wales).
megacanthus Palmer, 1957: 272. USA (California). Miocene.
meijerei Kieffer, 1919c: 192. New name for *guttipennis*.
guttipennis (de Meijere), 1906: 69 (*Ceratopogon*, preoccupied by *Culicoides guttipennis* (Coquillett), 1901a). Indonesia.
melanesiae Macfie, 1939b: 368. Papua New Guinea.
melleus (Coquillett), 1901a: 604 (*Ceratopogon*). USA (Florida).
mellipes Wirth and Hubert, 1989: 179. Malaysia.
menghaiensis Lee, 1980: 87. China.
menglaensis Chu and Liu, 1978: 88. China.
mesghalii Navai, 1973: 196. Iran.
metagonatus Wirth and Blanton, 1956b: 221. Panama.
micheli Cornet and Chateau, 1971: 164. Senegal.
micromaculatus Vimmer, 1932: 139. Israel.
midorensis Arnaud, 1956a: 113. Japan.
miharai Kinoshita, 1918: 156. Korea.
mihunensis Chu, 1983: 29. China.
mikros Dyce and Meiswinkel, 1995: 136. Papua New Guinea.
milnei Austen, 1909: 283. Kenya.
lugens Kieffer, 1918a: 51. South Africa.
rutshuruensis Goetghebuer, 1935d: 174. Zaire.
minasensis Felippe-Bauer, 1987: 147. Brazil.
minimus Wirth and Hubert, 1989: 251. Malaysia.
minipalpis Wirth and Hubert, 1989: 351. Malaysia.
minutissimus (Zetterstedt), 1855: 4860 (*Ceratopogon*). Sweden.
nanulus Kieffer, 1919a: 38. Hungary.
albihalter Kieffer, 1919a: 37 (1921f: 785). Germany.
bychowskyi Dzhafarov, 1964: 344. Azerbaijan.
tugaicus Dzhafarov, 1960a: 1183. Azerbaijan.
mioceneus Pierce, 1966: 93. USA (California). Miocene.
miombo Meiswinkel, 1991: 161. Malawi.
mirsae Ortiz, 1953a: 801. Venezuela.
mirzaevae Glukhova and Khabirov, 1977: 50 (as *mirzaevi*). Tajikistan.

mississippiensis Hoffman, 1926a: 158. USA (Mississippi).
mohave Wirth, 1952a: 187. USA (California).
mojingaensis Wirth and Blanton, 1953b: 232. Panama.
molestior Kieffer, 1911e: 514. New name for *molestus*.
molestus Kieffer, 1910: 192 (preoccupied by *Culicoides molestus* (Skuse), 1889). India.
iniquus Sen and Das Gupta, 1958b: 163 (1959a: 620; 1959b: 65). New name for *molestus*.
molestus (Skuse), 1889: 305 (*Ceratopogon*). Australia (New South Wales).
mollis Edwards, 1928: 55. Western Samoa.
mongolensis Yao, 1964: 287. China.
transcaspius Molotova, 1966: 654. Turkmenistan.
monoensis Wirth, 1952a: 193. USA (California).
monothecalis Tokunaga, 1962b: 509. Papua New Guinea.
montanus Shakirzjanova, 1962: 258. Kazakhstan.
monticola Wirth and Lee, 1967: 15. Colombia.
pichindensis Browne, 1980: 538. Colombia.
moreensis Lee and Reye, 1955: 239. Australia (New South Wales).
moreli Clastrier, 1959a: 189. Senegal and Ivory Coast.
morisitai Tokunaga, 1940d: 149. China.
mihensis Arnaud, 1956a: 115. Japan.
nagahanai Tokunaga, 1956: 119. Japan.
mortivallis Wirth and Blanton, 1971b: 465. USA (California).
motoensis Lee, 1979a: 102. China.
moucheti Cornet and Kremer, 1970: 266. Chad.
mulrennani Beck, 1957: 103. USA (Florida).
multidentatus Atchley and Wirth, 1975: 1421. USA (California).
multimaculatus Taylor, 1918: 169. Australia (Victoria).
multipunctatus Malloch, 1915a: 296. USA (Illinois).
murphyi Clastrier and Wirth, 1961b: 303. Nigeria.
murrayi Wirth and Hubert, 1989: 388. Indonesia.
murtalai Boorman and Dipeolu, 1979: 41. Nigeria.
musajevi Dzhafarov, 1961c: 75. Azerbaijan.
muscicola Kieffer, 1925d: 85. France.
mykytowyczi Lee and Reye, 1963: 359. Australia (New South Wales).
mystacinus Vimmer, 1932: 139. Israel.
nagarzensis Lee, 1978: 77 (1979a: 98). China.
nairobiensis Glick, 1990: 131. Kenya.
nampui Howarth, 1985: 28. Laos.
nanellus Wirth and Blanton, 1969a: 564. USA (California).
nankanensis Lien, Weng and Lin, 1996: 21. Taiwan.
nanpingensis Yu and Song, *in* Yu et al., 1986: 209. China.
nanus Root and Hoffman, 1937: 165. USA (Maryland).
narrabeenensis Lee and Reye, 1963: 357. Australia (New South Wales).
nasuensis Kitaoka, 1984: 303. Japan.
nattaiensis Lee and Reye, 1955: 237. Australia (New South Wales).
navaiae Lane, 1983: 534. Saudi Arabia.
neavei Austen, 1912: 102. Uganda.
neghmei Vargas, 1955: 673. Mexico.
neofagineus Wirth and Blanton, 1969b: 227. USA (Arizona).
neomelanesiae Tokunaga, 1963b: 123. Papua New Guinea.
neomontanus Wirth, 1976c: 15. New name for *montanus*.
montanus Wirth and Blanton, 1969b: 225 (preoccupied by *Culicoides montanus* Shakirzjanova, 1962). USA (Utah).
neopalpalis Tokunaga, 1962b: 483. Papua New Guinea.
neopalpifer Chen, 1983: 21. China.
neoparaensis Tavares and Souza, 1978: 621. Brazil.
neopulicaris Wirth, 1955: 355. USA (Texas).
neoschultzei Boorman and Meiswinkel, *in* Boorman, 1989: 192. Oman.
nevilli Cornet and Brunhes, 1994: 158. Senegal.
newsteadi Austen, 1921: 113. Israel.
biclavatus Kieffer, 1924a: 14. Germany.
halophilus Kieffer, 1924b: 404. Norway.
edwardsi Goetghebuer, 1933f: 46 (as va-

riety of *pulicaris*, preoccupied by *Culicoides edwardsi* Goetghebuer, 1921). Europe.

edwardsianus Goetghebuer, 1933d: 367 (as variety of *pulicaris*). Great Britain.

nibleyi Hubert and Wirth, 1961: 237. Japan.

nigeriae Ingram and Macfie, 1921: 325. Nigeria.

nigrigenus Wirth and Blanton, 1956b: 222. Panama.

nigripennis Carter, Ingram and Macfie, 1920: 253. Ghana.

nigripes Wirth and Hubert, 1989: 353. Thailand.

nigritus Fei and Lee, 1984b: 345. China.

nigroannulatus Goetghebuer, 1932b: 5. Indonesia.

nigrosignatus Kieffer, 1901a: 161. France.

nilogenus Kieffer, 1921b: 17. Sudan.

nilophilus Kieffer, 1921b: 20. Sudan.

niphanae Wirth and Hubert, 1989: 316. Thailand.

nipponensis Tokunaga, 1955: 4. Japan.

nitens Edwards, 1933c: 252. Malaysia.

nivosus de Meillon, 1937b: 341. South Africa.

nobrei Caeiro, 1961: 241. Angola.

nocivum (Harris), 1862: 602 (*Simulium*). Eastern North America.

noshaquensis Tokunaga, 1966b: 285. Afghanistan.

notatus Delfinado, 1961: 648. Philippines.

papuae Tokunaga, 1962b: 481. Papua New Guinea.

novaguineanus Tokunaga, 1959: 223. Indonesia.

novairelandi Tokunaga, 1962b: 512. Papua New Guinea.

novamexicanus Atchley, 1967: 1012. USA (New Mexico).

nubeculosus (Meigen), 1830: 263 (*Ceratopogon*). Europe.

puncticollis Goetghebuer, 1912: 205 (preoccupied by *Culicoides puncticollis* (Becker), 1903). Belgium.

punctaticollis Goetghebuer, 1920: 56. New name for *puncticollis*.

nudipalpis Delfinado, 1961: 655. Philippines.

nudipennis Kieffer, 1922g: 507. Algeria.

nujiangensis Liu, 1990: 59. China.

nukabirensis Wada, 1979: 204. Japan.

nunomemoguri Kitaoka, 1980: 18. Japan.

nuntius Cambournac, 1970a: 249. Portugal.

nyakini Howarth, 1985: 49. Laos.

nyungnoi Howarth, 1985: 24. Laos.

obesus Statz, 1944: 145. Germany. Oligocene.

obnoxius Fox, 1952: 365. Venezuela.

obscuratus Statz, 1944: 144. Germany. Oligocene.

obscurus Tokunaga and Murachi, 1959: 347. Belau (USA). **NEW STATUS.**

pungens de Meijere, 1909: 200 (preoccupied by *Culicoides pungens* (Kieffer), 1901a). Indonesia. **NEW SYNONYM.**

obsoletus (Meigen), 1818: 76 (*Ceratopogon*). Europe.

varius (Winnertz), 1852: 35 (*Ceratopogon*). Germany.

yezoensis (Matsumura), 1911: 60 (*Ceratopogon*). Russia.

obscuripes Santos Abreu, 1918: 297 (as variety of *varius*). Canary Islands (Spain).

lacteinervis Kieffer, 1919a: 47. Slovak Republic, Ukraine.

rivicola Kieffer, 1921a: 56. Germany.

clavatus Kieffer, 1921a: 56. Germany.

heterocerus Kieffer, 1921a: 57. Germany.

pegobius Kieffer, 1922c: 235. Germany.

kabyliensis Kieffer, 1922g: 505. Algeria.

concitus Kieffer, 1922e: 71. Germany.

intermedius Okada, 1941: 22 (as variety of *obsoletus*, preoccupied by *Dasyhelea intermedia* (Santos Abreu), 1918). Japan.

sintrensis Cambournac, 1956: 591. Portugal.

seimi Shevchenko, 1967: 173. Ukraine.

obuncus Borkent, 1995: 64. Canada (Manitoba). Upper Cretaceous.

occidentalis Wirth and Jones, 1957: 21 (as variety of *variipennis*). USA (California).

albertensis Wirth and Jones, 1957: 17 (as variety of *variipennis*). Canada (Alberta).

australis Wirth and Jones, 1957: 15 (as variety of *variipennis*). USA (Louisiana).

sonorensis Wirth and Jones, 1957: 18 (as variety of *variipennis*). USA (Arizona).

ochrothorax Carter, 1919: 298. Ghana.

octosignatus Kieffer, 1921b: 17. Zaire.

oculatus (Strobl), 1910: 262 (*Ceratopogon*). Austria.

ocumarensis Ortiz, 1950b: 455. Venezuela.
odai Boorman, 1989: 195. Oman.
odiatus Austen, 1921: 112. Israel.
niger Dzhafarov, 1960a: 1183 (as variety of *pallidicornis*, preoccupied by *Culicoides niger* Root and Hoffman, 1937). Azerbaijan.
indistinctus Khalaf, 1961: 461. Iraq.
lailae Khalaf, 1961: 458. Iraq,
kureksthaicus Dzhafarov, 1962a: 209. Azerbaijan.
conicus Remm, *in* Remm and Zhogolev, 1968: 839. Ukraine.
odiosus Kieffer, 1910: 192. India.
okazawai Wada, 1990: 60. Japan.
okinawensis Arnaud, 1956a: 118. Japan.
oklahomensis Khalaf, 1952b: 355 (as subspecies of *villosipennis*). USA (Oklahoma).
olyslageri Kremer and Nevill, 1972: 467. South Africa.
omogensis Arnaud, 1956a: 119. Japan.
onderstepoortensis Fiedler, 1951: 6. South Africa.
onoi Tokunaga, 1940d: 147. China.
opertus Liu and Yu, 1990: 15. China.
oregonensis Wirth and Rowley, 1971: 162. USA (Oregon).
orestes Wirth and Hubert, 1989: 222. Malaysia.
orientalis Macfie, 1932b: 490. Malaysia.
nayabazari Das Gupta, 1963: 35. India.
orjuelai Wirth and Lee, 1967: 6. Colombia.
ornatus Taylor, 1913: 73. Australia (Queensland).
ostroushkoae Glukhova, 1989: 220. Ukraine.
ousairani Khalaf, 1952b: 354. USA (Oklahoma).
ovalis Khamala and Kettle, 1971: 88. Kenya.
owyheensis Jones and Wirth, 1978: 57. USA (Idaho).
oxystoma Kieffer, 1910: 193. India.
kiefferi Patton, 1913: 336 (preoccupied by *Culicoides kiefferi* Goetghebuer, 1910). India.
mesopotamiensis Patton, 1920: 246. Iraq.
pattoni Kieffer, 1921e: 7. India. New name for *kiefferi*.
housei Causey, 1938: 407. Thailand.
punctigerus Tokunaga, 1951: 101. Indonesia.
alatus Das Gupta and Ghosh, 1956b: 162. India.
pabloi Browne, 1980: 541. Colombia.
pachymerus Lutz, 1914: 83. Brazil.
padusae Mirzaeva, 1989: 87 (1990: 90). Russia.
pakistanensis Kitaoka and Shinonaga, 1989: 30. Pakistan.
paksongi Howarth, 1985: 25. Laos.
palauensis Tokunaga, *in* Tokunaga and Murachi, 1959: 348. Belau (USA).
palawanensis Delfinado, 1961: 648. Philippines.
pallidicornis Kieffer, 1919a: 46. Hungary, Romania.
susae Kieffer, 1919a: 44. Italy.
dileucus Kieffer, 1921a: 55. France.
brunneiscutellatus Zilahi-Sebess, 1933: 151 (as variety of *pallidicornis*). Hungary.
bruneoscutellatus Zilahi-Sebess, 1934: 155 (as variety of *pallidicornis*). Bulgaria.
niger Root and Hoffman, 1937: 168. USA (Maryland).
pallidimaculosus Tokunaga, 1959: 219. Papua New Guinea.
pallidizonatus Tokunaga, 1963b: 135. Papua New Guinea.
pallidothorax, Lee and Reye, 1963: 362. Australia (Northern Territory).
pallidulus Yu, 1991: 52. New name for *obscuratus*.
obscuratus Ding and Yu, 1990: 54 (preoccupied by *Culicoides obscuratus* Statz, 1944). China.
pallidus Khalaf, 1957b: 338. Iraq.
stackelbergi Dzhafarov, 1962a: 210. Azerbaijan.
palmerae James, 1943: 151. USA (Colorado).
palpalis Macfie, 1948: 78. Mexico.
palpifer Das Gupta and Ghosh, 1956a: 122. India.
palpisimilis Wirth and Hubert, 1989: 390. Malaysia.
pamiricus Zhogolev, 1973: 185. Tajikistan.
pampaensis Spinelli and Wirth, 1984a: 182. Argentina.
pampangensis Delfinado, 1961: 650. Philippines.
pampoikilus Macfie, 1948: 79. Mexico.
dominicii Ortiz, 1951b: 7. Venezuela.

panamensis Barbosa, 1947: 22. Panama.
alambiculorum Macfie, 1948: 81. Mexico.
pancensis Browne, 1980: 537. Colombia.
pangkorensis Wirth and Hubert, 1989: 326. Malaysia.
papillatus Khamala and Kettle, 1971: 84. Kenya.
papilliger Borkent, in this work. New name for *papillatus*.
papillatus Kitaoka and Shinonaga, 1989: 26 (preoccupied by *Culicoides papillatus* Khamala and Kettle, 1971). Pakistan.
papuensis Tokunaga, 1962b: 513. Papua New Guinea.
parabarnetti Wirth and Hubert, 1989: 146. Malaysia.
parabubalus Wirth and Hubert, 1989: 224. Malaysia.
paradisionensis Boorman, 1988: 156. Greece.
paradoxus Yu and Liu, 1990: 2. China.
paraensis (Goeldi), 1905: 137 (*Haematomyidium*). Brazil.
undecimpunctatus Kieffer, 1917b: 307. Argentina.
paraflavescens Wirth and Hubert, 1959: 15. Sri Lanka.
paragarciai Dyce, 1996: 313. Papua New Guinea.
parahumeralis Wirth and Hubert, 1989: 110. Malaysia.
paraignacioi Spinelli, *in* Spinelli et al., 1993: 66. Colombia.
paraimpunctatus Borkent, 1995: 60. New name for *canadensis*.
canadensis Wirth and Blanton, 1969b: 211 (preoccupied by *Culicoides canadensis* (Boesel), 1937). USA (Minnesota).
paraliui Das Gupta, 1962a: 538. India.
paramalayae Wirth and Hubert, 1989: 226. Malaysia.
paramaruim Wirth and Blanton, 1973: 443. Brazil.
parapiliferus Wirth and Blanton, 1974b: 71. USA (New York).
parararipalpis Das Gupta, 1963: 41. India.
parascopus Wirth and Blanton, 1978: 238. Mexico.
parotti Kieffer, 1922g: 502. Algeria.
parvimaculatus Lee and Reye, 1953: 391. Australia (New South Wales).
parviscriptus Tokunaga, 1959: 213. Papua New Guinea.
parvulus Khamala and Kettle, 1971: 62. Kenya.
pastus Kitaoka, 1980: 11. Japan.
paucienfuscatus Barbosa, 1947: 23. Brazil.
paulipictus Tokunaga, 1977: 45. Papua New Guinea.
pechumani Cochrane, 1974: 133. USA (New York).
pecosensis Wirth, 1955: 358. USA (Texas).
pelius Liu and Yu, 1990: 23. China.
peliliouensis Tokunaga, *in* Tokunaga and Esaki, 1936: 55. Belau (USA).
ejercitoi Delfinado, 1961: 643. Philippines.
pellucidus Khamala and Kettle, 1971: 62. Tanzania.
pendleburyi Wirth and Hubert, 1989: 85. Malaysia.
pentamaculatus Smatov, *in* Smatov and Kravets, 1976: 283. Kazakhstan.
perakensis Kitaoka, 1983: 95. Malaysia.
peregrinus Kieffer, 1910: 191. India.
judicandus Bezzi, 1916: 8 (1917: 108). Philippines.
esmoneti Salm, 1917b: 136. Indonesia.
philippinensis Kieffer, 1921g: 564. Philippines.
assamensis Smith and Swaminath, 1932: 183 (as variety of *peregrinus*). India.
quadratus Tokunaga, 1951: 108. Indonesia.
lungchiensis Chen and Tsai, 1962: 397 (as subspecies of *peregrinus*). China.
megaforticeps Kitaoka, 1973: 212. Japan.
perettii Cornet and Chateau, 1971: 145. Senegal.
perornatus Delfinado, 1961: 651. Philippines.
multinotatae Tokunaga, 1962b: 475. Papua New Guinea.
petersi Tokunaga, 1962b: 490. Papua New Guinea.
phaeonotus Wirth and Blanton, 1959: 326. Panama.
phlebotomus (Williston), 1896: 281 (*Ceratopogon*). St. Vincent.
amazonius Macfie, 1935a: 52. Brazil.
photophilus Kieffer, 1911d: 5. Germany.
pictellum (Rondani), 1869: 190 (*Ceratopogon*). Italy.

pictilis Wirth and Hubert, 1989: 392. Malaysia.
pictimargo Tokunaga and Shogaki, 1953: 286. Japan.
pictipennis (Staeger), 1839: 594 (*Ceratopogon*). Denmark.
arcuatus (Winnertz), 1852: 39 (*Ceratopogon*). Germany.
guttularis Kieffer, 1919a: 45. Hungary.
maculatus Zilahi-Sebess, 1936a: 202 (as variety of *pictipennis*, preoccupied by *Culicoides maculatus* (Shiraki), 1913). Hungary.
subgrisescens Dzhafarov, 1964: 249. Azerbaijan.
achkamalicus Dzhafarov, 1964: 251. Azerbaijan.
luganicus Shevchenko, 1972: 75. Ukraine.
picturatus Kremer and Deduit, 1961: 701. France.
pifanoi Ortiz, 1951c: 588. Venezuela.
tricoloratus Wirth and Blanton, 1953b: 233. Panama.
pikongkoi Howarth, 1985: 51. Laos.
piliferus Root and Hoffman, 1937: 163. USA (Maryland).
pilosipennis Kieffer, 1925e: 257. Egypt.
pilosus Wirth and Blanton, 1959: 332. Panama.
pingtanensis Yu, 1982: 202. China.
platiradius Tokunaga, 1963b: 128. Papua New Guinea.
plaumanni Spinelli, *in* Spinelli et al., 1993: 69. Argentina.
poikilonotus Macfie, 1948: 82. Mexico.
cacozelus Macfie, 1948: 85. Mexico.
hertigi Wirth and Blanton, 1953b: 229. Panama.
polynesiae Wirth and Arnaud, 1969: 518. American Samoa (USA).
polypori Wirth and Blanton, 1968a: 212. Panama.
polystictus Kieffer, 1921c: 181. Paraguay.
pongsomiensis Chu, 1986: 254. Cambodia.
popayanensis Wirth and Lee, 1967: 10. Colombia.
poperinghensis Goetghebuer, 1953: 127. Belgium.
posoensis Wirth and Blanton, 1969a: 562. USA (California).
pretoriensis Kremer and Nevill, 1972: 464. South Africa.
prolixipalpis Wirth and Hubert, 1989: 426. Malaysia.
propinquus Macfie, 1948: 81. Mexico.
propriipennis Macfie, 1948: 84. Mexico.
prussicus Szadziewski, 1988: 48. Baltic region. Eocene–Lower Oligocene.
pseudocrescentis Tavares and Luna Dias, 1980: 397. Brazil.
pseudocordiger Wirth and Hubert, 1989: 447. Malaysia.
pseudodiabolicus Fox, 1946a: 256. Trinidad and Tobago.
pseudoheliophilus Callot and Kremer, 1961a: 682. France.
albihalteratus Goetghebuer, 1935b: 414 (as variety of *neglectus*, preoccupied by *Dasyhelea albohalterata* (Santos Abreu), 1918). Belgium.
pseudolangeroni Kremer, Chaker and Delécolle, 1981: 291. Tunisia.
pseudopallidipennis Clastrier, 1958b: 197. Senegal.
pseudopallidus Khalaf, 1961: 466. Iraq.
pseudopalpalis Wirth and Hubert, 1989: 394. Indonesia.
pseudosalinarius Chu, 1981: 309. China.
pseudostigmatus Tokunaga, 1959: 234. Indonesia.
pulchripennis Macfie, 1939c: 200. Brazil.
pulicaris (Linnaeus), 1758: 603 (*Culex*). Europe.
setosinervis Kieffer, 1913a: 8. Germany.
pullatus Kieffer, 1915a: 474. Germany.
stephensi Carter, 1916: 135. Egypt.
cinerellus Kieffer, 1919a: 40. Ukraine.
quinquepunctatus Goetghebuer, 1921: 177. Belgium.
flaviplumus Kieffer, 1924a: 19. Germany.
sawamotoi Kono and Takahasi, 1940: 75. Russia.
pumilus (Winnertz), 1852: 46 (*Ceratopogon*). Germany.
punctatus (Meigen), 1804: 29 (*Ceratopogon*). Europe.
punctatus Latreille, 1809: 252 (preoccupied by *Culicoides punctatus* (Meigen), 1804). France.
ocellaris Kieffer, 1921d: 276 (as variety of *pulicaris*). Latvia.
kasachstanicus Shakirzjanova, 1963: 63 (as subspecies of *pulicaris*). Kazakhstan.

remmi Damian-Georgescu, 1972: 16. Romania.

puncticollis (Becker), 1903: 75 (*Ceratopogon*). Egypt.

algecirensis (Strobl), 1900: 170 (*Ceratopogon*, as form of *pulicaris*). Spain. Name suppressed by ICZN Opinion 1643.

impressus Kieffer, 1918a: 47. Tunisia.

distigma Kieffer, 1922g: 502. Algeria.

donatieni Kieffer, 1922g: 504. Algeria.

sciniphes Kieffer, 1925e: 261. Egypt.

bipunctatus Vimmer, 1932: 133. Israel.

tripunctatus Vimmer, 1932: 137. Israel.

wenigi Vimmer, 1932: 138. Israel.

flavitarsis Vimmer, 1932: 137. Israel.

griseovittatus Vimmer, 1932: 133. Israel.

luteosignatus Vimmer, 1932: 140. Israel.

vavrai Vimmer, 1932: 140. Israel.

punctithorax Carter, Ingram and Macfie, 1920: 235. Ghana.

puracensis Wirth and Lee, 1967: 7. Colombia.

puripennis Austen, 1921: 109. Israel.

purus Lee and Reye, 1963: 352. Australia (New South Wales).

pusilloides Wirth and Blanton, 1955a: 104. Panama.

pusillus Lutz, 1913: 52. Brazil.

putianensis Lee, 1988: 96. China.

pycnostictus Ingram and Macfie, 1925: 284. Malawi.

alexis de Meillon, 1936: 147. South Africa.

meeserellus de Meillon, 1936: 151. South Africa.

hysipyles de Meillon, 1936: 156. South Africa.

pygmaeus Tokunaga, 1963b: 139. Indonesia.

qabdoensis Lee, 1979a: 103. China.

qianshanensis Fei, 1982: 105. China.

qianweiensis Yu, 1982: 202. China.

qingdaoensis Kong and Yu, 1990: 58. China.

qinghaiensis Fei and Lee, 1984a: 182. China.

qionghaiensis Yu and Liu, 1990: 4. China.

quadrisignatus Kieffer, 1921b: 16. Cameroon.

quadrivittatus Vimmer, 1932: 136. Israel.

quasiparaensis Clastrier, 1971: 286. French Guiana.

quatei Wirth and Hubert, 1989: 333. Malaysia.

quaterifasciatus Tokunaga, 1959: 240. Papua New Guinea.

qufuensis Xue and Yu, *in* Xue et al., 1992: 52. China.

quinquelineatus Goetghebuer, 1934d: 192. Zaire.

quinquemaculatus Vimmer, 1932: 132. Israel.

quqiaoensis Chen, *in* Lee, 1988: 99. China.

rabauli Macfie, 1939b: 367. Papua New Guinea.

angularis Lee and Reye, 1953: 384. Australia (New South Wales).

rachoui Tavares and Souza, 1978: 622. Brazil.

radiomaculatus Khamala and Kettle, 1971: 85. Kenya.

rageaui Vattier and Adam, 1966b: 727. Congo.

rangeli Ortiz and Mirza, 1952: 126. Venezuela.

donajii Vargas, 1954: 28. Mexico.

patulipalpis Wirth and Blanton, 1959: 421. Panama.

raposoensis Wirth and Barreto, 1978: 561. Colombia.

raripalpis Smith, 1929: 256 (1932: 181). India.

rariradialis Das Gupta, 1963: 34. India.

rarus Das Gupta, 1963: 40. India.

ravus de Meillon, 1936: 151. South Africa.

tokwensis de Meillon, 1942a: 97. Zimbabwe.

fuscicaudae Macfie, 1947b: 75. Sudan.

subravus Cornet and Chateau, 1971: 167. Senegal.

recifei Barbosa, 1947: 25. Brazil.

reconditus Campbell and Pelham-Clinton, 1960: 227. Great Britain.

riouxi Callot and Kremer, 1961a: 679. France.

recurvus Delfinado, 1961: 663. Philippines.

reevesi Wirth, 1952a: 193. USA (California).

remerki Boorman and Dipeolu, 1979: 51. Nigeria.

remotus Kieffer, 1918a: 54. Guinea.

reticulatus Lutz, 1913: 49. Brazil.

rhizophorensis Khamala and Kettle, 1971: 77. Kenya.

ribeiroi Lemblé, Messaddeq, Capela and Kremer, 1990: 267. Portugal.

riethi Kieffer, 1914a: 237. Germany.
cordatus Kieffer, 1921h: 114 (1921d: 275). Latvia.
crassiforceps Kieffer, 1924a: 15. Germany.
riggsi Khalaf, 1957a: 198 (as subspecies of *piliferus*). USA (Oklahoma).
ritzei Dzhafarov, 1964: 346. Georgia.
robini Cornet, 1970: 352. Senegal.
rochenus Cambournac, 1970a: 250. Portugal.
rodriguezi Ortiz, 1968: 67. Venezuela.
rostratus Wirth and Blanton, 1956b: 218. Panama.
rubzovi Dzhafarov, 1960a: 1181. Azerbaijan.
rugulithecus Wirth and Hubert, 1989: 113. Malaysia.
ruiliensis Lee, 1980: 86. China.
ruizi Forattini, 1954a: 189. Brazil.
rutilus Ingram and Macfie, 1921: 326 (as variety of *inornatipennis*). Ghana.
ryckmani Wirth and Hubert, 1960a: 656. USA (California).
saboyae Cornet, 1970: 355. Senegal.
sabroskyi Tokunaga, *in* Tokunaga and Murachi, 1959: 336. Belau (USA).
sacrilegus Xue and Yu, 1991: 53. China.
saevus Kieffer, 1922g: 506. Algeria.
drenskii Zilahi-Sebess, 1934: 154. Bulgaria.
puncticeps Goetghebuer, 1934a: 91. Austria.
micromaculithorax Khalaf, 1957b: 340. Iraq.
sahariensis Kieffer, 1923a: 678. Algeria.
baghdadensis Khalaf, 1957b: 341 (as subspecies of *similis*). Iraq.
coluzzii Callot, Kremer and Bailly-Choumara, 1970: 710. Tunisia.
sajanicus Mirzaeva, 1971: 35. Russia.
salihi Khalaf, 1952b: 351. USA (Oklahoma).
salinarius Kieffer, 1914a: 236. Germany.
halobius Kieffer, 1914a: 237. Germany.
meinerti Kieffer, 1915c: 284. Denmark.
punctatidorsum Kieffer, 1924a: 17. Germany.
saltaensis Spinelli and Wirth, 1984a: 183. Argentina.
saltonensis Wirth, 1952a: 173 (as subspecies of *cockerellii*). USA (California).
samoensis Wirth and Arnaud, 1969: 513. American Samoa (USA).
sanguisuga (Coquillett), 1901a: 604 (*Ceratopogon*). USA (Maryland).
saninensis Tokunaga, 1956: 116. Japan.
epactius Arnaud, 1956a: 102. Japan.
litus Arnaud, 1956a: 111. Japan.
santanderi Browne, 1980: 536. Colombia.
santonicus Callot, Kremer, Rault and Bach, 1966: 514. France.
sarawakensis Wirth and Hubert, 1959: 28. Malaysia.
sasai Kitaoka, 1975: 192. Japan.
saundersi Wirth and Blanton, 1969a: 557. USA (Washington).
scanloni Wirth and Hubert, 1962: 187. USA (Virginia).
schramae Giles, Wirth and Messersmith, 1981: 539. Sri Lanka.
roswelli Giles and Wirth, 1983: 38. Sri Lanka.
schultzei (Enderlein), 1908: 459 (*Ceratopogon*). Namibia.
irroratus Goetghebuer, 1948b: 12. Zaire.
scopus Root and Hoffman, 1937: 170. Mexico.
scoticus Downes and Kettle, 1952: 65. Great Britain.
segnis Campbell and Pelham-Clinton, 1960: 232. Great Britain.
sejfadinei Dzhafarov, 1958: 247. Azerbaijan.
flavidus Dzhafarov, 1959: 470. Azerbaijan.
selangorensis Wirth and Hubert, 1989: 355. Malaysia.
sellersi Boorman and Dipeolu, 1979: 55. Nigeria.
semicircum Tokunaga, 1959: 208. Indonesia.
semimaculatus Clastrier, 1958a: 55. Algeria.
sensillatus Mirzaeva, 1971: 33. Russia.
kuraiensis Remm, 1972: 82. Russia.
septemmaculatus Goetghebuer, 1935d: 175. Zaire.
sergenti Kieffer, 1921h: 113. Algeria.
citrinellus Kieffer, 1923a: 674. Algeria.
mosulensis Khalaf, 1957b: 339. Iraq.
turkmenicus Gutsevich, 1959: 678. Turkmenistan.
shahgudiani Navai, 1973: 201. Iran.
shaklawensis Khalaf, 1957b: 345. Iraq.
caspius Gutsevich, 1959: 676. Russia.
shamaensis Yu and Deng, *in* Zhang et al., 1990: 31. China.
shermani Causey, 1938: 404. Thailand.

shimoniensis Khamala and Kettle, 1971: 54. Kenya.
shortti Smith and Swaminath, 1932: 183. India.
fortis Sen and Das Gupta, 1959a: 622. India.
siamensis Wirth and Hubert, 1989: 359. Thailand.
sibiricus Mirzaeva, 1964: 218. Russia.
sierrensis Wirth and Blanton, 1969b: 232. USA (California).
sigmoidus Lee and Reye, 1963: 359. Australia (Capital Territory).
signatus Kieffer, 1921b: 19. Sudan.
sikkimensis Das Gupta, 1963: 35. India.
silvestrii Kieffer, 1918a: 50. Cameroon.
similis Carter, Ingram and Macfie, 1920: 255. Ghana.
simulans Vimmer, 1932: 136. Israel.
simulator Edwards, *in* Edwards et al., 1939: 40. Great Britain.
sinanoensis Tokunaga, 1937a: 331. Japan.
obsoletiformis Amosova, 1957: 233. Russia.
sitiens Wirth and Hubert, 1960a: 652. USA (California).
slovacus Orszagh, 1969: 1. Slovak Republic.
smeei Tokunaga, 1960b: 73. Papua New Guinea.
snowi Wirth and Jones, 1956: 163. USA (Virginia).
sogdianus Gutsevich, 1966: 673. Uzbekistan.
sommermanae Wirth and Blanton, 1969b: 234. USA (Alaska).
sordidellus (Zetterstedt), 1838: 820 (*Ceratopogon*). Greenland (Denmark).
sousadiasi Caeiro, 1961: 309. Angola.
speciosus (Meunier), 1904a: 229 (1904b: 240) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
sphagnumensis Williams, 1955: 269. USA (Michigan).
lacicola Arnaud, 1956a: 110 (as *laciocola*). Japan.
carjalaensis Glukhova, 1957: 249. Russia.
sphenostylus Remm, 1976b: 112. Russia. Upper Cretaceous.
spiculae Howarth, 1985: 53. Laos.
spinapenis Yu and Hao, *in* Hao et al., 1990: 41. China.
spinosus Root and Hoffman, 1937: 172. USA (Maryland).
spinoverbosus Qu and Wang, 1994: 488. China.
spinulosus Khamala and Kettle, 1971: 87. Uganda.
spurius Wirth and Blanton, 1959: 433. Panama.
stagetus Lee, 1979b: 33. China.
stanicicus Shevchenko, 1970a: 84. Ukraine.
stellaris Yu and Liu, 1990: 6. China.
stellifer (Coquillett), 1901a: 604 (*Ceratopogon*). USA (District of Columbia).
stepicola Remm, *in* Remm and Zhogolev, 1968: 838. Ukraine.
markevitshi Shevchenko, 1969: 47. Ukraine.
aquilinus Smatov and Kravets, 1976: 284. Kazakhstan.
stercorarius Khamala and Kettle, 1971: 60. Uganda.
stigma (Meigen), 1818: 73 (*Ceratopogon*). Europe.
kiefferi Goetghebuer, 1910: 96. Belgium.
cordiformitarsis Carter, 1916: 134. Egypt.
unimaculatus Goetghebuer, 1920: 57. New name for *kiefferi*.
stigmoides Callot, Kremer and Deduit, 1962: 166. France.
stigmalis Wirth, 1952d: 245. Guatemala.
stigmaticus Kieffer, 1911d: 4. Germany.
stilobezzioides Foote and Pratt, 1954: 33. USA (New York).
stonei James, 1943: 149. USA (Colorado).
weesei Khalaf, 1952a: 65 (1952b: 351). USA (Oklahoma).
stupulosus Yu and Zhang, *in* Deng et al., 1990: 35. China.
suarezi Rodriguez and Wirth, 1986: 313. Colombia.
subarakawae Yu and Zou, *in* Hao et al., 1990: 41. China.
subcircumscriptus Yu, 1982: 202. China.
subdubius Tokunaga, 1962c: 53. Japan.
subfasciipennis Kieffer, 1919a: 44. Hungary.
analis Kieffer, 1925d: 81 (as variety of *subfasciipennis*, preoccupied by *Culicoides analis* Santos Abreu, 1918). Belgium.
subgedanensis Szadziewski, 1993: 608. Germany. Miocene.
subimmaculatus Lee and Reye, 1953: 375. Australia (New South Wales).

sublatifrontis Smatov and Isimbekov, 1971: 61. Kazakhstan.
sublettei Atchley, 1967: 997. USA (New Mexico).
submagnesianus Tokunaga, 1962b: 484. Papua New Guinea.
subneglectus Vimmer, 1932: 139. Israel.
subpalpifer Lee, 1988: 104 (as *subpalpifer* Wirth and Hubert). China.
subpalpifer Wirth and Hubert, 1989: 115 (preoccupied by *Culicoides subpalpifer* Lee, 1988). Malaysia.
subpunctatus Liu and Yu, 1996: 137. China.
subschultzei Cornet and Brunhes, 1994: 158. South Africa.
subsylvarum Remm, 1981: 32. Russia.
succineus Remm, 1976b: 113. Russia. Upper Cretaceous.
succivarius Szadziewski, 1988: 40. Poland. Eocene–Lower Oligocene.
sumatrae Macfie, 1934c: 190 (1934d: 215). Malaysia.
amamiensis Tokunaga, 1937a: 325. Japan.
kagiensis Tokunaga, 1937a: 327. Taiwan.
ohmorii Takahashi, 1958: 113 (as subspecies of *amamiensis*). Japan.
assimilis Delfinado, 1961: 660. Philippines.
superfluthecus Yu and Li, *in* Yu et al., 1986: 210. China.
suspectus Zhou and Lee, 1984b: 294. China.
suzukii Kitaoka, 1973: 212. Japan.
sylvicola Khamala and Kettle, 1971: 36. Kenya.
tadzhikistanicus Zhogolev, 1969: 114. Tajikistan.
tainanus Kieffer, 1916b: 114. Taiwan. **NEW STATUS.**
maculatus (Shiraki), 1913: 294 (*Ceratopogon*, preoccupied by *Atrichopogon maculatus* (Lundström), 1910). Taiwan. **NEW SYNONYM.**
kii Tokunaga, 1937a: 284. Japan.
sigaensis Tokunaga, 1937a: 322. Japan.
kyotoensis Tokunaga, 1937a: 329. Japan.
suborientalis Tokunaga, 1951: 106. Indonesia.
taiwanensis Kitaoka and Tanaka, 1985: 44. Taiwan.
talgariensis Gutsevich and Smatov, 1966: 74. Kazakhstan.
tamada Howarth, 1985: 39. Laos.
tamboensis Wirth and Lee, 1967: 20. Colombia.
tarapaca Spinelli and Wirth, 1984a: 184. Chile.
tatebeae Kitaoka, 1991: 291. Japan.
tauffliebi Clastrier, 1960a: 96. Congo.
tauricus Gutsevich, 1959: 677. Ukraine.
tavaresi Felippe-Bauer and Wirth, 1988: 261. Brazil.
tawauensis Wirth and Hubert, 1989: 161. Malaysia.
taylori (Boorman and Lane), 1979: 327 (*Neoculicoides*). Nigeria.
tayulingensis Chen, 1983: 77 (1988: 153). China.
tbilisicus Dzhafarov, 1964: 309. Azerbaijan, Georgia.
tentorius Austen, 1921: 110. Israel.
tenuifasciatus Wirth and Hubert, 1989: 243. Malaysia.
tenuilobus Wirth and Blanton, 1959: 354. Panama.
tenuipalpis Wirth and Hubert, 1959: 16. Taiwan.
tenuipennis Statz, 1944: 147. Germany. Oligocene.
tenuistylus Wirth, 1952a: 178. USA (California).
teretipalpis Wirth and Barreto, 1978: 557. Colombia.
tessellatus Yu, 1982: 202. China.
testudinalis Wirth and Hubert, 1962: 191. USA (Pennsylvania).
tetrathyris Wirth and Blanton, 1959: 409. Panama.
thurmanae Wirth and Hubert, 1989: 360. Thailand.
tianmushaensis Chu, 1981: 310. China.
tibetensis Chu, 1977: 102. China.
tidwelli Spinelli, *in* Spinelli et al., 1993: 74. Colombia.
tienhsiangensis Chen, 1983: 78 (1988: 153). China.
tissoti Wirth and Blanton, 1966: 279. USA (Florida).
tobaensis Tokunaga, 1937a: 317. Japan.
todatangae Wirth and Blanton, 1973: 447. Brazil.
tohokuensis Okada, 1941: 16. Japan.
tokunagai Arnaud, 1956a: 132. Japan.
tonmai Howarth, 1985: 30. Laos.
tororoensis Khamala and Kettle, 1971: 48. Uganda.

torreyae Wirth and Blanton, 1971c: 73. USA (Florida).
torridus Wirth and Hubert, 1960a: 654. Mexico.
toshiokai Kitaoka, 1975: 194. Japan.
towadaensis Okada, 1941: 25. Japan.
toyamaruae Arnaud, 1956a: 133. Japan.
transferrans Ortiz, 1953a: 801. Venezuela.
translucens Khamala and Kettle, 1971: 83. Tanzania.
trapidoi Wirth and Barreto, 1978: 554. Colombia.
travassosi Forattini, 1957: 198. Brazil.
travisi Vargas, 1949: 233. New name for *simulans*.
simulans Root and Hoffman, 1937: 167 (preoccupied by *Culicoides simulans* Vimmer, 1932). USA (Maryland).
horneae Foote and Pratt, 1954: 25. USA (New York).
triallantionis Howarth, 1985: 42. Laos.
triangulatus Shevchenko, 1970b: 11. Ukraine.
trifasciellus Goetghebuer, 1935d: 175. Zaire.
trilineatus Fox, 1946a: 250. Virgin Islands (USA).
trimaculatus McDonald and Lu, 1972: 415. Taiwan.
trimaculipennis Wirth and Hubert, 1989: 245. Malaysia.
trinidadensis Hoffman, 1925: 286. Trinidad and Tobago.
oliveri Fox and Hoffman, 1944: 108. Haiti.
wokei Barbosa, 1947: 28 (preoccupied by *Culicoides wokei* Fox, 1947). Panama.
diminutus Barbosa, 1951: 163. New name for *wokei*.
tripallidus Tokunaga, 1959: 220. Papua New Guinea.
trisignatus Kieffer, 1921b: 21. Cameroon.
tristanii Huttel, Huttel and Verdier, 1953: 100. Gabon.
tristriatulus Hoffman, 1925: 294 (as variety of *cockerellii*). USA (California).
tritenuifasciatus Tokunaga, 1959: 242. Papua New Guinea.
trivittatus Vimmer, 1932: 136. Israel.
trizonatus Tokunaga, 1963b: 134. Papua New Guinea.
tropicalis Kieffer, 1913e: 10. Kenya.
babrius de Meillon, 1943: 112. Zimbabwe.
trouilleti Itoua and Cornet, 1986: 239. Congo.
truncorum Edwards, *in* Edwards et al., 1939: 41. Great Britain.
sylvarum Callot and Kremer, 1961b: 389. France.
tsutaensis Wada, 1990: 65. Japan.
tunkinensis Mirzaeva, 1985: 97. Russia.
turanicus Gutsevich and Smatov, *in* Smatov and Isimbekov, 1971: 61. New name for *kasachstanicus*.
kasachstanicus Gutsevich and Smatov, 1966: 70 (preoccupied by *Culicoides kasachstanicus* Shakirzjanova, 1963). Kazakhstan.
turgeopalpulus Liu and Yu, 1990: 23. China.
turgidus Sen and Das Gupta, 1959a: 626. India.
tyrrelli (Boesel), 1937: 48 (*Dasyhelea*). Canada (Manitoba). Upper Cretaceous.
uncistylus Wirth and Hubert, 1989: 449. Philippines.
unicolor (Coquillett), 1905: 65 (*Ceratopogon*). USA (California).
unicus Delfinado, 1961: 665. Philippines.
uniradialis Wirth and Blanton, 1953a: 70. Panama.
univittatus Vimmer, 1932: 139. Israel
agathensis Callot, Kremer and Rioux, 1963: 121. France.
ukrainensis Shevchenko, 1970b: 14. Ukraine.
uruguayensis Ronderos, 1990a: 117. Uruguay.
usingeri Wirth, 1952a: 192. USA (California).
ustinovi Shevchenko, 1962: 673. Ukraine.
utahensis Fox, 1946b: 246. USA (Utah).
utowana Jamnback, 1965: 109. USA (New York).
variifrons Glukhova and Ivanov, *in* Ivanov and Glukhova, 1967: 810. Russia.
variipennis (Coquillett), 1901a: 602 (*Ceratopogon*). USA (Virginia).
venezuelensis Ortiz and Mirsa, 1950: 137. Venezuela.
pictipennis (Philippi), 1865: 628 (*Psychophaena*, preoccupied by *Culicoides pictipennis* (Staeger), 1839). Chile.
ortizi Fox, 1952: 366. Venezuela.
ventralis Borkent, in this work. New name for *abdominalis*.

abdominalis Statz, 1944: 145 (preoccupied by *Dasyhelea abdominalis* (Santos Abreu), 1918). Germany. Oligocene.
venustus Hoffman, 1925: 290. USA (Maryland).
verbosus Tokunaga, 1937a: 303. Taiwan.
verecundus Macfie, 1948: 76. Mexico.
contubernalis Ortiz and León, 1955: 574 (as variety of *rozeboomi*). Ecuador.
vernoni Wirth and Blanton, 1973: 448. Brazil.
vespertinus Yu and Ma, *in* Ma et al., 1990: 48. China.
vexans (Staeger), 1839: 593 (*Ceratopogon*). Denmark.
pungens (Kieffer), 1901a: 163 (*Palpomyia*). France.
perpungens Kieffer, 1919a: 33. New name for *pungens*.
ajbassovi Shakirzjanova, 1962: 254. Kazakhstan.
vicinus Clastrier, 1960a: 104. New name for *intermedius*.
intermedius Clastrier, 1959a: 173 (preoccupied by *Dasyhelea intermedia* (Santos Abreu), 1918). Senegal.
victoriae Macfie, 1941: 67. Australia (Victoria).
magnimaculatus Lee and Reye, 1953: 388. Australia (New South Wales).
vidourlensis Callot, Kremer, Molet and Bach, 1968: 99. France.
villosipennis Root and Hoffman, 1937: 165. USA (Maryland).
vitreipennis Austen, 1921: 108. Israel.
vitshumbiensis Goetghebuer, 1935d: 176. Zaire.
africanus Clastrier, 1959a: 186. Senegal.
volcanensis Wirth and Blanton, 1959: 389. Panama.
vomensis Boorman and Dipeolu, 1979: 61. Nigeria.
wadai Kitaoka, 1980: 14. Japan.
wakuensis McDonald, Bolinguit and Lu, 1973: 647. Japan.
chaetocellaris Kitaoka, 1973: 214. Japan.
walkeri Boorman, 1979: 69. Kenya.
wallacei Wirth and Blanton, 1973: 449. Brazil.
wansoni Goetghebuer, 1935c: 477. Zaire.
obscuripennis Clastrier and Wirth, 1961b: 318. Gambia.
wardi Boorman, 1989: 209. United Arab Emirates.
waringi Lee and Reye, 1955: 240. Australia (West Australia).
wenzeli Delfinado, 1961: 649. Philippines.
werneri Wirth and Blanton, 1971b: 463. USA (Arizona).
willistoni Wirth and Blanton, 1953c: 116. Panama.
williwilli Lee and Reye, 1955: 234. Australia (New South Wales).
wirthi Foote and Pratt, 1954: 36. USA (Montana).
wirthomyia Vargas, 1953b: 227. Mexico.
wisconsinensis Jones, 1956: 32. USA (Wisconsin).
wokei Fox, 1947: 90. Panama.
aethionotus Wirth and Blanton, 1955b: 121. Panama.
wuyiensis Chen, 1981: 93. China.
xanifer Wirth and Blanton, 1968a: 210. Panama.
xanthoceras Kieffer, 1917a: 186. Papua New Guinea.
xanthogaster Kieffer, 1918a: 53. Guinea.
xinghaiensis Yu, 1982: 202. China.
xinjiangensis Chu, Qian and Ma, 1982: 107. China.
xinpingensis Qu and Liu, 1982: 101. China.
xuguitensis Cao and Chen, 1984: 298. China.
yadongensis Chu, 1984: 24. New name for *spinulosus*.
spinulosus Chu, 1977: 100 (preoccupied by *Culicoides spinulosus* Khamala and Kettle, 1971). China.
yaeyamaensis Kitaoka, 1975: 196. Japan.
yankari Boorman and Dipeolu, 1979: 62. Nigeria.
yaracuyensis Ortiz, 1959: 364. Venezuela.
yasumatsui Tokunaga, 1941a: 113. Micronesia.
lingensis Tokunaga, 1963b: 129. Papua New Guinea.
yemenensis Boorman, 1989: 211. Yemen.
yichunensis Yu, 1982: 202. China.
yoshimurai Tokunaga, 1941a: 114. Micronesia.
youngi Wirth and Barreto, 1978: 562. Colombia.
yukonensis Hoffman, 1925: 291. Canada (Yukon Territory).
yunanensis Chu and Liu, 1978: 81. China.

zhangmensis Deng and Yu, *in* Deng et al., 1990: 35. China.
zhiyingi Yu and Liu, 1990: 8. China.
zhogolevi Remm, *in* Remm and Zhogolev, 1968: 836. Ukraine.
zhongningensis Yu, 1982: 201 (1981: 31). China.
zhuhaiensis Yu and Hao, *in* Yu, 1988: 138. China.
zikaensis Khamala and Kettle, 1971: 56. Uganda.
zuluensis de Meillon, 1936: 145. South Africa.
acastus de Meillon, 1947: 118. South Africa.
zyzzamaculatus Yu, 1982: 202. China.

Genus PARADASYHELEA Macfie

PARADASYHELEA Macfie, 1940f: 17. Type species: *Dasyhelea brevipalpis* Ingram and Macfie, by original designation.

albipunctata Wirth and Lee, 1959: 116. Australia (New South Wales).
boucheti Clastrier, 1989b: 134. New Caledonia (France).
brevipalpis (Ingram and Macfie), 1931a: 178 (*Dasyhelea*). Argentina.
egregria (Macfie), 1932c: 36 (*Dasyhelea*). New Zealand.
harrisoni Wirth, 1981: 384. New Zealand.
minuta Wirth and Lee, 1959: 118. Australia (New South Wales).
neocaledoniensis Clastrier, 1989b: 135. New Caledonia (France).
olympiae Wirth and Blanton, 1969c: 98. USA (Washington).
reyei Elson-Harris and Kettle, 1985: 233. Australia (Queensland).

Genus WASHINGTONHELEA Wirth and Grogan

WASHINGTONHELEA Wirth and Grogan, 1988: 97. Type species: *Washingtonhelea frommeri* Wirth and Grogan, by original designation.

frommeri Wirth and Grogan, 1988: 98. USA (California).
taimyrica Szadziewski, 1996: 71. Russia. Upper Cretaceous.

TRIBE CERATOPOGONINI

Genus ADELOHELEA Borkent

ADELOHELEA Borkent, 1995: 45. Type species: *Adelohelea glabra* Borkent, by original designation.

glabra Borkent, 1995: 46. Canada (Manitoba). Upper Cretaceous.

Genus AFROHELEA Wirth

AFROHELEA Wirth, 1965b: 230. Type species: *Parabezzia capensis* de Meillon and Hardy), by original designation.

capensis (de Meillon and Hardy), 1954: 67 (*Parabezzia*). South Africa.

Genus ALLOHELEA Kieffer

ALLOHELEA Kieffer, 1917b: 364. Type species: *Sphaeromias pulchripennis* Kieffer, by original designation.

afra Clastrier and Delécolle, 1990: 130. Guinea.
africana (Clastrier), 1960b: 282 (*Monohelea*). Congo.
ampligonata (Ratanaworabhan and Wirth), 1972: 468 (*Monohelea*). Malaysia.
arboricola Clastrier and Delécolle, 1990: 138. Guinea.
arcuata (Ratanaworabhan and Wirth), 1972: 469 (*Monohelea*). Malaysia.
basiflava (Tokunaga), 1963a: 248 (*Monohelea*). Papua New Guinea.
basilobata (Ratanaworabhan and Wirth), 1972: 463 (*Monohelea*). Malaysia.
bellula (Macfie), 1934c: 282 (*Monohelea*). Malaysia.
bottimeri Wirth, 1991a: 502. USA (Texas).
brinchangensis (Ratanaworabhan and Wirth), 1972: 452 (*Monohelea*). Malaysia.
camptostyla (Ratanaworabhan and Wirth), 1972: 461 (*Monohelea*). Malaysia.
capitata (Ratanaworabhan and Wirth), 1972: 459 (*Monohelea*). Malaysia.
chelagonata (Ratanaworabhan and Wirth), 1972: 454 (*Monohelea*). Malaysia.
digitata (Ratanaworabhan and Wirth), 1972: 466 (*Monohelea*). Malaysia.
distortifemur Wirth, 1991a: 499. USA (Florida).

guineensis Clastrier and Delécolle, 1990: 135. Guinea.
harpagonifera (Debenham), 1972: 9 (*Monohelea*). Australia (Capital Territory).
inflativena (Tokunaga), 1962a: 214 (*Monohelea*). Japan.
insularis (Tokunaga), 1941a: 114 (*Monohelea*). Micronesia.
japonica (Udaka), 1959: 20 (*Monohelea*). Japan.
johannseni (Wirth), 1953b: 153 (*Monohelea*). USA (Virginia).
kindiae Clastrier and Delécolle, 1990: 140. Guinea.
limosa Clastrier and Delécolle, 1990: 143. Guinea.
litoraurea (Ingram and Macfie), 1921: 344 (*Monohelea*). Ghana.
makonde (de Meillon and Wirth), 1983a: 363 (*Monohelea*). South Africa.
maureenae (de Meillon and Wirth), 1987a: 53 (*Monohelea*). South Africa.
messeri (de Meillon), 1939a: 16 (*Monohelea*). South Africa.
mimas (de Meillon), 1939a: 13 (*Monohelea*). South Africa.
nebulosa (Coquillett), 1901a: 606 (*Ceratopogon*). USA (New Jersey).
neotropica Wirth, 1991a: 503. Jamaica.
nigripes (Ratanaworabhan and Wirth), 1972: 460 (*Monohelea*). Thailand.
pallifemorata (Remm), 1980: 91 (*Monohelea*). Tajikistan.
papuae (Tokunaga), 1963a: 245 (*Monohelea*). Papua New Guinea.
parafurcata (Ratanaworabhan and Wirth), 1972: 458 (*Monohelea*). Malaysia.
paucimaculata Clastrier and Delécolle, 1990: 136. Guinea.
pedicellata Wirth, 1991a: 502. USA (Florida).
pulchripennis (Kieffer), 1911c: 344 (*Sphaeromias*). Seychelles.
quatei (Ratanaworabhan and Wirth), 1972: 457 (*Monohelea*). Malaysia.
solidipedalis (Tokunaga), 1963a: 247 (*Monohelea*). Papua New Guinea.
superlobata (Ratanaworabhan and Wirth), 1972: 462 (*Monohelea*). Thailand.
sylvatica (Clastrier), 1960b: 284 (*Monohelea*). Congo.
tenuilobata (Ratanaworabhan and Wirth), 1972: 455 (*Monohelea*). Thailand.
tessellata (Zetterstedt), 1850: 3642 (*Ceratopogon*). Sweden.
illustris (Winnertz), 1852: 53 (*Ceratopogon*). Germany and Great Britain.
tokunagai (Remm), 1993: 185 (*Monohelea*). Russia. **NEW COMBINATION.**
tricuspis (Debenham), 1972: 10 (*Monohelea*). Australia (New South Wales).
weemsi Wirth, 1991a: 501. USA (Florida).
yorkensis (Debenham), 1972: 27 (*Monohelea*). Australia (Queensland).
zherihhini (Remm), 1993: 185 (*Monohelea*). Russia. **NEW COMBINATION.**

Genus ALLUAUDOMYIA Kieffer

ALLUAUDOMYIA Kieffer, 1913e: 12. Type species: *Alluaudomyia imparunguis* Kieffer, by monotypy.
NEOCERATOPOGON Malloch, 1915b: 310. Type species: *Ceratopogon bellus* Coquillett, by original designation.
PRIONOGNATHUS Carter, Ingram and Macfie, 1921a: 309 (preoccupied by *Prionognathus* LaFerté-Sénectère, 1851). Type species: *Prionognathus marmoratus* Carter, Ingram and Macfie, by original designation.
THYSANOGNATHUS Ingram and Macfie, 1922: 244. New name for *Prionognathus* Carter, Ingram and Macfie. Type species: *Prionognathus marmoratus* Carter, Ingram and Macfie, automatic.
ISOECACTA Garrett, 1925: 9. Type species: *Isoecacta poeyi* Garrett (= *Ceratopogon bellus* Coquillett), by original designation.

abonnenci Clastrier, 1958b: 233. Senegal.
abdominalis Wirth and Delfinado, 1964: 606. Malaysia.
adunca Wirth and Delfinado, 1964: 609. Thailand.
albigena Wirth and Delfinado, 1964: 618. Thailand.
albopicta (Ingram and Macfie), 1922: 244 (*Thysanognathus*). Ghana.
alpina Debenham, 1971: 146. Australia (New South Wales).
altalocei Delécolle and Rieb, 1989: 127. France.
amazonica Spinelli and Wirth, 1984c: 676. Brazil.

angulata Wirth and Delfinado, 1964: 611. Malaysia.
annulata Wirth and Delfinado, 1964: 637. Malaysia.
annulipes Wirth and Delfinado, 1964: 637. Thailand.
australiensis Debenham, 1971: 133 (valid subspecies of *annulipes*). Australia (Queensland).
anserina de Meillon and Wirth, 1983a: 354. South Africa.
appendiculata Debenham, 1971: 151. Australia (New South Wales).
astera Tokunaga, 1963a: 222. Papua New Guinea.
aterivena Tokunaga, 1940d: 154. Japan.
bella (Coquillett), 1902a: 87 (*Ceratopogon*). USA (Washington, D.C.).
poeyi (Garrett), 1925: 9 (*Isoecata*). Canada (British Columbia).
bertrandi Harant and Cellier, 1949: 10. France.
bicornis Debenham, 1971: 159. Australia (Northern Territory).
biestroi Spinelli, 1988: 130. Argentina.
bifasciata Tokunaga, 1963a: 220. Papua New Guinea.
bifurcata Wirth and Delfinado, 1964: 633. Malaysia.
bimaculata Clastrier and Wirth, 1961a: 228. Nigeria.
bipunctata Tokunaga and Murachi, 1959: 356. Belau (USA).
boucheti Clastrier, 1985c: 194. New Caledonia (France).
brandti Tokunaga, 1963a: 223. Papua New Guinea.
brevicosta Clastrier, 1960b: 261. Congo.
brevis Wirth and Delfinado, 1964: 608. Malaysia.
caribbeana Spinelli and Wirth, 1984c: 678. Belize.
catarinensis Spinelli and Wirth, 1984c: 681. Brazil.
claudia de Meillon, 1942a: 92. Zimbabwe.
cobra de Meillon and Wirth, 1987a: 41. South Africa.
congolensis de Meillon, 1939b: 12. Zaire.
conjuncta Kieffer, 1918a: 52. Guinea.
dekeyseri Clastrier, 1958c: 487. Senegal.
delfinadoae Giles and Wirth, 1984: 211. Malaysia.
demeilloni Clastrier and Wirth, 1961a: 223. Nigeria.
distispinulosa Spinelli and Wirth, 1984c: 682. Brazil.
epsteini Giles and Wirth, 1987: 459. New Caledonia (France).
estevezae Spinelli and Wirth, 1984c: 684. Mexico.
exigua Clastrier, 1985c: 193. New Caledonia (France).
falcata de Meillon and Wirth, 1983a: 356. South Africa.
falcata Knoz and Ratajsky, 1987: 566 (preoccupied by *Alluaudomyia falcata* de Meillon and Wirth, 1983a). Czech Republic. To be renamed by Boorman (in press).
fimbriatinervis Clastrier, 1958b: 230. Senegal.
fittkaui Spinelli and Wirth, 1984c: 686. Brazil.
flexistyla Chaudhuri and Ghosh, 1980: 422. India.
footei Wirth, 1952c: 428. USA (Florida).
formosana Okada, 1942: 317 (as variety of *maculipennis*). Taiwan.
fragilicornis Clastrier, 1958c: 489. Senegal.
fragmentum Debenham, 1971: 163. Australia (Northern Territory).
fumosipennis Debenham, 1971: 135. Australia (Northern Territory).
fuscipennis Wirth and Delfinado, 1964: 612. Thailand.
fuscipes Wirth and Delfinado, 1964: 606. Malaysia.
fuscitarsis Chaudhuri, Das Gupta and Chatterjee, 1981: 147. India.
gloriosa Kieffer, 1925a: 422. Austria.
griffithi Wirth and Delfinado, 1964: 635. Thailand.
guarani Spinelli, 1988: 131. Uruguay.
halterata Remm, 1993: 187. Russia.
hirsutipennis Clastrier, 1960b: 267. Congo.
huberti Wirth and Delfinado, 1964: 622. Malaysia.
hygropetrica Vaillant, 1954: 228. France.
immaculata Tokunaga, 1963a: 219. Indonesia.
imparunguis Kieffer, 1913e: 12. Kenya.
inaequalis Wirth and Delfinado, 1964: 613. Thailand.
infuscata Wirth and Delfinado, 1964: 621. Malaysia.

inexspectata Clastrier, 1983c: 10. Seychelles.
insignis Chaudhuri, Das Gupta and Chaudhuri, 1972: 94. India.
insulana Tokunaga and Murachi, 1959: 358. Micronesia.
insulicola Tokunaga and Murachi, 1959: 361. Micronesia.
jimmensis Tokunaga, 1963a: 229. Papua New Guinea.
lacetella Remm, 1980: 97. Kyrgyzstan.
latipennis (Skuse), 1889: 308 (*Ceratopogon*). Australia (New South Wales).
leei Spinelli and Wirth, 1984c: 687. Colombia.
limosa Clastrier, 1961: 432. France.
ljatifeidae Remm, 1967: 27 (as *latifeidae*). Azerbaijan.
longzhouensis Hao and Yu, 1991: 45. China.
louisi de Meillon and Wirth, 1981b: 535. South Africa.
lunata de Meillon and Wirth, 1983a: 356. South Africa.
macclurei Wirth and Delfinado, 1964: 622. Malaysia.
maculipennis (Carter, Ingram and Macfie), 1921a: 316 (*Prionognathus*). Ghana.
maculithorax (Carter, Ingram and Macfie), 1921a: 319 (*Prionognathus*). Ghana.
maculosa de Meillon, 1936: 172. South Africa.
maculosipennis Tokunaga, 1940e: 181 (1940d: 154). Micronesia.
maculosissima Wirth and Delfinado, 1964: 624. Indonesia.
magoebai de Meillon, Meiswinkel and Wirth, 1982: 134. South Africa.
magna Wirth and Delfinado, 1964: 632. Thailand.
marginalis Wirth and Delfinado, 1964: 625. Malaysia.
marmorata (Carter, Ingram and Macfie), 1921a: 312 (*Prionognathus*). Ghana.
marmorea Clastrier, 1960b: 258. Congo.
mcmillani Clastrier and Wirth, 1961a: 236. Nigeria.
megaparamera Williams, 1957: 327. USA (Michigan).
meeseri (de Meillon and Hardy), 1954: 74 (*Ceratopogon*). Zimbabwe.
melanesiae Clastrier, 1985c: 190. New Caledonia (France).
melanosticta (Ingram and Macfie), 1922: 248 (*Thysanognathus*). Ghana.
meridiana Clastrier, 1978: 25. France.
monopunctata Tokunaga and Murachi, 1959: 354. Micronesia.
monosticta (Ingram and Macfie), 1923: 60 (*Thysanognathus*). Tanzania.
mouensis Giles and Wirth, 1987: 463. New Caledonia (France).
mynistensis Remm, 1979b: 55. Estonia.
natalensis de Meillon, 1939b: 14. South Africa.
needhami Thomsen, 1935: 287. USA (New York).
neocaledoniensis Clastrier, 1985c: 188. New Caledonia (France).
nilogenes (Kieffer), 1925e: 262 (*Thysanognathus*). Egypt.
novaguineae Tokunaga, 1963a: 227. Papua New Guinea.
nubeculosa Spinelli and Wirth, 1984c: 689. Brazil.
ocellata Remm, 1980: 99. Tajikistan.
onoi Tokunaga, 1972: 15. Japan.
ornatithorax Chaudhuri, Das Gupta and Chaudhuri, 1972: 89. India.
pacifica Clastrier, 1985c: 195. New Caledonia (France).
papuae Tokunaga, 1963a: 217. Papua New Guinea.
parafurcata Wirth and Delfinado, 1964: 640. Malaysia.
paraspina Wirth, 1952c: 429. USA (Georgia).
parva Wirth, 1952c: 431. USA (Florida).
downesi Wirth, 1952c: 433. USA (Virginia).
peculiaris Chaudhuri, Das Gupta and Chaudhuri, 1972: 100. India.
pentaspila Remm and Glukhova, 1971: 304. Russia.
personata Debenham, 1971: 133. Australia (Queensland).
petersi Tokunaga, 1963a: 228. Papua New Guinea.
platipyga Tokunaga, 1963a: 221. Papua New Guinea.
plaumanni Spinelli and Wirth, 1984c: 691. Brazil.
polyommata Macfie, 1947b: 76. Sudan.
poguei Giles and Wirth, 1987: 461. New Caledonia (France).
prima Clastrier, 1976: 205. French Guiana.

pseudomaculipennis (Carter, Ingram and Macfie), 1921a: 318 (*Prionognathus*). Ghana.
pseudomaculithorax Clastrier, 1958b: 225. Senegal.
pseudomarginalis Wirth and Delfinado, 1964: 628. Philippines.
punctiradialis Chaudhuri, Das Gupta and Chaudhuri, 1972: 97. India.
punctivenosa Wirth and Grogan, 1988: 20. New name for *punctiradialis*.
punctiradialis Spinelli and Wirth, 1984c: 692 (preoccupied by *Alluaudomyia punctiradialis* Chaudhuri, Das Gupta and Chaudhuri, 1972). Brazil.
punctulata Wirth and Delfinado, 1964: 639. Malaysia.
quadripunctata (Goetghebuer), 1934c: 288 (*Culicoides*). Russia.
quadrispina Tokunaga, 1972: 17. Japan.
quasivudu Stam, 1964: 195. Congo.
quinquenebulosa Wirth and Delfinado, 1964: 619. Malaysia.
quinquepunctata Tokunaga, 1940b: 256. Japan.
remmi Szadziewski, 1983b: 395. Algeria.
reyei Debenham, 1971: 157. Australia (Northern Territory).
riparia Clastrier, 1978: 29. France.
rudolfi de Meillon and Downes, 1986: 171. South Africa.
sagaensis Tokunaga, 1940b: 257. Japan.
schnacki Spinelli, 1983b: 403. Argentina.
senta de Meillon, 1936: 175. South Africa.
sexpunctata Spinelli and Wirth, 1984c: 695. Colombia.
shogakii Tokunaga, 1960a: 74. Japan.
siebenschwabi Havelka, 1982: 59. Spain.
similiforceps Clastrier, 1960b: 265. Congo.
smeei Tokunaga, 1963a: 230. Papua New Guinea.
sophiae Stam, 1964: 193. Congo.
sordidipennis Clastrier and Wirth, 1961a: 233. Gambia.
soutini de Meillon and Wirth, 1983a: 359. South Africa.
spinellii Wirth and Grogan, 1988: 21. New name for *tripunctata*.
tripunctata Spinelli and Wirth, 1984c: 697 (preoccupied by *Alluaudomyia tripunctata* Chaudhuri, Das Gupta and Chaudhuri, 1972). Colombia.
spinosiforceps Clastrier, 1977: 345. Guinea.
spinosipes Tokunaga, 1962a: 206. Japan.
splendida (Winnertz), 1852: 47 (*Ceratopogon*). Europe.
sternalis Wirth and Delfinado, 1964: 617. Thailand.
stictipennis Wirth, 1952a: 197. USA (California).
streptomera Remm, 1980: 99. Turkmenistan.
striata Remm, 1993: 187. Russia.
subadunca Chaudhuri, Das Gupta and Chaudhuri, 1972: 95. India.
subannulata Wirth and Delfinado, 1964: 636. Malaysia.
succinea Szadziewski, 1988: 112. Poland. Eocene–Lower Oligocene.
tauffliebi Clastrier, 1960b: 263. Congo.
tenuiannulata Spinelli and Wirth, 1984c: 696. Guatemala.
tenuistylata Tokunaga, 1959: 296. Indonesia.
thurmanorum Wirth and Delfinado, 1964: 629. Thailand.
tiberghieni Neveu, 1978: 355. France.
depuncta Remm, 1980: 101. Tajikistan.
tillierorum Clastrier, 1985c: 191. New Caledonia (France).
tokunagai Wirth and Delfinado, 1964: 633. New name for *splendida*.
splendida Tokunaga, 1963a: 216 (preoccupied by *Alluaudomyia splendida* (Winnertz), 1852). Papua New Guinea.
transvaalensis de Meillon, 1947: 119. South Africa.
tripartita Okada, 1942: 316 (as variety of *sagaensis*). Taiwan.
tripunctata Chaudhuri, Das Gupta and Chaudhuri, 1972: 91. India.
typica Chaudhuri, Das Gupta and Chaudhuri, 1972: 91. India.
undecimpunctata Tokunaga, 1940b: 257. Japan.
unguistyla Debenham, 1971: 139. Australia (New South Wales).
varia Debenham, 1971: 154. Australia (Queensland).
variegata Glick and Mullen, 1982: 540. USA (Alabama).
vecina Clastrier, 1960b: 260. Congo.
verecunda Debenham, 1971: 143. Papua New Guinea.
vicina Clastrier, 1960b: 260. Congo.

vudu de Meillon and Hardy, 1954: 65. Cameroon.
wansoni de Meillon, 1939b: 10. Zaire.
wirthi Williams, 1957: 328. USA (Michigan).
xanthocoma (Kieffer), 1913d: 182 (*Culicoides*). India.
youngi Spinelli and Wirth, 1984c: 699. Colombia.

Genus ANKYLOHELEA de Meillon and Wirth

ANKYLOHELEA de Meillon and Wirth, 1987b: 384. Type species: *Ankylohelea montana* de Meillon and Wirth, by original designation.

montana de Meillon and Wirth, 1987b: 384. South Africa.

Genus AUSTROHELEA Wirth and Grogan

AUSTROHELEA Wirth and Grogan, 1988: 22. Type species: *Monohelea shannoni* Wirth and Blanton, by original designation.

antipodalis (Ingram and Macfie), 1931b: 205 (*Monohelea*). New Zealand.
brevipes (Lee), 1948c: 355 (*Monohelea*). Australia (West Australia).
campbellensis (Tokunaga), 1964: 289 (*Monohelea*). New Zealand.
ferruginea (Macfie), 1932c: 49 (*Monohelea*). New Zealand.
shannoni (Wirth and Blanton), 1972b: 175 (*Monohelea*). Argentina.
tasmaniensis (Lee), 1948c: 354 (*Monohelea*). Australia (Tasmania).
tonnoiri (Macfie), 1932c: 46 (*Monohelea*). New Zealand.

Genus BAEODASYMYIA Clastrier and Raccurt

BAEODASYMYIA Clastrier and Raccurt, 1979b: 100. Type species: *Baeodasymyia modesta* Clastrier and Raccurt, by original designation.

dominicana Szadziewski and Grogan, 1994: 220. Dominican Republic. Eocene–Miocene.
modesta Clastrier and Raccurt, 1979b: 100. Haiti.

Genus BAEOHELEA Wirth and Blanton

BAEOHELEA Wirth and Blanton, 1970c: 95. Type species: *Baeohelea nana* Wirth and Blanton, by original designation.

nana Wirth and Blanton, 1970c: 95. Dominica.

Genus BAHIAHELEA Wirth

BAHIAHELEA Wirth, 1992: 276. Type species: *Bahiahelea brasiliensis* Wirth, by original designation.

brasiliensis Wirth, 1992: 280. Brazil.

Genus BOREOHELEA Clastrier and Delécolle

BOREOHELEA Clastrier and Delécolle, 1990: 146. Type species: *Boreohelea afrotropica* Clastrier and Delécolle, by original designation.

afrotropica Clastrier and Delécolle, 1990: 146. Guinea.

Genus BORKENTHELEA Spinelli and Grogan

BORKENTHELEA Spinelli and Grogan, 1993: 321. Type species: *Borkenthelea nothofagus* Spinelli and Grogan, by original designation.

nothofagus Spinelli and Grogan, 1993: 323. Argentina.

Genus BOTHAHELEA Grogan and Wirth

BOTHAHELEA Grogan and Wirth, 1983: 199. Type species: *Bothahelea phelpsi* Grogan and Wirth, by original designation.

gigantostyla Grogan and Wirth, 1983: 203. Zimbabwe.
nama de Meillon and Wirth, 1987a: 42. South Africa.
phelpsi Grogan and Wirth, 1983: 200. Zimbabwe.

Genus BOTHAMIA Meiswinkel

BOTHAMIA Meiswinkel, 1987: 300. Type species: *Bothamia demeilloni* Meiswinkel, by original designation.

demeilloni Meiswinkel, 1987: 300. South Africa.

Genus BRACHYCRETACEA Szadziewski

BRACHYCRETACEA Szadziewski, 1996: 63. Type species: *Brachycretacea taimyrica* (Remm), by original designation.

taimyrica (Remm), 1976b: 115 (*Baeohelea*). Russia. Upper Cretaceous.

Genus BRACHYPOGON Kieffer

BRACHYPOGON Kieffer, 1899: 69. Type species: *Ceratopogon vitiosus* Winnertz, by original designation.

Subgenus BRACHYPOGON Kieffer

balticus Szadziewski, 1988: 93. Baltic region. Eocene–Lower Oligocene.
beaufortanensis Delécolle and Rieb, 1992: 33. France.
bergensis (de Meillon and Hardy), 1953: 26 (*Ceratopogon*). South Africa.
bonaerensis Spinelli, 1990: 744. Argentina.
boormani Grogan and de Meillon, 1993: 400. Senegal.
brazzai (Vattier and Adam), 1966b: 736 (*Ceratopogon*). Congo.
calchaqui Spinelli, 1990: 746. Argentina.
calloti Grogan and de Meillon, 1993: 403. Senegal.
canadensis Downes, 1976: 1147. Canada (Quebec).
corius (de Meillon and Hardy), 1954: 69 (*Ceratopogon*). South Africa.
emphuxi (Vattier and Adam), 1966b: 734 (*Ceratopogon*). Congo.
corneti Grogan and de Meillon, 1993: 392. Senegal.
debenhamae Grogan and de Meillon, 1993: 405. Senegal.
defectivus (Strobl), 1906: 400 (*Ceratopogon*). Spain.
delecollei Grogan and de Meillon, 1993: 404. Senegal.
demeilloni Grogan and Wirth, 1993: 30. Zimbabwe.
emeiensis Wen and Yu, *in* Wen et al., 1991: 30. China.
eocenicus Szadziewski, 1988: 91. Denmark. Eocene–Lower Oligocene.
fuscivenosus (Lutz), 1914: 94 (*Palpomyia*). Brazil.
gedanicus Szadziewski, 1988: 95. Poland. Eocene–Lower Oligocene.
grobleri de Meillon and Wirth, 1981c: 575. South Africa.
hamiltoni de Meillon and Wirth, 1981c: 576. South Africa.
havelkai Grogan and de Meillon, 1993: 402. Central African Republic.
impar (Johannsen), 1938: 223 (*Ceratopogon*). Puerto Rico (USA).
infarctipes Delécolle and Grogan, 1990: 133. Senegal.
insulicola (Tokunaga), 1959: 350 (*Ceratopogon*). Micronesia.
kokocinskii Szadziewski, 1983b: 393. Algeria.
kremeri Szadziewski and Havelka, 1984: 353. North Korea.
krugeri de Meillon and Wirth, 1981c: 578. South Africa.
krzeminskii Szadziewski and Havelka, 1984: 344. North Korea.
latifemoris Clastrier, 1989c: 190. Guinea.
libanius (de Meillon), 1943: 104 (*Ceratopogon*). South Africa.
miocaenicus Szadziewski, 1993: 610. Germany. Miocene.
mireillae (Vattier and Adam), 1966b: 733 (*Ceratopogon*). Congo.
neotericus Yu and Zhang, *in* Wen et al., 1991: 32. China.
nieves (Havelka), 1976b: 91 (*Ceratopogon*). Germany.
novaguineae (Tokunaga), 1964: 294 (*Ceratopogon*). Papua New Guinea.
pakistanicus Szadziewski and Havelka, 1984: 346. Pakistan.
paraensis Wirth and Blanton, 1970c: 99 (as *parasensis*). Brazil.
petersi (Tokunaga), 1964: 293 (*Ceratopogon*). Papua New Guinea.
phymos Delécolle and Grogan, 1990: 129. Senegal.
riebi Grogan and de Meillon, 1993: 397. Senegal.

ringueleti Spinelli, 1990: 748. Argentina.
senegalensis (de Meillon and Wirth), 1955: 275 (*Ceratopogon*). Senegal.
sitius (de Meillon), 1959a: 345 (*Ceratopogon*). South Africa.
spinosipes Clastrier, 1989c: 194. Guinea.
spinosissimus Clastrier, 1989c: 195. Guinea.
szadziewskii Grogan and de Meillon, 1993: 400. Senegal.
tokunagai Grogan and Wirth, 1981c: 96. Solomon Islands.
vitiosus (Winnertz), 1852: 49 (*Ceratopogon*). Germany.
minimus (Kieffer), 1924b: 402 (*Anakempia*). France.
niger (Mayer), 1934a: 291 (*Trishelea*). Poland.

Subgenus ISOHELEA Kieffer

ISOHELEA Kieffer, 1917b: 295. Type species: *Ceratopogon lacteipennis* Zetterstedt (misidentified, = *Psilohelea sociabilis* Goetghebuer), by original designation.
NILOHELEA Kieffer, 1921b: 22. Type species: *Nilohelea albipennis* Kieffer, by monotypy.
TRISHELEA Kieffer, 1925b: 153. Type species: *Trishelea incompleta* Kieffer, by original designation.

abdominalis (Tokunaga), 1940b: 259 (*Ceratopogon*). Japan.
aethiopica (Clastrier, Rioux and Descous), 1961: 87 (*Ceratopogon*). Chad.
africanus de Meillon, 1929: 248. South Africa.
albipennis (Kieffer), 1921b: 22 (*Nilohelea*). Sudan.
alpinus (Clastrier), 1961: 413 (*Ceratopogon*). Austria.
aquilonalis (Clastrier), 1961: 421 (*Ceratopogon*). Finland.
babiogorenis Szadziewski, *in* Szadziewski et al., 1994: 5. Poland.
basiflagellatus (Tokunaga), 1940b: 263 (*Ceratopogon*). Japan.
beskidicus Krzywinski, *in* Szadziewski et al., 1994: 7. Poland.
bialoviesicus Krzywinski, *in* Szadziewski et al., 1994: 9. Poland.
bilobatus (Remm), 1993: 189 (*Ceratopogon*). Kazakhstan. **NEW COMBINATION.**
borealis (Kieffer), 1919b: 41 (1919a: 68) (*Psilohelea*). Norway.
carpaticus Szadziewski, *in* Szadziewski et al., 1994: 12. Poland.
caucasicus (Remm), 1967: 28 (*Ceratopogon*). Georgia.
clastrieri Szadziewski, 1983b: 386. Algeria.
clavatus (Clastrier), 1966: 706 (*Ceratopogon*). Canary Islands (Spain).
darvazi (Remm), 1974c: 55 (*Ceratopogon*). Tajikistan.
falcifer (Tokunaga), 1940b: 261 (*Ceratopogon*). Russia.
ferganicus (Remm), 1974c: 56 (*Ceratopogon*). Kyrgyzstan.
flaviventris (Kieffer), 1919a: 66 (*Psilohelea*). Croatia.
croaticus (Remm), 1981: 32 (*Ceratopogon*). New name for *flaviventris*.
glukhovae Grogan and de Meillon, 1993: 406. Senegal.
griseipennis (Storå), 1945: 34 (*Isohelea*). Azores (Portugal).
hamoni (Vattier and Adam), 1966b: 730 (*Ceratopogon*). Congo.
henningseni Szadziewski, 1988: 89. Denmark. Eocene–Lower Oligocene.
herati Navai, 1997: 184. Afghanistan.
hudjakovi (Remm), 1974c: 53 (*Ceratopogon*). Russia.
hugoi Spinelli and Grogan, 1994: 2. Colombia.
hyperboreus (Clastrier), 1961: 415 (*Ceratopogon*). Norway.
incompletus (Kieffer), 1925b: 153 (*Trishelea*). Poland.
thienemanni (Mayer), 1940: 162 (*Helea*). Sweden.
lapiae (Clastrier), 1961: 416 (*Ceratopogon*). Finland.
jaroslavi Szadziewski, 1983b: 388. Algeria.
laricis (Remm), 1974c: 51 (*Ceratopogon*). Russia.
longipalpis (Kieffer), 1925a: 412 (*Trishelea*). Russia.
lunatus Borkent, in this work. New name for *arcuatus*.
arcuatus (Remm), 1993: 189 (*Ceratopogon*, preoccupied by *Culicoides arcuatus* (Winnertz), 1852). Russia. **NEW COMBINATION.**

magnipalpis (Clastrier), 1961: 409 (*Ceratopogon*). France.
mapuche Spinelli, 1990: 750. Argentina.
misionensis Spinelli, 1990: 752. Argentina.
montanus (Tokunaga), 1940d: 152 (*Ceratopogon*). Japan.
monticola (Tokunaga), 1940b: 262 (*Ceratopogon*). Japan.
montivagus Yu and Wen, *in* Wen et al., 1991: 35. China.
nipponensis Wirth and Grogan, 1988: 32. New name for *albitarsis*.
albitarsis (Tokunaga), 1940b: 261 (*Ceratopogon*, preoccupied by *Schizohelea albitarsis* (Wiedemann), 1817). Japan.
nitidulus (Edwards), 1921: 125 (*Psilohelea*). Great Britain.
crassiforceps (Kieffer), 1925a: 411 (*Trishelea*). Russia.
turfaceus (Kieffer), 1925a: 415 (*Anakempia*). Russia.
finniae (Clastrier), 1961: 417 (*Ceratopogon*). Finland.
oreinus (Remm), 1974c: 55 (*Ceratopogon*). Kyrgyzstan.
pallidipennis Spinelli and Grogan, 1994: 6. Honduras.
pasquieri (Clastrier), 1961: 402 (*Ceratopogon*). Algeria.
pelecatus (Remm), 1974c: 54 (*Ceratopogon*). Kyrgyzstan.
perpusillus (Edwards), 1921: 125 (*Psilohelea*). Great Britain.
polonicus Szadziewski, 1988: 88. Poland. Eocene–Lower Oligocene.
prominulus (Meunier), 1904a: 228 (1904b: 239) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
pruinosus (Wirth), 1955a: 201 (*Helea*). USA (California).
remmi Wirth and Grogan, 1988: 32. New name for *falcatus*.
falcatus (Remm), 1974c: 54 (*Ceratopogon*, preoccupied by *Stilobezzia falcata* (Meunier), 1904a). Russia.
sahariensis (Clastrier), 1961: 422 (*Ceratopogon*). Algeria.
saxatilis (Clastrier), 1961: 411 (*Ceratopogon*). Algeria.
serratus (Lewis), 1956: 46 (*Helea*). USA (Connecticut).
sevanicus (Remm), 1974c: 50 (*Ceratopogon*). Armenia.
silecis Szadziewski, 1990b: 485. Poland.
sociabilis (Goetghebuer), 1920: 68 (*Psilohelea*). Belgium.
sentiger Borkent, in this work. New name for *spiniger*.
spiniger (Remm), 1974c: 53 (*Ceratopogon*, preoccupied by *Serromyia spinigera* (Loew), 1850). Kyrgyzstan.
stigmalis (Coquillett), 1902a: 86 (*Ceratopogon*). USA (New Mexico).
surae Szadziewski, 1984a: 555. Algeria.
susunai (Remm), 1974c: 51 (*Ceratopogon*). Russia.
sylvaticus Yu and Liu, *in* Wen et al., 1991: 35. China.
taivoi (Remm), 1974c: 50 (*Ceratopogon*). Kyrgyzstan.
tiiveli (Remm), 1980: 103 (*Ceratopogon*). Tajikistan.
turkestanicus (Remm), 1974c: 56 (*Ceratopogon*). Kyrgyzstan.
ussuriensis (Glukhova), 1979: 169 (*Isohelea*). Russia.
vaillanti (Mayer), 1955: 111 (*Helea*). Algeria.
ajjerensis (Clastrier), 1961: 408 (*Ceratopogon*). Algeria.
wirthi Spinelli, 1990: 753. Argentina.
wirthorum Grogan and de Meillon, 1997: 130. Zimbabwe.
yariensis (Tokunaga), 1940d: 151 (*Ceratopogon*). Japan.
zavoicus Szadziewski, *in* Szadziewski et al., 1994: 29. Poland.

Subgenus SARISSOHELEA Debenham

SARISSOHELEA Debenham, 1991: 798 (as subgenus of *Brachypogon*). Type species: *Brachypogon kraussi* Grogan and Wirth, by original designation.

alexandros Debenham, 1991: 800. Papua New Guinea.
kraussi Grogan and Wirth, 1981c: 93. Solomon Islands.
maai (Tokunaga), 1964: 298 (*Ceratopogon*). Indonesia.
papuensis (Tokunaga), 1964: 296 (*Ceratopogon*). Papua New Guinea.
peregrinator (Edwards), 1928: 56 (*Ceratopogon*). Western Samoa.

Species of **BRACHYPOGON** unplaced to subgenus

rufigastris (Santos Abreu), 1918: 321 (*Ceratolophus*). Canary Islands (Spain).
singularis (Santos Abreu), 1918: 317 (*Ceratolophus*). Canary Islands (Spain).

Genus CACAOHELEA Wirth and Grogan

CACAOHELEA Wirth and Grogan, 1988: 33. Type species: *Cacaohelea youngi* Wirth and Grogan, by original designation.

youngi Wirth and Grogan, 1988: 34. Costa Rica.

Genus CALCARHELEA Wirth and Grogan

CALCARHELEA Wirth and Grogan, 1988: 35. Type species: *Alluaudomyia bimater* de Meillon and Hardy, by original designation.

bimater (de Meillon and Hardy), 1953: 25 (*Alluaudomyia*). South Africa.

Genus CAMPTOPTEROHELEA Wirth and Hubert

CAMPTOPTEROHELEA Wirth and Hubert, 1960b: 89. Type species: *Camptopterohelea hoogstraali* Wirth and Hubert, by original designation.

admirabilis Das Gupta and Sarkar, 1982: 73. India.
distincta Das Gupta and Sarkar, 1982: 70. India.
hoogstraali Wirth and Hubert, 1960b: 90. Philippines.
javanensis Wirth and Wada, 1979: 347. Indonesia.
tokunagai Wirth and Wada, 1979: 349. Malaysia.

Genus CAPEHELEA de Meillon and Wirth

CAPEHELEA de Meillon and Wirth, 1987b: 387. Type species: *Capehelea steli* de Meillon and Wirth, by original designation.

steli de Meillon and Wirth, 1987b: 388. South Africa.

Genus CERATOCULICOIDES Wirth and Ratanaworabhan

CERATOCULICOIDES Wirth and Ratanaworabhan, 1971a: 170. Type species: *Helea longipennis* Wirth, by original designation.

blantoni Wirth and Ratanaworabhan, 1971a: 174. USA (Maryland).
danicus Szadziewski, 1988: 102. Denmark. Eocene–Lower Oligocene.
havelkai Wirth and Grogan, 1988: 40. New name for *gracilipes*.
gracilipes (Remm), 1967: 27 (*Ceratopogon*, preoccupied by *Bezzia gracilipes* (Winnertz), 1852). Georgia.
remmi Gosseries, 1989: 2. New name for *gracilipes*. **NEW SYNONYM.**
longipennis (Wirth), 1955a: 201 (*Helea*). USA (California).
moravicus Knoz, 1987: 390. Czech Republic.
tontoeguri (Havelka), 1980: 86 (*Ceratopogon*). Germany.
virginianus (Wirth), 1951d: 318 (*Helea*). USA (Virginia).

Genus CERATOHELEA Wirth and Grogan

CERATOHELEA Wirth and Grogan, 1988: 40. Type species: *Ceratopogon advena* de Meillon, by original designation.

advena (de Meillon), 1959a: 341 (*Ceratopogon*). Zimbabwe.

Genus CERATOPALPOMYIA Szadziewski

CERATOPALPOMYIA Szadziewski, 1988: 171. Type species *Ceratopalpomyia eocenica* Szadziewski, by original designation.

eocenica Szadziewski, 1988: 173. Denmark. Eocene–Lower Oligocene.

Genus CERATOPOGON Meigen

HELEA Meigen, 1800: 18. Type species: *Ceratopogon communis* Meigen, desig-

nation by Coquillett, 1910: 549. Generic name suppressed by ICZN Opinion 678.

CERATOPOGON Meigen, 1803: 261. Type species: *Tipula barbicornis* Linnaeus (misidentified, = *Ceratopogon communis* Meigen), by monotypy.

CERAPOGON Rafinesque, 1815: 130 (unnecessary replacement name for *Ceratopogon* Meigen). Type species: *Ceratopogon communis* Meigen, automatic.

PSILOHELEA Kieffer, 1915c: 284 (misspelled as *Psilohelca*), 1917: 294. Type species: *Ceratopogon candidatus* Winnertz (= *Ceratopogon niveipennis* Meigen), by original designation.

ANAKEMPIA Kieffer, 1924a: 13. Type species: *Dasyhelea grandiforceps* Kieffer, by original designation.

DIPLOHELEA Kieffer, 1925a: 420. Type species: *Diplohelea parvula* Kieffer (= *Ceratopogon grandiforceps* Kieffer), by original designation).

abstrusus Borkent and Grogan, 1995: 40. Canada (British Columbia).

adductus Borkent and Grogan, 1995: 53. Mongolia.

algidus Borkent and Grogan, 1995: 80. Canada (British Columbia).

annettae Borkent and Grogan, 1995: 87. Canada (British Columbia).

arcanus Borkent and Grogan, 1995: 44. USA (Maryland).

bitterfeldi Szadziewski, 1993: 613. Germany. Miocene.

boomerangus Borkent and Grogan, 1995: 33. USA (Maryland).

cavatus Borkent and Grogan, 1995: 67. North Korea.

ceranowiczi Szadziewski, 1988: 77. Baltic region. Lower Eocene–Lower Oligocene.

cinaedicus Borkent and Grogan, 1995: 54. USA (Colorado).

cirrosus Remm, 1974c: 45. Kazakhstan.

communis Meigen, 1804: 27. Germany.

crypticus Szadziewski, 1988: 70. Baltic region. Eocene–Lower Oligocene.

culicoidithorax Hoffman, 1926a: 156. USA (New York).

curtus Borkent and Grogan, 1995: 64. USA (Alaska).

curvistylus Remm, 1993: 189. Russia.

denticulatus Borkent and Grogan, 1995: 58. Great Britain.

dsungaricus Remm, 1980: 101. Kazakhstan.

elevatus Borkent and Grogan, 1995: 48. Austria.

eminens Meunier, 1904a: 229 (1904b: 240). Baltic region. Eocene–Lower Oligocene.

ferulae Remm, 1974c: 43. Kyrgyzstan.

forcipiformis Meunier, 1904a: 235 (1904b: 246). Baltic region. Eocene–Lower Oligocene.

defectus Meunier, 1904a: 229 (1904b: 240). Baltic region. Eocene–Lower Oligocene.

fumipennis Remm, 1974c: 41. Kyrgyzstan.

gedanicus Szadziewski, 1988: 74. Baltic region. Eocene–Lower Oligocene.

gigaforceps Remm, 1973: 180. Russia.

grandiforceps (Kieffer), 1913a: 7 (*Dasyhelea*). Great Britain.

parvula (Kieffer), 1925a: 420 (*Diplohelea*). Great Britain.

grogani Szadziewski, 1988: 64. Baltic region. Eocene–Lower Oligocene.

hennigi Szadziewski, 1988: 60. Baltic region. Eocene–Lower Oligocene.

inverecundus Borkent and Grogan, 1995: 46. Canada (British Columbia).

kolensis Remm, 1993: 189. Russia.

kotejai Szadziewski, 1993: 616. Germany. Miocene.

kurilensis Remm, 1974c: 41. Russia.

lacteipennis Zetterstedt, 1838: 820. Norway.

edentatus (Edwards), 1921: 124 (*Psilohelea*). Great Britain.

sphagnicola (Kieffer), 1924b: 403 (*Anakempia*). Great Britain.

conjunctus (Kieffer), 1925a: 416 (*Anakempia*). Great Britain.

longitarsis (Mayer), 1940: 164 (*Helea*). Great Britain.

magniforceps (Kieffer), 1925a: 413 (*Trishelea*). Russia.

mallochi (Cole), *in* Cole and Lovett, 1921: 213 (*Hartomyia*). USA (Oregon).

mammulus Borkent and Grogan, 1995: 65. Canada (Yukon Territory).

margaritae Szadziewski, 1988: 80. Baltic region. Eocene–Lower Oligocene.

miocaenicus Szadziewski, 1993: 617. Germany. Miocene.

multisetosus Borkent and Grogan, 1995: 76. Canada (Nova Scotia).
naccinervis Borkent, in this work. New name for *crassinervis*.
crassinervis (Goetghebuer), 1920: 62 (*Stilobezzia*, preoccupied by *Palpomyia crassinervis* (de Meijere), 1907). Belgium.
nanalobus Borkent and Grogan, 1995: 97. Baltic region. Eocene–Lower Oligocene.
niveipennis Meigen, 1818: 73. Germany.
candidatus Winnertz, 1852: 57. Netherlands.
obscurus (Santos Abreu), 1918: 323 (*Ceratolophus*, as variety of *rufigastris*). Canary Islands (Spain).
pallicoleatus Borkent and Grogan, 1995: 83. USA (Oregon).
pandus Borkent and Grogan, 1995: 53. USA (Wisconsin).
paraeminens Borkent and Grogan, 1995: 99. Baltic region. Eocene–Lower Oligocene.
paucisetosus Remm, 1974c: 43. Estonia.
piotrowskii Szadziewski, 1988: 75. Baltic region. Eocene–Lower Oligocene.
pisinnus Borkent and Grogan, 1995: 97. Baltic region. Eocene–Lower Oligocene.
pontis Borkent and Grogan, 1995: 56. USA (Kansas).
pubiantennalis Borkent and Grogan, 1995: 74. Canada (Northwest Territories).
rectus Borkent and Grogan, 1995: 84. USA (Colorado).
relictus Borkent and Grogan, 1995: 32. USA (California).
remmicola Szadziewski, 1988: 71. Baltic region. Eocene–Lower Oligocene.
ritzkowskii Szadziewski, 1988: 78. Baltic region. Eocene–Lower Oligocene.
romanicus Damian-Georgescu, 1972: 19. Romania.
seculus Borkent and Grogan, 1995: 79. USA (Maryland).
subeminens Szadziewski, 1993: 617. Germany. Miocene.
succinicola Szadziewski, 1993: 620. Germany. Miocene.
tertiaricus Szadziewski, 1988: 62. Baltic region. Eocene–Lower Oligocene.
unguis (Tokunaga), 1940b: 255 (*Culicoides*). Japan.
willisi Borkent and Grogan, 1995: 81. USA (Maryland).

Genus CONGOHELEA Wirth and Grogan

CONGOHELEA Wirth and Grogan, 1988: 46. Type species: *Serromyia fuligipennis* Clastrier, by original designation.

fuligipennis (Clastrier), 1960b: 291 (*Serromyia*). Congo.

Genus DIAPHANOBEZZIA Ingram and Macfie

DIAPHANOBEZZIA Ingram and Macfie, 1931a: 223. Type species: *Diaphanobezzia pellucida* Ingram and Macfie, by original designation.

araucaria Spinelli, 1996: 77. Argentina.
patagonica Spinelli and Grogan, 1990: 127. Argentina.
pellucida Ingram and Macfie, 1931a: 223. Argentina.
spinellii Wirth and Grogan, 1988: 48. Argentina.

Genus DOWNESHELEA Wirth and Grogan

DOWNESHELEA Wirth and Grogan, 1988: 50. Type species: *Monohelea stonei* Wirth, by original designation.

balboa (Lane and Wirth), 1964: 225 (*Monohelea*). Panama.
bicornis Felippe-Bauer and Quintelas, 1993b: 185. Brazil.
bimaculata Clastrier and Delécolle, 1990: 148. Guinea.
blantoni (Lane and Wirth), 1964: 217 (*Monohelea*). Panama.
carioca (Tavares and Silva Pereira), 1978: 157 (*Monohelea*). Brazil.
castroi (Tavares and Silva Pereira), 1978: 159 (*Monohelea*). Brazil.
cebacoi (Lane and Wirth), 1964: 218 (*Monohelea*). Panama.
charrua Felippe-Bauer and Spinelli, 1994: 161. Uruguay.
chiapasi (Lane and Wirth), 1964: 219 (*Monohelea*). Nicaragua.
chirusi (Lane and Wirth), 1964: 218 (*Monohelea*). Panama.

colombiae (Lane and Wirth), 1964: 220 (*Monohelea*). Colombia.
deanei Felippe-Bauer and Quintelas, *in* Felippe-Bauer et al., 1995: 395. Trinidad.
fluminensis Felippe-Bauer and Quintelas, 1993a: 33. Brazil.
fuscipennis (Lane and Wirth), 1964: 221 (*Monohelea*). Colombia.
guianae (Wirth), 1953b: 150 (*Monohelea*). Guyana.
leei (Debenham), 1972: 16 (*Monohelea*). Australia (New South Wales).
macclurei (Ratanaworabhan and Wirth), 1972: 448 (*Monohelea*). Malaysia.
mcdanieli (Tokunaga), 1959: 411 (*Monohelea*). Belau (USA).
multilineata (Lutz), 1914: 93 (*Palpomyia*). Brazil.
nigeriae (Ingram and Macfie), 1922: 268 (*Monohelea*). Nigeria.
nigra (Tokunaga), 1963a: 243 (*Monohelea*). Papua New Guinea.
nubeculosa (Macfie), 1932c: 45 (*Monohelea*). New Zealand. **NEW COMBINATION.**
panamensis (Lane and Wirth), 1964: 221 (*Monohelea*). Panama.
quasidentica Felippe-Bauer and Quintelas, 1993a: 37. Brazil.
scanloni (Ratanaworabhan and Wirth), 1972: 449 (*Monohelea*). Thailand.
sepikensis (Debenham), 1972: 13 (*Monohelea*). Papua New Guinea.
stenochora Wirth and Giles, 1990: 446. Fiji.
stonei (Wirth), 1953b: 148 (*Monohelea*). USA (Louisiana).
unimaculata (Debenham), 1972: 5 (*Monohelea*). Australia (New South Wales).
whartoni (Ratanaworabhan and Wirth), 1972: 451 (*Monohelea*). Malaysia.
xanthogonua (Tokunaga), 1963a: 242 (*Monohelea*). Papua New Guinea.

Genus ECHINOHELEA Macfie

ECHINOHELEA Macfie, 1940c: 187. Type species: *Echinohelea ornatipennis* Macfie, by original designation.

Subgenus ECHINOHELEA Macfie

australiensis Debenham, 1970c: 152. Australia (Capital Territory).
blantoni Wirth, 1994c: 232. Panama.
flava Tokunaga, 1963a: 235. Papua New Guinea.
harbelensis de Meillon, 1960: 409. Liberia.
hardyi Tokunaga, 1963a: 235. Papua New Guinea.
jamaicensis Wirth, 1994c: 234. Jamaica.
laensis Tokunaga, 1963a: 236. Papua New Guinea.
lanei Wirth, 1951d: 319. USA (Virginia).
leei Wirth, 1994c: 237. Colombia.
longirostris Debenham, 1970c: 147. Papua New Guinea.
macfiei Lane, 1948: 228. Brazil.
moresbyensis Debenham, 1970c: 149. Papua New Guinea.
neotropica Wirth, 1994c: 237. Colombia.
notipes Debenham, 1970c: 152. Papua New Guinea.
ornata Clastrier, 1984c: 368. Guinea.
ornatipennis Macfie, 1940c: 188. Guyana.
pallida Debenham, 1970c: 155. Papua New Guinea.
panamensis Wirth, 1994c: 239. Panama.
papuensis Tokunaga, 1966a: 112. Papua New Guinea.
pastoriana Clastrier, 1984c: 362. Guinea.
pictipennis Tokunaga, 1963a: 231. Papua New Guinea.
richardsi Macfie, 1940c: 189. Guyana.
smarti Macfie, 1940c: 190. Guyana.
vicina Clastrier, 1984c: 366. Guinea.
voltana de Meillon, 1959b: 15. Burkina Faso.
zonata Tokunaga, 1963a: 234. Papua New Guinea.

Subgenus ECHINOIDESHELEA Wirth

ECHINOIDESHELEA Wirth, 1994c: 231 (as subgenus of *Echinohelea*). Type species: *Echinohelea aitkeni* Wirth, by original designation.

aitkeni Wirth, 1994c: 231. Brazil.

Genus EOHELEA Petrunkevitch

EOHELEA Petrunkevitch, 1957: 208. Type species: *Eohelea stridulans* Petrunkevitch (= *Ceratopogon sinuosus* Meunier), by original designation.

fossicola Szadziewski, 1993: 624. Germany. Miocene.

gedanica Szadziewski, 1988: 165. Poland. Eocene–Lower Oligocene.
grogani Szadziewski, 1988: 164. Poland. Eocene–Lower Oligocene.
miocaenea Szadziewski, 1993: 625. Germany. Miocene.
petrunkevitchi Szadziewski, 1984b: 39 (1985b: 127). Poland. Eocene–Lower Oligocene.
sakhalinica Szadziewski, 1990a: 78. Russia. Tertiary.
sinuosa (Meunier), 1904a: 234 (1904b: 245) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
stridulans Petrunkevitch, 1957: 209. Baltic region. Eocene–Lower Oligocene.

Genus FANTHAMIA de Meillon

FANTHAMIA de Meillon, 1939c: 103 (as subgenus of *Ceratopogon*). Type species: *Ceratopogon adulator* de Meillon, by original designation.

abdita de Meillon and Wirth, 1987a: 46. South Africa.
adulator (de Meillon), 1939c: 104 (*Ceratopogon*). South Africa.
aniculae de Meillon and Downes, 1986: 167. South Africa.
cardinis de Meillon and Wirth, 1979c: 194. Zimbabwe.
carina (de Meillon and Hardy), 1953: 28 (*Ceratopogon*). South Africa.
draconis de Meillon and Downes, 1986: 170. South Africa.
forsteri de Meillon and Downes, 1986: 169. South Africa.
gigantulus de Meillon and Wirth, 1979c: 196. South Africa.
imperfecta (Goetghebuer), 1935d: 172 (*Culicoides*). Congo.
jonkeri de Meillon and Wirth, 1987a: 48. South Africa.
mennoi de Meillon and Wirth, 1981c: 582. South Africa.
montana de Meillon and Downes, 1986: 167. South Africa.
ornatipennis (de Meillon), 1939c: 106 (*Ceratopogon*). South Africa.
sani de Meillon and Downes, 1986: 168. South Africa.

Genus FITTKAUHELEA Wirth and Blanton

FITTKAUHELEA Wirth and Blanton, 1970a: 7. Type species: *Fittkauhelea amazonica* Wirth and Blanton, by original designation.

amazonica Wirth and Blanton, 1970a: 9. Brazil.

Genus FOSSIHELEA Szadziewski

FOSSIHELEA Szadziewski, 1988: 104. Type species: *Fossihelea gracilitarsis* Szadziewski, by original designation.

gracilitarsis (Meunier), 1904a: 235 (1904b: 246) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
miocaenica Szadziewski, 1993: 627. Germany. Miocene.

Genus GEDANOHELEA Szadziewski

GEDANOHELEA Szadziewski, 1988: 166. Type species: *Gedanohelea loewi* Szadziewski, by original designation.

loewi Szadziewski, 1988: 168. Poland. Eocene–Lower Oligocene.
succinea Szadziewski, 1988: 169. Poland. Eocene–Lower Oligocene.
wirthi Szadziewski, 1988: 170. Denmark. Eocene–Lower Oligocene.

Genus HELEAGERON Borkent

HELEAGERON Borkent, 1995: 47. Type species: *Heleageron arenatus* Borkent, by original designation.

arenatus Borkent, 1995: 48. Canada (Alberta). Upper Cretaceous.
grimaldii Borkent, 1996: 15. USA (New Jersey). Upper Cretaceous.

Genus HETEROCERATOPOGON Wirth and Grogan

HETEROCERATOPOGON Wirth and Grogan, 1988: 55. Type species: *Heteroceratopogon poguei* Wirth and Grogan, by original designation.

poguei Wirth and Grogan, 1988: 57. New Caledonia (France).

Genus HETEROHELEA Clastrier

HETEROHELEA Clastrier, 1985b: 272. Type species: *Heterohelea minutissima* Clastrier, by original designation.

minutissima Clastrier, 1985b: 272. New Caledonia (France).

Genus ISTHMOHELEA Ingram and Macfie

ISTHMOHELEA Ingram and Macfie, 1931a: 208. Type species: *Isthmohelea disjuncta* Ingram and Macfie, by original designation.

disjuncta Ingram and Macfie, 1931a: 209. Chile.

Genus KOLENOHELEA de Meillon and Wirth

KOLENOHELEA de Meillon and Wirth, 1981a: 513. Type species: *Kolenohelea dycei* de Meillon and Wirth, by original designation.

calcarata (Goetghebuer), 1920: 64 (*Monohelea*). Belgium.
sharpi (Edwards), 1929a: 427 (*Stilobezzia*). Great Britain.
fusca (Goetghebuer), 1932a: 125 (*Stilobezzia*). Belgium.
dycei de Meillon and Wirth, 1981a: 517. South Africa.
equilis de Meillon and Wirth, 1987a: 48. South Africa.
fuscipennis Clastrier, 1984e: 369. Guinea.
inusitata de Meillon and Wirth, 1981c: 586. South Africa.
jarmilae de Meillon and Downes, 1986: 172. South Africa.
kindiae Clastrier, 1984e: 366. Guinea.
leonina de Meillon and Wirth, 1987a: 50. South Africa.
luciae de Meillon and Wirth, 1983a: 361. South Africa.
milleri de Meillon and Wirth, 1981a: 521. South Africa.
mira de Meillon and Wirth, 1981c: 583. South Africa.
mirabunda de Meillon and Wirth, 1981a: 522. South Africa.
mirifica de Meillon and Wirth, 1981a: 519. South Africa.
monticola de Meillon and Downes, 1986: 174. South Africa.
ornata Clastrier, 1984e: 367. Guinea.
pedi de Meillon and Wirth, 1987a: 50. South Africa.
pugilator de Meillon and Wirth, 1987a: 52. South Africa.
uysorum de Meillon, Meiswinkel and Wirth, 1982: 138. South Africa.

Genus LEPTOHELEA Wirth and Blanton

LEPTOHELEA Wirth and Blanton, 1970a: 12. Type species: *Leptohelea micronyx* Wirth and Blanton, by original designation.

micronyx Wirth and Blanton, 1970a: 12. Colombia.

Genus LUCIAMYIA de Meillon

LUCIAMYIA de Meillon, 1937b: 380. Type species: *Luciamyia biloba* de Meillon, by original designation.

biloba de Meillon, 1937b: 380. South Africa.
irrita (de Meillon), 1937b: 383 (*Monohelea*). South Africa.

Genus MACRUROHELEA Ingram and Macfie

MACRUROHELEA Ingram and Macfie, 1931a: 203. Type species: *Macrurohelea caudata* Ingram and Macfie, by original designation.

caudata Ingram and Macfie, 1931a: 205. Chile.
commoni Lee, 1963: 339. Australia (New South Wales).
dycei Grogan and Wirth, 1985: 133. Australia (New South Wales).
fuscipennis Spinelli and Grogan, 1990: 128. Argentina.
gentilii Spinelli and Grogan, 1984: 963. Argentina.
irwini Grogan and Wirth, 1980b: 140. Chile.
kuscheli Wirth, 1965c: 49. Chile.
leei Grogan and Wirth, 1985: 131. Australia (Queensland).
monotheca Spinelli and Grogan, 1984: 965. Argentina.

paracaudata Grogan and Wirth, 1980b: 141. Chile.
setosa Wirth, 1965c: 49. Chile.
similis Spinelli and Grogan, 1990: 131. Argentina.
thoracica Ingram and Macfie, 1931a: 206. Argentina.
wirthi Spinelli and Grogan, 1984: 965. Argentina.

Genus METACANTHOHELEA Wirth and Grogan

METACANTHOHELEA Wirth and Grogan, 1988: 65. Type species: *Metacanthohelea cogani* Wirth and Grogan, by original designation.

cogani Wirth and Grogan, 1988: 66. Aldabra (Seychelles).

Genus MANTOHELEA Szadziewski

MANTOHELEA Szadziewski, 1988: 144. Type species: *Ceratopogon lacus* Meunier, by original designation.

gedanica Szadziewski, 1988: 146. Poland. Eocene–Lower Oligocene.
laca (Meunier), 1904a: 232 (1904b: 243) (*Ceratopogon*). Baltic region. Eocene—Lower Oligocene.

Genus MEUNIEROHELEA Szadziewski

MEUNIEROHELEA Szadziewski, 1988: 148. Type species: *Meunierohelea nielseni* Szadziewski, by original designation.
CHIMAEROHELEA Debenham, 1988: 801. Type species: *Chimaerohelea caligula* Debenham, by original designation.

caligula (Debenham), 1988: 803 (*Chimaerohelea*). Australia (Queensland).
gedanicola Szadziewski, 1988: 153. Poland. Eocene–Lower Oligocene.
miocaenica (Szadziewski), 1993: 622 (*Chimaerohelea*). Germany. Miocene.
nielseni Szadziewski, 1988: 150. Denmark. Eocene–Lower Oligocene.
wirthi Szadziewski, 1988: 157. Denmark. Eocene–Lower Oligocene.

Genus MONOHELEA Kieffer

MONOHELEA Kieffer, 1917b: 294. Type species: *Monohelea hieroglyphica* Kieffer, by original designation.

accipiter Debenham, 1972: 34. Australia (New South Wales).
affinis Felippe-Bauer and Spinelli, 1991: 201. Brazil.
aguirrei Tavares and Sousa, 1980: 97. Brazil.
albiclavatoris Tokunaga and Murachi, 1959: 407. Micronesia.
andersoni Wirth and Grogan, 1981: 30. USA (Maryland).
andrei Vattier and Adam, 1966b: 744. Congo.
annulata Debenham, 1972: 18. Australia (Northern Territory).
archibaldoi Tavares and Sousa, 1980: 98. Brazil.
avicularis Remm, 1993: 185. Azerbaijan.
baltica Szadziewski, 1988: 130. Poland. Eocene–Lower Oligocene.
beaveri Wirth and Giles, 1990: 448. Fiji.
bidens Debenham, 1972: 35. Australia (Capital Territory).
bidentata Felippe-Bauer and Spinelli, 1994: 163. Argentina.
bifurcata Wirth and Williams, 1964: 308. USA (Massachusetts).
boucheti Clastrier, 1993b: 161. New Caledonia (France).
boudinoti Clastrier, 1993b: 160. New Caledonia (France).
brasiliensis Lane, 1948: 226. Brazil.
candescens Debenham, 1972: 25. Australia (New South Wales).
chalybeata Clastrier, 1960b: 286. Congo.
chazeaui Clastrier, 1985d: 752. New Caledonia (France).
clavipes Macfie, 1932c: 48. New Zealand.
clunipes (Loew), 1850: 30 (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
cognata Clastrier, 1960b: 289. Congo.
coloisuvae Wirth and Giles, 1990: 449. Fiji.
cunasi Lane and Wirth, 1964: 232. Panama.
dorsotaeniata Clastrier, 1985d: 756. New Caledonia (France).
estonica Remm, 1965: 182. Estonia.
fairchildi Lane and Wirth, 1964: 214. Panama.

falcata Debenham, 1972: 7. Australia (New South Wales).
fijiensis Wirth and Giles, 1990: 451. Fiji.
floridensis Wirth and Williams, 1964: 309. USA (Florida).
gemina Debenham, 1972: 39. Australia (New South Wales).
grogani Delécolle and Rieb, 1995: 34. USA (Arkansas).
guaimiesi Lane and Wirth, 1964: 277. Panama.
hieroglyphica Kieffer, 1917b: 312. Paraguay.
hirsuta Wirth and Grogan, 1981: 36. USA (Maryland).
hissarica Remm, 1980: 91. Tajikistan.
hyalinipennis Clastrier, 1993b: 162. New Caledonia (France).
impunctatipennis Clastrier, 1985d: 748. New Caledonia (France).
inflatistyla Debenham, 1972: 30. Australia (New South Wales).
jamnbacki Wirth and Williams, 1964: 308. USA (Michigan).
knighti Wirth and Williams, 1964: 305. USA (Florida).
lanei Wirth, 1953b: 142. USA (Florida).
legrandi Clastrier, 1984a: 49. Gabon.
leveri Wirth and Giles, 1990: 452. Fiji.
lutea Tokunaga, 1963a: 241. Papua New Guinea.
macfiei Wirth, 1953b: 143. USA (Louisiana).
maculipennis (Coquillett), 1905: 64 (*Ceratopogon*). USA (Florida).
magnitheca Wirth and Grogan, 1981: 42. USA (Maryland).
makonde de Meillon and Wirth, 1983a: 363. South Africa.
mayeri Ortiz, 1950d: 202. Venezuela.
minuscula Clastrier, 1985d: 758. New Caledonia (France).
neocaledonica Clastrier, 1993b: 158. New Caledonia (France).
novaguinensis Tokunaga, 1959: 309. Papua New Guinea.
obscura Wirth and Williams, 1964: 304. USA (Massachusetts).
orientalis Ratanaworabhan and Wirth, 1972: 444. Thailand.
ornata Wirth, 1953b: 144. USA (Florida).
ornatissima Clastrier, 1985d: 750. New Caledonia (France).
ornatithorax Clastrier and Delécolle, 1990: 153. Guinea.
pahangensis Ratanaworabhan and Wirth, 1972: 443. Malaysia.
palauensis Tokunaga, *in* Tokunaga and Murachi, 1959: 408. Belau (USA).
pallida Clastrier and Delécolle, 1990: 151. Guinea.
palustria Debenham, 1972: 28. Australia (Queensland).
paranigripes Saha and Das Gupta, 1991: 6. India.
periucunda de Meillon and Wirth, 1981c: 587. South Africa.
phoenix Debenham, 1972: 38. Australia (New South Wales).
polychroma Clastrier, 1958b: 252. Senegal.
poncai Lane and Wirth, 1964: 228. Panama.
ponticulifera Debenham, 1972: 38. Australia (Capital Territory).
praeclara Goetghebuer, 1935d: 178. Zaire.
pseudochelagonata Saha and Das Gupta, 1991: 8. India.
radialis Debenham, 1972: 22. Australia (Queensland).
roraimensis Felippe-Bauer and Spinelli, 1991: 202. Brazil.
scirpi (Kieffer), 1901a: 157 (*Serromyia*). Germany.
scutofasciata Clastrier, 1985d: 754. New Caledonia (France).
smeei Tokunaga, 1963a: 239. Papua New Guinea.
subpahangensis Saha and Das Gupta, 1991: 7. India.
texana Wirth, 1953b: 143. USA (Texas).
tigrina (Skuse), 1889: 306 (*Ceratopogon*). Australia (New South Wales).
transversalis Clastrier, 1960b: 290. Congo.
umbrosipennis Debenham, 1972: 32. Australia (Queensland).
unica Sinha and Das Gupta, 1992: 26. India.
urracaisi Lane and Wirth, 1964: 231. Panama.
ussurica Remm, 1971: 208. Russia.
wirthi Khalaf, 1969: 407. USA (Mississippi).

Genus NANNOHELEA Grogan and Wirth

NANNOHELEA Grogan and Wirth, 1980a: 374. Type species: *Ceratopogon bourioni* Clastrier, by original designation.

bourioni (Clastrier), 1961: 424 (*Ceratopogon*). Algeria.
clastrieri Grogan and Wirth, 1980a: 381. Colombia.
eocenica Szadziewski, 1988: 101. Denmark. Eocene–Lower Oligocene.
fuscipennis (Tokunaga), 1964: 298 (*Ceratopogon*). Papua New Guinea.
grogani Szadziewski, 1988: 99. Denmark. Eocene–Lower Oligocene.
tamil Grogan and Wirth, 1990: 348. Sri Lanka.

Genus NEOHELEA Clastrier

NEOHELEA Clastrier, 1988a: 53. Type species: *Neohelea pastoriana* Clastrier, by original designation.

pastoriana Clastrier, 1988a: 55. Guinea.

Genus NEUROBEZZIA Wirth and Ratanaworabhan

NEUROBEZZIA Wirth and Ratanaworabhan, 1972b: 244. Type species: *Bezzia granulosa* Wirth, by original designation.

granulosa (Wirth), 1952a: 240 (*Bezzia*). USA (California).
tsacasi Clastrier, 1983c: 64. Seychelles.

Genus NEUROHELEA Kieffer

NEUROHELEA Kieffer, 1925d: 112. Type species: *Ceratopogon luteitarsis* Waltl, by monotypy.

cothurnata (Meunier), 1904a: 231 (1904b: 242) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
flagella Meunier, 1904a: 230 (1904b: 241) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
luteitarsis (Waltl), 1837a: 279 (*Ceratopogon*). Germany.
subsessilis (Goetghebuer), 1921: 181 (*Clinohelea*). Belgium.
macroneura (Malloch), 1915a: 337 (*Johannsenomyia*). USA (Kansas).
nigra Wirth, 1952a: 208. USA (California).

Genus NOTIOHELEA Grogan and Wirth

NOTIOHELEA Grogan and Wirth, 1979c: 283. Type species: *Notiohelea chilensis* Grogan and Wirth, by original designation.

chilensis Grogan and Wirth, 1979c: 284. Chile.
pilosa Spinelli and Grogan, 1990: 133. Argentina.

Genus NOTOCERATOPOGON de Meillon and Downes

NOTOCERATOPOGON de Meillon and Downes, 1986: 157. Type species: *Notoceratopogon minutus* de Meillon and Downes, by original designation.

alcides (de Meillon and Hardy), 1954: 74 (*Ceratopogon*). South Africa.
minutus de Meillon and Downes, 1986: 161. South Africa.
natalensis (de Meillon), 1937b: 378 (*Ceratopogon*). South Africa.
vockerothi de Meillon and Downes, 1986: 162. South Africa.

Genus PALAEOBRACHYPOGON Borkent

PALAEOBRACHYPOGON Borkent, 1995: 70. Type species: *Palaeobrachypogon vetus* Borkent, by original designation.

aquilonius (Boesel), 1937: 49 (*Ceratopogon*). Canada (Manitoba). Upper Cretaceous.
macronyx (Remm), 1976b: 113 (*Ceratopogon*). Russia. Upper Cretaceous.
remmi Borkent, 1995: 76. Canada (Alberta). Upper Cretaceous.
vetus Borkent, 1995: 78. Canada (Alberta). Upper Cretaceous.

Genus PARABEZZIA Malloch

PARABEZZIA Malloch, 1915a: 358. Type species: *Parabezzia petiolata* Malloch, by original designation.

alexanderi Wirth, 1965b: 219. USA (Massachusetts).
arenosa Clastrier and Raccurt, 1979a: 172. Haiti.
atchleyi Grogan and Wirth, 1977a: 67. USA (Texas).

balseiroi Spinelli and Grogan, 1987: 13. Argentina.
blantoni Wirth, 1965b: 220. Panama.
brasiliensis Spinelli and Grogan, 1987: 34. Brazil.
brunnea Wirth, 1965b: 220. Panama.
bystraki Grogan and Wirth, 1977a: 70. USA (Maryland).
caribbeana Clastrier and Raccurt, 1979a: 173. Haiti.
cayoensis Spinelli and Grogan, 1987: 36. Belize.
clastrieri Spinelli and Grogan, 1987: 23. El Salvador.
costalis Wirth, 1965b: 221. Panama.
downesi Wirth, 1965b: 222. Canada (Ontario).
eupetiolata Grogan and Wirth, 1977a: 79. USA (New York).
falcipennis Clastrier, 1960b: 293. Congo.
insolita Vattier and Adam, 1966b: 769. Congo.
fuscipennis Wirth, 1965b: 223. Panama.
grogani Szadziewski and Wirth, 1983: 359. Algeria.
haitiensis Clastrier and Raccurt, 1979a: 170. Haiti.
hondurensis Spinelli and Grogan, 1987: 25. Honduras.
horvathi Grogan and Wirth, 1977a: 81. USA (Florida).
huberti Grogan and Wirth, 1977a: 75. USA (Maryland).
inaequalis Spinelli and Grogan, 1987: 38. Brazil.
inermis (Coquillett), 1902a: 86 (*Ceratopogon*). USA (Arizona).
jamaicensis Wirth, 1965b: 224. Jamaica.
neunguis Grogan and Wirth, 1977a: 65. USA (Virginia).
obscura de Meillon and Wirth, 1981c: 588. South Africa.
orientalis Giles and Wirth, 1982b: 823. Sri Lanka.
pallida Spinelli and Grogan, 1987: 40. Mexico.
panamensis Wirth, 1965b: 225. Panama.
petiolata Malloch, 1915a: 359. USA (Illinois).
pseudunguis Spinelli and Grogan, 1987: 30. Panama.
raccurti Spinelli and Grogan, 1987: 42. El Salvador.
spangleri Wirth, 1965b: 227. Puerto Rico (USA).
stagni de Meillon and Wirth, 1981b: 538. South Africa.
texensis Grogan and Wirth, 1977a: 60. USA (Texas).
uncinata (Johannsen), 1943: 761 (*Stilobezzia*). USA (Alabama).
unguis Wirth, 1965b: 228. USA (Arizona).
williamsi Wirth, 1965b: 229. USA (Michigan).
wirthi Clastrier and Raccurt, 1979a: 169. Haiti.

Genus PARALLUAUDOMYIA Clastrier

PARALLUAUDOMYIA Clastrier, 1960b: 268. Type species: *Paralluaudomyia maculata* Clastrier, by original designation.

maculata Clastrier, 1960b: 269. Congo.

Genus PARASTILOBEZZIA Wirth and Blanton

PARASTILOBEZZIA Wirth and Blanton, 1970a: 10. Type species: *Parastilobezzia leei* Wirth and Blanton, by original designation.

leei Wirth and Blanton, 1970a: 10. Colombia.

Genus PERONEHELEA Borkent

PERONEHELEA Borkent, 1995: 80. Type species: *Peronehelea chrimikalydia* Borkent, by original designation.

chrimikalydia Borkent, 1995: 82. Canada (Alberta). Upper Cretaceous.
frigidus (Remm), 1976b: 115 (*Ceratopogon*). Russia. Upper Cretaceous.
sibirica Szadziewski, 1996: 69. Russia. Upper Cretaceous.

Genus PSEUDOSTILOBEZZIA Wirth and Ratanaworabhan

PSEUDOSTILOBEZZIA Wirth and Ratanaworabhan, 1973: 177. Type species: *Pseudostilobezzia macclurei* Wirth and Ratanaworabhan, by original designation.

macclurei Wirth and Ratanaworabhan, 1973: 178. Viet Nam.

Genus RHYNCHOHELEA Wirth and Blanton

RHYNCHOHELEA Wirth and Blanton, 1970c: 96. Type species: *Rhynchohelea monilicornis* Wirth and Blanton, by original designation.

monilicornis Wirth and Blanton, 1970c: 98. USA (Florida).

Genus SCHIZOHELEA Kieffer

SCHIZOHELEA Kieffer, 1917b: 295. Type species: *Ceratopogon copiosus* Winnertz (= *Ceratopogon leucopeza* Meigen), by monotypy.

KIEFFEROMYIA Mayer, 1937: 303. Type species: *Kiefferomyia gorana* Mayer (= *Ceratopogon leucopeza* Meigen), by original designation.

armata (Remm), 1993: 182 (*Monohelea*). Russia. **NEW COMBINATION.**

incerta (Clastrier), 1963: 60 (*Monohelea*). Algeria.

lampropeza (Remm), 1967: 29 (*Monohelea*). Georgia.

leucopeza (Meigen), 1804: 29 (*Ceratopogon*). Europe.

albitarsis (Wiedemann), 1817: 67. (*Ceratopogon*). Germany.

copiosa (Winnertz), 1852: 56 (*Ceratopogon*). Germany.

polita (Coquillett), 1901a: 606 (*Ceratopogon*). USA (Massachusetts).

stecki (Kieffer), 1915b: 65 (*Bezzia*). Switzerland.

gorana (Mayer), 1937: 303 (*Kiefferomyia*). Germany.

xanthopeza (Clastrier), 1963: 55 (*Monohelea*). Belgium, Norway, Finland.

pekae (Remm), 1980: 89 (*Monohelea*). Kyrgyzstan.

spathulata (Remm), 1993: 183 (*Monohelea*). Armenia. **NEW COMBINATION.**

Genus SCHIZONYXHELEA Clastrier

SCHIZONYXHELEA Clastrier, 1984b: 1. Type species: *Schizonyxhelea guyana* Clastrier, by original designation.

forattinii Wirth and Grogan, 1988: 81. Brazil.

guyana Clastrier, 1984b: 2. French Guiana.

Genus SERROMYIA Meigen

SERROMYIA Meigen, 1818: 83. Type species: *Ceratopogon femoratus* Meigen, by monotypy.

PRIONOMYIA Stephens, 1829b: 237. Type species: *Ceratopogon femoratus* Meigen, designation by Westwood, 1840: 126.

CERATOLOPHUS Kieffer, 1899: 69 (preoccupied by Barboza de Bocage, 1873). Type species: *Ceratopogon femoratus* Meigen, by original designation.

JOHANNSENIELLA Williston, 1907: 1. New name for *Ceratolophus* Kieffer. Type species: *Ceratopogon femoratus* Meigen, automatic.

CERATOLOPHANA Strand, 1928: 48. New name for *Ceratolophus* Kieffer. Type species: *Ceratopogon femoratus* Meigen, automatic.

aethiopiae Clastrier and Wirth, 1961a: 219. Gambia.

agathae de Meillon and Wirth, 1983b: 388. South Africa.

alphea (Heyden), 1870: 251 (*Ceratopogon*). Germany. Miocene.

austera Statz, 1944: 150. Germany. Oligocene.

colorata Statz, 1944: 150. Germany. Oligocene.

spinofemorata Statz, 1944: 151. Germany. Oligocene.

anomalicornis (Loew), 1850: 30 (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.

atra (Meigen), 1818: 84 (*Ceratopogon*). Latvia.

albitarsis Kieffer, 1919a: 71. Hungary.

micronyx Kieffer, 1919a: 70. Hungary.

spinosipes Kieffer, 1919a: 72. Hungary.

nitens Goetghebuer, 1920: 73. Belgium.

barberi Wirth, 1952a: 205. USA (California).

bicolor Borkent, *in* Borkent and Bissett, 1990: 196. Germany.

borealis Borkent, *in* Borkent and Bissett, 1990: 186. Canada (Alberta).

crassifemorata Malloch, 1914a: 218. USA (Illinois).
esakii Tokunaga, 1940a: 218. Micronesia.
femorata (Meigen), 1804: 28 (*Ceratopogon*). Europe.
armata (Meigen), 1818: 83 (*Ceratopogon*). Germany.
foersteri (Meigen), 1838: 21 (*Ceratopogon*). Great Britain.
flavipes (Gimmerthal), 1847: 144 (*Ceratopogon*, preoccupied by *Palpomyia flavipes* (Meigen), 1804). Great Britain.
flavicrus (Kieffer), 1906a: 63 (*Palpomyia*). New name for *flavipes*.
inermipes Kieffer, 1919a: 73. Great Britain.
festiva Kieffer, 1911c: 346. Seychelles.
flaviventris Remm, 1993: 182. Russia.
heveli Giles and Wirth, 1982a: 442. Sri Lanka.
ledicola Kieffer, 1925b: 156. Estonia.
europaea Clastrier, 1963: 61. Austria.
macronyx Goetghebuer, 1933c: 355. Belgium.
maculipennis Giles and Wirth, 1982a: 444. Sri Lanka.
mangrovi Delécolle and Braverman, 1987: 57. Egypt.
meiswinkeli de Meillon and Wirth, 1983b: 390. South Africa.
morio (Fabricius), 1775: 800 (*Culex*). Great Britain.
nudipennis Kieffer, 1913a: 10. Great Britain.
neethlingi de Meillon and Wirth, 1983b: 392. South Africa.
nocticolor Kieffer, 1914b: 268. South Africa.
armipes (de Meillon), 1959a: 343 (*Ceratopogon*, preoccupied by *Palpomyia armipes* (Meigen), 1838). South Africa.
corinneae (Gosseries), 1989: 2 (*Ceratopogon*). New name for *armipes*. **NEW COMBINATION, NEW SYNONYM.**
nudicolis Borkent, *in* Borkent and Bissett, 1990: 188. USA (Maine).
pacifica Remm, 1990: 4 (Remm, *in* Borkent and Bissett, 1990: 201). Russia.
pendleburyi Macfie, 1934c: 280. Malaysia.
polonica Szadziewski, 1988: 135. Poland. Eocene–Lower Oligocene.
punctata Giles and Wirth, 1982a: 446. Sri Lanka.
reyei Debenham, 1970d: 161. Australia (Northern Territory).
rossi de Meillon and Wirth, 1983b: 396. South Africa.
rufitarsis (Meigen), 1818: 83 (*Ceratopogon*). Europe.
gelida Kieffer, 1925a: 429. Latvia.
bispinosa Goetghebuer, 1936: 321. Belgium.
dipetala Remm, 1965: 182. Estonia.
ryszardi Borkent, *in* Borkent and Bissett, 1990: 207. Poland. Eocene–Lower Oligocene.
sierrensis Borkent, *in* Borkent and Bissett, 1990: 190. USA (California).
silvatica de Meillon and Downes, 1986: 175. South Africa.
sinuosa Borkent, *in* Borkent and Bissett, 1990: 207. Poland. Eocene–Lower Oligocene.
spinigera (Loew), 1850: 30 (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
elongata (Meunier), 1904a: 231 (1904b: 242) (*Ceratopogon*, preoccupied by *Forcipomyia elongata* (Kieffer), 1901a). Baltic region. Eocene–Lower Oligocene.
stuckenbergi de Meillon and Wirth, 1983b: 398. South Africa.
subinermis Kieffer, 1919a: 73 (as variety of *spinosipes*). Hungary.
succinea Szadziewski, 1988: 136. Poland. Eocene–Lower Oligocene.
tecta Borkent, *in* Borkent and Bissett, 1990: 205. Austria.
vockerothi Borkent, *in* Borkent and Bissett, 1990: 191. Canada (Manitoba).
zuluensis de Meillon and Wirth, 1981c: 589. South Africa.

Genus SINHALOHELEA Grogan and Borkent

SINHALOHELEA Grogan and Borkent, 1992: 314. Type species: *Sinhalohelea gansi* Grogan and Borkent, by original designation.

gansi Grogan and Borkent, 1992: 315. Sri Lanka.

Genus STILOBEZZIA Kieffer

STILOBEZZIA Kieffer, 1911a: 118. Type species: *Stilobezzia festiva* Kieffer, by original designation.

HARTOMYIA Malloch, 1915a: 339. Type species: *Ceratopogon pictus* Coquillett (= *Stilobezzia coquilletti* Kieffer), by original designation.

Subgenus ACANTHOHELEA Kieffer

ACANTHOHELEA Kieffer, 1917a: 198. Type species: *Acanthohelea pruinosa* Kieffer, by monotypy.

PALEOTETRAGONEURA Meunier, 1920a: 897 (1920b: 1221). Type species: *Tetragoneura veterana* Meunier, by monotypy.

NEOSTILOBEZZIA Goetghebuer, 1934a: 53 (as subgenus of *Stilobezzia*). Unavailable name; proposed after 1930 without type species designation.

NEOSTILOBEZZIA Wirth, 1953a: 63. Type species: *Ceratopogon ochraceus* Winnertz, by original designation.

acrotrichis Tokunaga, 1959: 301. Papua New Guinea.

afra Clastrier, 1991a: 298. Guinea.

afrotropica Clastrier, 1991a: 302. Guinea.

alba Tokunaga, 1940d: 155. Japan.

albiabdominalis Tokunaga and Murachi, 1959: 368. Micronesia.

amaniensis de Meillon, *in* Wirth et al., 1980: 168. New name for *monticola*.

monticola de Meillon, 1960: 403 (preoccupied by *Stilobezzia monticola* Tokunaga, 1940b). Tanzania.

amazonica Clastrier, 1991a: 306. French Guiana.

amplistyla Clastrier, 1989a: 13. Guinea.

antipodalis Ingram and Macfie, 1931b: 203. New Zealand.

armatibiae Tokunaga, 1963a: 260. Papua New Guinea.

artistyla Das Gupta and Wirth, 1968: 41. Thailand.

atrichopogon Lane and Forattini, 1956: 208. Panama.

badia Macfie, 1932c: 41. New Zealand.

biangulata Tokunaga, 1963a: 274. Papua New Guinea.

bicinctipes Ingram and Macfie, 1931a: 195. Chile.

bifurcata Tokunaga, 1959: 307. Papua New Guinea.

brandti Tokunaga, 1963a: 276. Papua New Guinea.

brevistyla Clastrier, 1989a: 12. Guinea.

calcaris Tokunaga and Murachi, 1959: 382. Micronesia.

caryoni Clastrier, 1986a: 284. Guinea.

centripictura Tokunaga, 1963a: 252. Indonesia.

cereola Clastrier, 1963: 51. Macedonia.

challieri Vattier and Adam, 1966b: 741. Congo.

clavicula Tokunaga, 1963a: 270. Papua New Guinea.

constans Das Gupta and Wirth, 1968: 42. Philippines.

corneti Clastrier, 1991a: 303. Burkina Faso.

crassiforceps Tokunaga, 1963a: 266. Papua New Guinea.

crassivenosa Das Gupta and Wirth, 1968: 44. Pakistan.

differens de Meillon, 1960: 406. Liberia.

dispartheca Das Gupta, Chaudhuri and Sanyal, 1971: 440. India.

distinctigenitalis Das Gupta, Chaudhuri and Sanyal, 1971: 438. India.

djalonensis Clastrier, 1988c: 127. Guinea.

donskoffi Clastrier, 1988a: 60. Zaire.

douryi Clastrier, 1963: 42. Algeria.

edwardsi Ingram and Macfie, 1931a: 198. Argentina.

eliptaminensis Tokunaga, 1963a: 265. Papua New Guinea.

falcata (Meunier), 1904a: 233 (1904b: 244) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.

spinosa (Meunier), 1904a: 234 (1904b: 245) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.

fasciscutata Das Gupta and Wirth, 1968: 46. Malaysia.

fitzroyensis Lee, 1948c: 350. Australia (New South Wales).

flava Chaudhuri, Das Gupta and Sinharay, 1974: 49. India.

flavida de Meillon and Wirth, 1987a: 56. South Africa.

fortistyla Das Gupta and Wirth, 1968: 48. Malaysia.

fulva de Meillon and Downes, 1986. South Africa.
fulvacea Remm, 1980: 95. Tajikistan.
fulviscuta Tokunaga and Murachi, 1959: 399. Micronesia.
furcellata Remm, 1980: 93. Tajikistan.
furcipes de Meillon, 1960: 404. Liberia.
furva Ingram and Macfie, 1931a: 200. Argentina.
fuscidorsum Kieffer, 1921a: 58. Germany.
fuscigenua Tokunaga and Murachi, 1959: 373. Belau (USA).
fusciscutellata Tokunaga and Murachi, 1959: 376. Micronesia.
fuscula Wirth, 1952a: 204. USA (California).
fusistylata Tokunaga and Murachi, 1959: 392. Micronesia.
gallica Clastrier, 1991a: 305. France.
genitalis Lee, 1948c: 349. Australia (Tasmania).
gigantiforceps Clastrier, 1989a: 6. Guinea.
gracilis (Haliday), 1833: 152 (*Ceratopogon*). Great Britain.
dorsalis (Zetterstedt), 1850: 3644 (*Ceratopogon*). Sweden.
gressitti Tokunaga and Murachi, 1959: 372. Micronesia.
guianae (Macfie), 1940d: 28 (*Acanthohelea*). Guyana.
hirsuta Ingram and Macfie, 1931a: 201. Argentina.
illustris Das Gupta, Chaudhuri and Sanyal, 1971: 441. India.
impartheca Das Gupta, Chaudhuri and Sanyal, 1971: 443. India.
insigniforceps Clastrier, 1989a: 9. Guinea.
insolita Das Gupta and Wirth, 1968: 49. Malaysia.
kindiae Clastrier, 1988c: 121. Guinea.
kunashiri Remm, 1993: 186. Russia.
kutscheri Szadziewski, 1993: 637. Germany. Miocene.
lanceloti Macfie, 1937b: 78. Ethiopia.
latiforceps Tokunaga, *in* Tokunaga and Murachi, 1959: 386. Belau (USA).
setigera Tokunaga, *in* Tokunaga and Murachi, 1959: 387 (valid subspecies of *latiforceps*). Belau (USA).
latistyla Clastrier, 1989a: 10. Guinea.
latiunguis Clastrier, 1985e: 460. Guinea.
limai Wirth and Derron, 1976: 234. São Tomé and Principe.
longicornis Goetghebuer, 1934d: 193. Zaire.
longistyla Tokunaga, 1941a: 117. Micronesia.
lutacea Edwards, 1926a: 412. Great Britain.
lutea (Malloch), 1918a: 18 (*Hartomyia*). USA (Illinois).
mallochi Hoffman, 1924: 283. USA (New York).
luteola de Meillon, 1940: 460. South Africa.
maai Tokunaga, 1963a: 264. Indonesia.
macclurei Das Gupta and Wirth, 1968: 51. Malaysia.
magnitheca Das Gupta and Wirth, 1968: 52. Indonesia.
manaosensis Lane and Forattini, 1958: 205. Brazil.
miripes Das Gupta and Wirth, 1968: 54. Malaysia.
monticola Tokunaga, 1940b: 279. Japan.
natalensis de Meillon, 1939a: 20. South Africa.
nebulosa Tokunaga, 1963a: 252. Papua New Guinea.
nigerrima Ingram and Macfie, 1931a: 196. Argentina.
nigriapicalis Tokunaga, 1963a: 275. Papua New Guinea.
obesa Das Gupta and Wirth, 1968: 56. Indonesia.
obesigenitalis Das Gupta and Wirth, 1968: 58. Malaysia.
ochracea (Winnertz), 1852: 48 (*Ceratopogon*). Germany.
rufithorax Kieffer, 1919a: 84. Slovak Republic.
scutellata Goetghebuer, 1920: 111. Belgium.
ohakunei Ingram and Macfie, 1931b: 202. New Zealand.
okinawensis Tokunaga, 1962a: 211. Japan.
orientis de Meillon and Wirth, 1981b: 541. South Africa.
ornata Lane and Forattini, 1958: 206. Panama.
ornaticrus Ingram and Macfie, 1931a: 194. Chile.
ornatithorax Clastrier, 1988c: 128. Guinea.
ovitheca Das Gupta, Chaudhuri and Sanyal, 1971: 445. India.
pallidicornis Tokunaga and Murachi, 1959: 366. Belau (USA).
papillata Remm, 1980: 93. Tajikistan.

papuae Tokunaga, 1963a: 272. Papua New Guinea.
parvaeungulae Das Gupta and Wirth, 1968: 61. Malaysia.
parvitheca Das Gupta and Wirth, 1968: 59. Malaysia.
patagonica Ingram and Macfie, 1931a: 196. Argentina.
pessoni Neveu, 1977: 230. France.
postcervix Tokunaga, 1959: 303. Indonesia.
pruefferi Szadziewski, 1992a: 83. Algeria.
pruinosa (Kieffer), 1917a: 198 (*Acanthohelea*). Australia (New South Wales).
pseudoparvitheca Das Gupta, Chaudhuri and Sanyal, 1971: 447. India.
rava Ingram and Macfie, 1931a: 203. Chile.
reflexa Tokunaga, 1963a: 269. Papua New Guinea.
robusta Das Gupta and Wirth, 1968: 62. Malaysia.
royi Das Gupta, Chaudhuri and Sanyal, 1971: 447. India.
sahariensis Kieffer, 1923a: 681. Algeria.
aureola Clastrier, 1963: 49. Algeria.
samoana Edwards, 1928: 57. Western Samoa.
sanctibernardini Kieffer, 1917b: 308. Paraguay.
saxonica Szadziewski, 1993: 638. Germany. Miocene.
scutica Chaudhuri, Das Gupta and Sinharay, 1974: 47. India.
seguyi Clastrier, 1990: 399. Guinea.
setigeripes Tokunaga, 1963a: 268. Papua New Guinea.
setigeriscutellata Tokunaga and Murachi, 1959: 394. Micronesia.
similisegmenta Tokunaga, 1959: 306. Papua New Guinea.
simulator de Meillon, 1960: 408. Liberia.
singularis Clastrier, 1985e: 464. Guinea.
soror Johannsen, 1932: 432. Indonesia.
spadicicoxalis Tokunaga and Murachi, 1959: 396. Micronesia.
spadicitibialis Tokunaga and Murachi, 1959: 370. Micronesia.
speculae Macfie, 1934c: 284. Malaysia.
spinifemorata Tokunaga, 1963a: 262. Indonesia.
stonei Wirth, 1953a: 66. USA (Virginia).
subalba Das Gupta and Wirth, 1968: 64. Malaysia.
subnebulosa Das Gupta and Wirth, 1968: 38. Thailand.
subsoror Tokunaga, 1941a: 116. Micronesia.
subumbrosa Das Gupta, Chaudhuri and Sanyal, 1971: 449. India.
succinea Ingram and Macfie, 1931a: 200. Argentina.
succinea Szadziewski, 1993: 639 (preoccupied by *Stilobezzia succinea* Ingram and Macfie, 1931a). Germany. Miocene. To be renamed by Szadziewski (in prep.).
szadziewskii Chaudhuri and Das Gupta, 1991: 182. New name for *falcata*.
falcata Chaudhuri, Das Gupta and Sinharay, 1974: 48 (preoccupied by *Stilobezzia falcata* (Meunier), 1904a). India.
tasmaniensis Lee, 1948c: 347. Australia (Tasmania).
tenuiforceps Tokunaga and Murachi, 1959: 384. Belau (USA).
thibaulti Neveu, 1977: 226. France.
thyridofera Tokunaga, 1959: 304. Indonesia.
tibialis Lane and Forattini, 1956: 209. Panama.
tomensis Wirth and Derron, 1976: 236. São Tomé and Principe.
tonnoiri Macfie, 1932c: 43. New Zealand.
trilineata de Meillon and Wirth, 1983a: 365. South Africa.
trimaculata de Meillon and Wirth, 1987a: 57. South Africa.
truncata Tokunaga, *in* Tokunaga and Murachi, 1959: 389. Micronesia.
umbrosa Das Gupta, Chaudhuri and Sanyal, 1971: 452. India.
unicellula Clastrier, 1985e: 463. Guinea.
unifascidorsalis Tokunaga, *in* Tokunaga and Murachi, 1959: 379. Belau (USA).
vandeli Vattier and Adam, 1966b: 738. Congo.
varia Ingram and Macfie, 1931a: 191. Chile.
venefica Das Gupta and Wirth, 1968: 39. Thailand.
veterana (Meunier), 1920a: 897 (1920b: 1221) (*Tetragoneura*). Germany. Oligocene.
goetghebueri Statz, 1944: 148. Germany. Oligocene.
vittula Tokunaga, 1963a: 260. Papua New Guinea.
xanthogaster Das Gupta and Wirth, 1968: 65. Malaysia.

Subgenus DEBENHAMIA Wirth and Grogan

DEBENHAMIA Wirth and Grogan, 1988: 89 (as subgenus of *Stilobezzia*). Type species: *Stilobezzia collessi* Wirth and Grogan, by original designation.

collessi Wirth and Grogan, 1988: 91. Australia (New South Wales).
dycei Wirth and Grogan, 1988: 93. Australia (West Australia).

Subgenus EUKRAIOHELEA Ingram and Macfie

EUKRAIOHELEA Ingram and Macfie, 1921: 347. Type species: *Eukraiohelea africana* Ingram and Macfie, designation by Macfie, 1940f: 22.

africana (Ingram and Macfie), 1921: 347 (*Eukraiohelea*). Ghana.
amnigena (Macfie), 1935a: 56 (*Eukraiohelea*). Brazil.
brevicostalis Das Gupta and Wirth, 1968: 28. Malaysia.
clarifemorata Das Gupta and Wirth, 1968: 18. Malaysia.
dorsofasciata (Lutz), 1914: 96 (*Palpomyia*). Brazil.
elegantula (Johannsen), 1907: 109 (*Bezzia*). USA (Kansas).
maculitibia Lane and Forattini, 1956: 207. Panama.
foyi (Ingram and Macfie), 1922: 270 (*Eukraiohelea*). Nigeria.
fuscipes Das Gupta and Wirth, 1968: 20. Thailand.
fusciterga Das Gupta and Wirth, 1968: 22. Thailand.
minima Kieffer, 1918a: 100. India.
minuta Das Gupta and Wirth, 1968: 23. Thailand.
punctifemorata Das Gupta and Wirth, 1968: 25. Malaysia.
subsessilis Kieffer, 1917b: 311. Paraguay.
versicolor (Ingram and Macfie), 1921: 351 (*Eukraiohelea*). Ghana.

Subgenus STILOBEZZIA Kieffer

addita Clastrier, 1986b: 380. Zaire.
albicoxa Lane and Forattini, 1956: 210. Panama.
albocincta Kieffer, 1917b: 309. Paraguay.
americana Kieffer, 1917b: 310. Paraguay.
angustipennis Clastrier, 1988c: 125. Guinea.
antennalis (Coquillett), 1901a: 606 (*Ceratopogon*). USA (District of Columbia).
areolaris (Kieffer), 1911c: 345 (*Sphaeromias*). Seychelles.
atronitens Goetghebuer, 1933e: 148. Zaire.
basizonata Tokunaga, 1963a: 254. Indonesia.
bata de Meillon and Hardy, 1954: 62. Cameroon.
beckae Wirth, 1953a: 69. USA (Florida).
bicolor Lane, 1947a: 208. Brazil.
bimacula (Kieffer), 1910: 201 (*Palpomyia*). India.
bimaculata Lane and Forattini, 1956: 211. Panama.
bispinosa Kieffer, 1917b: 310. Paraguay.
bizonata Tokunaga, 1963a: 256. Papua New Guinea.
blantoni Lane and Forattini, 1956: 211. Panama.
boharti Tokunaga, 1962a: 211. Japan.
brevicornis Clastrier, 1988c: 130. Guinea.
browni Wirth and Giles, 1990: 454. Fiji.
bulla Thomsen, 1935: 289. USA (New York).
caribe Lane and Forattini, 1958: 208. Panama.
castanea Macfie, 1934c: 284 (1934d: 220). Malaysia.
chaconi Macfie, 1938: 166. Trinidad and Tobago.
chasteli Clastrier, 1967: 115. Cambodia.
punctivenosa Das Gupta and Wirth, 1968: 106. Thailand.
chlorosa Clastrier, 1986b: 364. New name for *viridis*.
viridis Goetghebuer, 1935d: 179 (preoccupied by *Stilobezzia viridis* (Coquillett), 1901a). Zaire.
claripennis Clastrier, 1958b: 243. Senegal.
claripes Das Gupta and Wirth, 1968: 128. South Korea.
tokunagai Das Gupta and Wirth, 1968: 131. Japan.
maihensis Remm, 1971: 209. Russia.
congestiterga Das Gupta and Wirth, 1968: 124. Malaysia.
coquilletti Kieffer, 1917b: 308. New name for *picta*.
picta (Coquillett), 1905: 60 (*Ceratopogon*,

preoccupied by *Sphaeromias pictus* (Meigen), 1818). USA (Virginia).

coracina Kieffer, 1917b: 311. Paraguay.

crassipes Kieffer, 1918a: 101. India.

crassistyla Das Gupta and Wirth, 1968: 125. Philippines.

crossi de Meillon and Wirth, 1981c: 591. South Africa.

debilipes Das Gupta and Wirth, 1968: 134. Malaysia.

decora Kieffer, 1916a: 89. Taiwan.

diminuta Lane and Forattini, 1958: 209. Panama.

distinctifasciata Das Gupta and Wirth, 1968: 135. Thailand.

diversa (Coquillett), 1901a: 607 (*Ceratopogon*). USA (New Jersey).

dryadum Macfie, 1940b: 186. Guyana.

dubitans Lane, Forattini and Rabello, 1955: 85. Brazil.

dureti Lane and Forattini, 1958: 210. Brazil.

ensistyla Chaudhuri, Das Gupta and Chatterjee, 1981: 149. India.

esmeralda Lane and Forattini, 1958: 211. Panama.

eximitarsis Das Gupta and Wirth, 1968: 115. Malaysia.

femoralis Lane and Forattini, 1956: 212. Panama.

festiva Kieffer, 1911a: 118. India.

scutellaris Kieffer, 1912c: 7 (as variety of *festiva*). Sri Lanka.

fiebrigi Kieffer, 1917b: 309. Paraguay.

filapenis Yu and Liu, 1991: 50. China.

flavipectoralis Remm, 1993: 187. Russia.

flavirostris (Winnertz), 1852: 52 (*Ceratopogon*). Germany.

albicornis Kieffer, 1919a: 84. Austria.

flavirostroides (Strobl), 1880: 64 (*Ceratopogon*). Austria.

lateralis (Waltl), 1837a: 279 (*Ceratopogon*, preoccupied by *Forcipomyia lateralis* (Bouché), 1834). Germany.

flavizonata Tokunaga, 1963a: 263. Indonesia.

fortipes Das Gupta and Wirth, 1968: 72. Malaysia.

gambiae Clastrier and Wirth, 1961a: 216. Gambia.

glauca Macfie, 1939c: 204. Brazil.

fluminensis Lane, 1947a: 210. Brazil.

grandis Lane and Forattini, 1958: 213. Panama.

hirta Borkent, in this work. New name for *pruinosa*.

pruinosa Wirth, 1952a: 203 (preoccupied by *Stilobezzia pruinosa* (Kieffer), 1917a). USA (California).

hirtaterga Yu, 1989a: 475. China.

hollandia Tokunaga, 1959: 299. Indonesia.

huberti Das Gupta and Wirth, 1968: 85. Malaysia.

imparungulae Das Gupta and Wirth, 1968: 136. Malaysia.

inermipes Kieffer, 1912c: 8. Sri Lanka.

lineata Kieffer, 1913d: 185. India.

biroi Kieffer, 1918a: 102. Singapore.

aberrans Johannsen, 1932: 431. Indonesia.

esakiana Tokunaga, 1940e: 183 (1940d: 155). Micronesia.

inusitata (Johannsen), 1946: 190 (*Eukraiohelea*). Guam (USA).

inkisiensis Clastrier, 1986b: 379. Zaire.

intermedia de Meillon, 1939a: 18. South Africa.

isthmostheca Das Gupta and Wirth, 1968: 116. Thailand.

kiefferi Lane, 1947a: 205. Brazil.

punctipes Wirth, 1953a: 79. USA (Florida).

kisantuensis Clastrier, 1986b: 369. Zaire.

lasioterga Das Gupta and Wirth, 1968: 126. Malaysia.

leucopeza Clastrier, 1958b: 249. Senegal.

limnophila Ingram and Macfie, 1922: 267. Ghana.

longiforceps Clastrier, 1960b: 274. Congo.

longihamata Tokunaga, 1963a: 258. Papua New Guinea.

macfiei Lane, 1947a: 213. Brazil.

maculata Lane, 1947a: 207. Brazil.

maculipes Macfie, 1933b: 103. French Polynesia (France).

mahensis Clastrier, 1983c: 76. Seychelles.

maia Lane and Forattini, 1958: 204. Panama.

modesta Lane, 1947a: 206. Brazil.

mutabilis Clastrier, 1986c: 63. Guinea.

nasicae de Meillon, 1959b: 9. Congo.

navaiae Wirth and Grogan, 1981: 86. USA (New York).

nigroflava Lane and Forattini, 1958: 215. Costa Rica.

notata (de Meijere), 1907: 210 (*Ceratopogon*). Indonesia.

nudisthmostheca Das Gupta and Wirth, 1968: 118. Sri Lanka.

nyei Clastrier, 1983c: 77. Seychelles.
obscura Lane and Forattini, 1958: 216. Panama.
oxiana Remm, 1980: 95. Tajikistan.
pallescens Lane and Forattini, 1958: 218. Panama.
pallidipes Clastrier, 1983c: 78. Seychelles.
pallidiventris (Malloch), 1915a: 344 (*Hartomyia*). USA (Illinois).
palpalis Tokunaga, 1963a: 255. Indonesia.
panamensis Lane and Forattini, 1958: 218. Panama.
parvula Goetghebuer, 1933e: 149. Zaire.
pastoriana Clastrier, 1986c: 66. Guinea.
paucimaculata Clastrier, 1984d: 46. Guinea.
paucipictipes Das Gupta and Wirth, 1968: 98. Indonesia.
pauliani de Meillon, 1961: 57. Madagascar.
paulistensis Lane, 1947a: 200. Brazil.
perspicua Johannsen, 1932: 433 (as variety of *notata*). Indonesia.
photophila Clastrier, 1984d: 43. Guinea.
pictipes Kieffer, 1917a: 191. Australia (New South Wales).
poikiloptera (Ingram and Macfie), 1922: 276 (*Parabezzia*). Ghana.
propristyla Das Gupta and Wirth, 1968: 129. Malaysia.
pseudofestiva Das Gupta and Wirth, 1968: 89. Thailand.
pseudonotata Das Gupta and Wirth, 1968: 91. Malaysia.
punctulata Lane, 1947a: 204. Brazil.
quatei Das Gupta and Wirth, 1968: 111. Viet Nam.
rabelloi Lane, 1947a: 203. Brazil.
rotunditheca Das Gupta and Wirth, 1968: 73. Malaysia.
rufa Kieffer, 1921b: 23. Cameroon.
rutshuruensis Clastrier, 1986b: 373. Zaire.
seychelleana Clastrier, 1983c: 79. Seychelles.
silvicola Macfie, 1940b: 185. Guyana.
similans Lane and Forattini, 1956: 214. Panama.
simplex Lane and Forattini, 1958: 222. Panama.
spinipes Das Gupta and Wirth, 1968: 74. Philippines.
spinitarsis Das Gupta and Wirth, 1968: 92. Malaysia.
spiniterga Das Gupta and Wirth, 1968: 119. Malaysia.
spirogyrae Carter, Ingram and Macfie, 1921a: 325. Ghana.
subfestiva Das Gupta and Wirth, 1968: 94. Thailand.
subflava Das Gupta and Wirth, 1968: 76. Malaysia.
subviridis Macfie, 1934d: 218. Indonesia.
esakii Tokunaga, 1940e: 183 (1940d: 155). Micronesia.
supernotata Das Gupta and Wirth, 1968: 95. Malaysia.
sybleae Wirth, 1953a: 82. USA (Virginia).
tauffliebi de Meillon, 1959b: 12. Congo.
tenebrosa Macfie, 1933b: 101. French Polynesia (France).
tenuicolorata Das Gupta and Wirth, 1968: 123. Malaysia.
tetragona Goetghebuer, 1934d: 193. Zaire.
thomsenae Wirth, 1953a: 83. USA (Florida).
scutata Lane and Forattini, 1961: 92. Panama.
transversa Lane and Forattini, 1958: 222. Panama.
traubi Das Gupta and Wirth, 1968: 77. Malaysia.
travassosi Lane, 1947a: 210. Brazil.
tropica Clastrier, 1958b: 247. Senegal.
unifasciata Tokunaga, 1963a: 262. Indonesia.
venezuelensis Ortiz, 1950d: 199 (as variety of *glauca*). Venezuela.
virescens Kieffer, 1919a: 84. Bulgaria.
viridis (Coquillett), 1901a: 607 (*Ceratopogon*). USA (New Jersey).
viridiventris (Kieffer), 1910: 203 (*Palpomyia*). Myanmar.
vittata Clastrier, 1960b: 276. Congo.
vulgaris Yu, 1989a: 478. China.
wirthi Lane and Forattini, 1956: 214. Panama.
wudangshanensis Yu and Liu, 1991: 47. China.
wygodzinskyi Lane, 1947a: 212. Brazil.
zonata Tokunaga, 1963c: 43. Japan.

Genus STILOCULICOIDES Wirth and Grogan

STILOCULICOIDES Wirth and Grogan, 1988: 95. Type species: *Stilobezzia ugandae* Ingram and Macfie, by original designation.

africanus Clastrier, 1993a: 134. Guinea.

congoensis Clastrier, 1993a: 139. Congo.
guineensis Clastrier, 1993a: 141. Guinea.
kindiae Clastrier, 1993a: 138. Guinea.
ugandae (Ingram and Macfie), 1923: 62 (*Stilobezzia*). Uganda.
vauclusensis Clastrier, 1993a: 141. France.

Genus WIRTHOHELEA Szadziewski

WIRTHOHELEA Szadziewski, 1988: 158. Type species: *Wirthohelea trifida* Szadziewski, by original designation.

trifida Szadziewski, 1988: 159. Poland. Eocene–Lower Oligocene.

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Genus CLINOHELEA Kieffer

CLINOHELEA Kieffer, 1917b: 295. Type species: *Ceratopogon variegatus* Winnertz (= *Ceratopogon unimaculata* Macquart), by original designation.

Subgenus CERATOBEZZIA Kieffer

CERATOBEZZIA Kieffer, 1917b: 326. Type species: *Ceratobezzia fallax* Kieffer, by original designation.

fallax Kieffer, 1917b: 326. Paraguay.
barrettoi Lane and Duret, 1954: 249. Brazil.

Subgenus CLINOHELEA

albopennis Lane, 1944: 259. Brazil.
argentina Lane and Duret, 1954: 248. Argentina.
bimaculata (Loew), 1861: 311 (*Ceratopogon*). USA (District of Columbia).
bisignata (Kieffer), 1910: 200 (*Palpomyia*). India.
curriei (Coquillett), 1905: 62 (*Ceratopogon*). Canada (British Columbia).
nebulosa (Malloch), 1915a: 322 (*Palpomyia*). USA (Michigan).
damascenoi Lane and Duret, 1954: 250. Brazil.
dimidiata (Adams), 1903: 27 (*Ceratopogon*). USA (Arizona).
dryas Debenham, 1974: 12. Australia (Queensland).
flagellata (Edwards), 1916: 500 (*Palpomyia*). Australia (North Australia).
fuscoalata Remm, 1993: 181. Russia.
hollandiae Tokunaga, 1966a: 111. Indonesia.
horacioi Lane, 1944: 257. Brazil.
hygropetrica Clastrier, 1983b: 19. Guinea.
insperata de Meillon and Wirth, 1981c: 592. South Africa.
lacustris Macfie, 1939a: 91. Uganda.
longipalpis Kieffer, 1918a: 96. Singapore.
longitheca Grogan and Wirth, 1975b: 286. USA (Florida).
muzoni Spinelli and Duret, 1993: 46. Colombia.
neivai Lane, 1944: 252. Brazil.
nigeriae (Ingram and Macfie), 1923: 68 (*Ceratobezzia*). Nigeria.
nigripes Macfie, 1939c: 205. Brazil.
nubifera (Coquillett), 1905: 61 (*Ceratopogon*). USA (Florida).
pachydactyla Kieffer, 1918a: 96. Singapore.
papuensis Tokunaga, 1966a: 109. Papua New Guinea.
podagrica Goetghebuer, 1948b: 17. Zaire.
pseudobisignata Saha and Das Gupta, 1996: 7. India.
pseudonubifera Grogan and Wirth, 1975b: 280. USA (Maryland).
rubriceps Kieffer, 1917b: 318. Paraguay.
saltanensis Lane and Duret, 1954: 252. Argentina.
tasmaniensis Lee, 1948d: 65. Australia (Tasmania).
tenuipes Tokunaga, 1966a: 110. Indonesia.
tenuissima (Kieffer), 1917a: 195 (*Sphaeromias*). Papua New Guinea.
townsendi Lane, 1944: 256. Brazil.
townesi Lane, 1944: 254. Brazil.
trimaculata Clastrier, 1983b: 24. Guinea.
unimaculata (Macquart), 1826: 178 (*Ceratopogon*). France.
maculipes (Meigen), 1830: 265 (*Ceratopogon*). Europe.
variegata (Winnertz), 1852: 59 (*Ceratopogon*). Germany.
usheri de Meillon, 1959b: 20. Mozambique.
usingeri Wirth, 1952a: 209. USA (California).
wygodzinskyi Lane, 1948: 231. Brazil.

Genus HETEROMYIA Say

HETEROMYIA Say, 1825: plate 35. Type species: *Heteromyia fasciata* Say, by monotypy.

PACHYLEPTUS Walker, 1856: 426. Type species: *Pachyleptus fasciatus* Walker (= *Heteromyia nigra* Kieffer), by monotypy.

antequerae (Lynch Arribalzaga), 1893: 227 (*Pachyleptus*). Argentina.
bejaranoi Duret and Lane, 1955: 36. Argentina.
castanea Lane, 1946a: 214. Brazil.
chaquensis Duret and Lane, 1955: 37. Argentina.
clavata Williston, 1900: 225. Mexico.
rufa Kieffer, 1917b: 325. Colombia.
caloptera Kieffer, 1919c: 192. New name for *rufa*.
correntina Duret and Lane, 1955: 39. Argentina.
dominicana Szadziewski and Grogan, 1997: 254. Dominican Republic. Eocene–Miocene.
fasciata Say, 1825: plate 35. North America.
festiva (Loew), 1861: 314 (*Ceratopogon*). USA (Pennsylvania).
kiefferi Lane, 1946a: 213. Brazil.
lamprogaster Edwards, 1933b: 87. Argentina.
nigra Kieffer, 1917b: 326. Paraguay.
fasciatus (Walker), 1856: 426 (*Pachyleptus*, preoccupied by *Heteromyia fasciata* Say, 1825). South America.
orellana (Roback), 1957: 1 (*Palpomyia*). Peru.
pratti Coquillett, 1902a: 88. USA (Virginia).
wokei Wirth and Grogan, 1977: 181. Nicaragua.

Genus MEDEOBEZZIA Yu

MEDEOBEZZIA Yu, 1995: 287. Type species: *Mediobezzia singularis* Yu, by monotypy.

singularis Yu, 1995: 287. China.

Genus METAHELEA Edwards

METAHELEA Edwards, 1929b: 12. Type species: *Metahelea metallescens* Edwards, by monotypy.

bifasciata (Kieffer), 1917a: 194 (*Palpomyia*). Australia (Queensland).
metallescens Edwards, 1929b: 12. Philippines.

Genus NEMOROMYIA Yu and Liu

NEMOROMYIA Yu and Liu, 1991: 25. Type species: *Nemoromyia nemorosa* Yu and Liu, by original designation.

nemorosa Yu and Liu, 1991: 26. China.

Genus PELLUCIDOMYIA Macfie

PELLUCIDOMYIA Macfie, 1939a: 99. Type species: *Pellucidomyia ugandae* Macfie, by original designation.
MACFIEHELEA Lane, 1946a: 208. Type species: *Macfiehelea oliveirai* Lane, by original designation.

blantoni (Lane), 1956b: 435 (*Macfiehelea*). Panama.
dycei Debenham, 1970a: 137. Australia (Queensland).
lanei Wirth and Ratanaworabhan, 1971b: 446. Colombia.
leei Wirth, 1960: 2. Australia (Queensland).
oliveirai (Lane), 1946a: 209 (*Macfiehelea*). Brazil.
sambulena (de Meillon), 1942c: 14 (*Bezzia*). Mozambique.
ugandae Macfie, 1939a: 100. Uganda.
wirthi (Lane), 1956b: 437 (*Macfiehelea*). Panama.

Genus PHYSOHELEA Grogan and Wirth

PHYSOHELEA Grogan and Wirth, 1979b: 53. Type species: *Neurohelea oedidactyla* Ingram and Macfie, by original designation.

obtusa (Meunier), 1904a: 235 (1904b: 246) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
cothurnatula (Meunier), 1904a: 231 (1904b: 242) (*Ceratopogon*). Baltic region. Eocene–Lower Oligocene.
oedidactyla (Ingram and Macfie), 1931a: 212 (*Neurohelea*). Argentina.
turgidipes (Ingram and Macfie), 1931a: 214 (*Neurohelea*). Chile.

Genus TETRABEZZIA Kieffer

TETRABEZZIA Kieffer, 1917b: 296. Type species: *Dibezzia spinigera* Kieffer, by original designation.

africana Clastrier, 1982a: 307. Guinea.
argentea Ingram and Macfie, 1923: 70. Nigeria.
diazi de Meillon, 1961: 55. Madagascar.
pictipennis (Kieffer), 1913d: 191 (*Dibezzia*). India.
soeiroi (de Meillon), 1942c: 16 (*Bezzia*). Mozambique.
spinigera (Kieffer), 1914c: 313 (*Dibezzia*). India.

TRIBE SPHAEROMIINI NEWMAN, 1834: 388

Genus AUSTROSPHAEROMIAS Spinelli

AUSTROSPHAEROMIAS Spinelli, 1997: 224. Type species: *Austrosphaeromias apricans* (Ingram and Macfie), by original designation.

apricans Ingram and Macfie, 1931a: 219. Argentina.
sentior Ingram and Macfie, 1931a: 222 (as variety of *apricans*). Chile.
wirthi Spinelli, 1997: 228. Argentina.

Genus CALYPTOPOGON Kieffer

CALYPTOPOGON Kieffer, 1910: 209. Type species: *Calyptopogon albitarsis* Kieffer (= *Macropeza gibbosus* Wiedemann), by monotypy.

brevitarsis Macfie, 1939d: 8. Thailand.
gibbosus (Wiedemann), 1824: 10 (*Macropeza*). Indonesia.
albitarsis Kieffer, 1910: 209. India.
kiefferi (Johannsen), 1927b: 423 (*Macropeza*). New name for *albitarsis*.
similis (Johannsen), 1927b: 424 (*Macropeza*). Taiwan.
javanensis (Kieffer), 1910: 210 (*Macropeza*). Indonesia.
edwardsi (Macfie), 1939d: 9 (*Macropeza*). Sri Lanka.
maithonensis Saha and Das Gupta, *in* Saha et al., 1995: 30. India.
mirus Sarkar and Das Gupta, *in* Saha et al., 1995: 32. India.
pseudoalbitarsis Sarkar and Das Gupta, *in* Saha et al., 1995: 31. India.

Genus CHELOHELEA Giles and Wirth

CHELOHELEA Giles and Wirth, 1985: 364. Type species: *Chelohelea comata* Giles and Wirth, by original designation.

comata Giles and Wirth, 1985: 365. Malaysia.

Genus CRISPOMYIA Debenham

CRISPOMYIA Debenham, 1974: 48. Type species: *Crispomyia receptaculum* Debenham, by original designation.

monacha Debenham, 1974: 52. Australia (West Australia).
receptaculum Debenham, 1974: 51. Australia (West Australia).

Genus DIBEZZIA Kieffer

DIBEZZIA Kieffer, 1911a: 120. Type species: *Dibezzia clavata* Kieffer, by original designation.

brevistila Kieffer, 1911a: 122. Bangladesh.
clavata Kieffer, 1911a: 120. India.
debenhamae Wirth and Ratanaworabhan, 1981a: 290. Malaysia.
gideoni de Meillon and Wirth, 1981c: 595. South Africa.

Genus GROGANHELEA Spinelli and Dippolito

GROGANHELEA Spinelli and Dippolito, *in* Spinelli et al., 1995: 166. Type species: *Groganhelea rondoniensis* Spinelli and Dippolito, by original designation.

rondoniensis Spinelli and Dippolito, *in* Spinelli et al., 1995: 167. Brazil.

Genus HEBETULA Wirth and Debenham

HEBETULA Wirth and Debenham, 1977: 282. Type species: *Mixohelea lemur* Debenham, by original designation.

armiger (Debenham), 1974: 20 (*Mixohelea*). Australia (Queensland).
atypipennis (Tokunaga), 1966a: 127 (*Palpomyia*). Indonesia.
bequaerti (Goetghebuer), 1933e: 151 (*Palpomyia*). Zaire.

bisulca (Debenham), 1974: 24 (*Mixohelea*). Australia (West Australia).
centonis (Debenham), 1974: 21 (*Mixohelea*). Australia (Queensland).
gladiator (Debenham), 1974: 23 (*Mixohelea*). Australia (Capital Territory).
hexacantha (Kieffer), 1911c: 343 (*Sphaeromias*). Seychelles.
imparunguis (Kieffer), 1917a: 194 (*Palpomyia*). Papua New Guinea.
australiensis (Kieffer), 1917b: 364 (*Mixohelea*). New name for *imparunguis* Kieffer.
infirmior (Debenham), 1974: 28 (*Mixohelea*). Australia (New South Wales).
latifrons (Debenham), 1974: 29 (*Mixohelea*). Australia (Queensland).
lemur (Debenham), 1974: 32 (*Mixohele*). Australia (West Australia).
lucta (Debenham), 1974: 31 (*Mixohelea*). Australia (New South Wales).
maai (Tokunaga), 1966a: 115 (*Xenohelea*). Indonesia.
matileorum Clastrier, 1985b: 268. New Caledonia (France).
muroides (Debenham), 1974: 30 (*Mixohelea*). Australia (New South Wales).
novaebritainica (Tokunaga), 1966a: 130 (*Palpomyia*). Papua New Guinea.
novaecaledoniae Clastrier, 1985b: 271. New Caledonia (France).
sarmensis (Tokunaga), 1966a: 116 (*Xenohelea*). Indonesia.
sensilis (Debenham), 1974: 27 (*Mixohelea*). Australia (New South Wales).
tonnoiri (Lee), 1948d: 66 (*Xenohelea*). Australia (Tasmania).
versicolor (Debenham), 1974: 35 (*Mixohelea*). Australia (West Australia).

Genus HOMOHELEA Kieffer

HOMOHELEA Kieffer, 1917b: 364. Type species: *Palpomyia abjuncta* Kieffer, designation by Macfie, 1940f: 26.
SCHIZODACTYLUS Ingram and Macfie, 1921: 353 (preoccupied by *Schizodactylus* Brullé, 1835). Type species: *Schizodactylus telmatoscopus* Ingram and Macfie, by monotypy.
ANKISTRODACTYLUS Ingram and Macfie, 1922: 272. New name for *Schizodactylus* Ingram and Macfie. Type species: *Schizodactylus telmatoscopus* Ingram and Macfie, automatic.
abjuncta (Kieffer), 1913d: 189 (*Palpomyia*). India.
albitudinis de Meillon and Wirth, 1981b: 543. South Africa.
barkudensis Edwards, 1932: 179. India.
delanoe (de Meillon), 1942b: 113 (*Palpomyia*). Zimbabwe.
diabola (de Meillon), 1961: 52 (*Sphaeromias*). Madagascar.
insons (Johannsen), 1932: 436 (*Sphaeromias*). Indonesia.
obscuripes (Macfie), 1934d: 225 (*Sphaeromias*). Indonesia.
kraussi (Tokunaga), *in* Tokunaga and Murachi, 1959: 415 (*Sphaeromias*). Guam (USA).
longicosta (Goetghebuer), 1933e: 150 (*Palpomyia*). Zaire.
melia de Meillon, 1943: 112. Zimbabwe.
stuckenbergi (de Meillon), 1961: 51 (*Sphaeromias*). Madagascar.
telmatoscopa (Ingram and Macfie), 1921: 353 (*Schizodactylus*). Ghana.

Genus INDOBEZZIA Das Gupta and Saha

INDOBEZZIA Das Gupta and Saha, 1995: 638. Type species: *Indobezzia nova* Das Gupta and Saha, by original designation.

nova Das Gupta and Saha, 1995: 638. India.
recens Das Gupta and Saha, 1995: 639. India.

Genus JENKINSHELEA Macfie

JENKINSIA Kieffer, 1913d: 165 (preoccupied by *Jenkinsia* Jordan and Evermann, 1896). Type species: *Jenkinsia setosipennis* Kieffer, by original designation.
JENKINSHELEA Macfie, 1934c: 177. New name for *Jenkinsia* Kieffer. Type species: *Jenkinsia setosipennis* Kieffer, automatic.

accraensis (Ingram and Macfie), 1923: 41 (*Jenkinsia*). Ghana.
albaria (Coquillett), 1895: 308 (*Ceratopogon*). USA (Florida).
aequalis (Malloch), 1915a: 336 (*Johannsenomyia*). USA (Illinois).

blantoni Grogan and Wirth, 1977b: 139. USA (Florida).
corea de Meillon, 1942b: 116. Zimbabwe.
distincta de Meillon and Wirth, 1983a: 367. South Africa.
djalonensis Clastrier, 1983a: 261. Guinea.
magnipennis (Johannsen), 1908: 268 (*Johannseniella*). USA (New York).
niphanae Grogan and Wirth, 1981b: 45. Thailand.
paliki Szadziewski, 1992b: 77. North Korea.
papuae Tokunaga, 1966a: 104. Papua New Guinea.
parsetosipennis Saha and Das Gupta, 1996: 8. India.
polyxenae de Meillon, 1936: 189. South Africa.
rhodesiensis de Meillon, 1937a: 261. Zimbabwe.
setosiforceps Grogan and Wirth, 1981b: 50. Malaysia.
setosipennis (Kieffer), 1913d: 165 (*Jenkinsia*). India.
stenoptera Remm, 1979a: 178. Turkmenistan.
stonei Grogan and Wirth, 1977b: 135. USA (Florida).
sudwalai de Meillon and Wirth, 1983a: 369. South Africa.
tokunagai Grogan and Wirth, 1981b: 49. Thailand.
trisensillata Clastrier, 1983a: 266. Guinea.

Genus JOHANNSENOMYIA Malloch

JOHANNSENOMYIA Malloch, 1915a: 332. Type species: *Johannsenomyia halteralis* Malloch (= *Ceratopogon argentata* Loew), designation by Wirth, 1952a: 211.
DICROHELEA Kieffer, 1917b: 363. Type species: *Palpomyia filicornis* Kieffer, designation by Macfie, 1940f: 26.

abdominalis (Tokunaga), 1966a: 120 (*Dicrohelea*). Papua New Guinea.
albidorsata (de Meillon), 1937b: 368 (*Dicrohelea*). South Africa.
angulosa de Meillon and Wirth, 1983a: 369. South Africa.
annulicornis Malloch, 1918b: 230. USA (Illinois).
argentata (Loew), 1861: 310 (*Ceratopogon*). USA (District of Columbia).
halteralis Malloch, 1915a: 338 USA (Illinois).
blantoni (Lane and Wirth), 1961: 81 (*Dicrohelea*). Panama.
ceylanica (Kieffer), 1912c: 6 (*Dibezzia*). Sri Lanka.
filicornis (Kieffer), 1910: 196 (*Palpomyia*). India.
filitarsis (Kieffer), 1910: 202 (*Palpomyia*). India.
grahami (Ingram and Macfie), 1923: 65 (*Palpomyia*). Nigeria.
imparunguis (Becker), 1903: 72 (*Ceratopogon*). Egypt.
inermicrus (Kieffer), 1913d: 186 (*Sphaeromias*). India.
interrupta (Kieffer), 1910: 199 (*Palpomyia*). India.
lalokiensis (Lee), 1948d: 69 (*Dicrohelea*). Papua New Guinea.
lanei Wirth, 1965a: 4. Brazil.
longistila (Kieffer), 1911a: 121 (*Dibezzia*). India.
maai (Tokunaga), 1966a: 122 (*Dicrohelea*). Indonesia.
nigeriae (Ingram and Macfie), 1923: 67 (*Palpomyia*). Nigeria.
nigra Goetghebuer, 1933e: 149. Zaire.
novaebrittanica (Tokunaga), 1966a: 118 (*Dicrohelea*). Papua New Guinea.
novaeguineae (Tokunaga), 1966a: 119 (*Dicrohelea*). Indonesia.
petersi (Tokunaga), 1966a: 151 (*Probezzia*). Papua New Guinea.
pseudoargentata Saha and Das Gupta, 1996: 9. India.
schoutedeni (Goetghebuer), 1933e: 150 (*Palpomyia*). Zaire.
scriba Debenham, 1974: 39. Papua New Guinea.
sejuncta (Kieffer), 1916a: 90 (*Sphaeromias*). Taiwan.
uncinata (Kieffer), 1916a: 91 (*Sphaeromias*). Taiwan.

Genus LANATOMYIA Debenham

LANATOMYIA Debenham, 1974: 43. Type species: *Lanatomyia miles* Debenham, by original designation.

dichroa (Edwards), 1933c: 253 (*Dicrohelea*). Malaysia. **NEW COMBINATION.**

electra Debenham, 1974: 46. Australia (Northern Territory).
miles Debenham, 1974: 44. Australia (Capital Territory).

Genus LANEHELEA Wirth and Blanton

LANEHELEA Wirth and Blanton, 1972a: 433. Type species: *Lanehelea leei* Wirth and Blanton, by original designation.

leei Wirth and Blanton, 1972a: 434. Colombia.
spinifemur Wirth and Blanton, 1972a: 436. Colombia.

Genus LEEHELEA Debenham

LEEHELEA Debenham, 1974: 54. Type species: *Homohelea hollandiensis* Tokunaga, by original designation.

hispida Debenham, 1974: 57. Australia (New South Wales).
hollandiensis (Tokunaga), 1966a: 123 (*Homohelea*). Indonesia.
leucophaeata Debenham, 1974: 60. Australia (Queensland).
punctipes (Macfie), 1934c: 287 (*Sphaeromias*). Malaysia.
wasselli Debenham, 1974: 58. Australia (Queensland).

Genus MACKERRASOMYIA Debenham

MACKERRASOMYIA Debenham, 1970b: 140. Type species: *Heteromyia brevibarba* Kieffer, by original designation.

brevibarba (Kieffer), 1917a: 192 (*Heteromyia*). Australia (Queensland).
caesia (Macfie), 1934c: 288 (1934d: 224) (*Palpomyia*). Malaysia.
indica (Kieffer), 1913d: 183 (*Heteromyia*). India.
magna (Das Gupta and Wirth), 1971: 880 (*Neosphaeromias*). Viet Nam.
marginata Debenham, 1970b: 143. Australia (Queensland).
wongsirii Wirth and Ratanaworabhan, 1981b: 404. Thailand.
zumpti de Meillon and Wirth, 1979a: 182. Zimbabwe.

Genus MACROPEZA Meigen

MACROPEZA Meigen, 1818: 87. Type species: *Macropeza albitarsis* Meigen, by monotypy.
MACROPTILUM Becker, 1903: 76. Type species: *Macroptilum nudum* Becker, by monotypy.
HAASIELLA Kieffer, 1913d: 190. Type species: *Haasiella semiflava* Kieffer, by original designation.

abonnenci (Clastrier), 1958c: 495 (*Bezzia*). Senegal.
aethiopica (Ingram and Macfie), 1923: 45 (*Macroptilum*). South Africa.
meeseri (de Meillon), 1936: 204 (*Macroptilum*). South Africa.
affinis Macfie, 1939d: 10. South Africa.
albitarsis Meigen, 1818: 87. Europe.
valvata (Winnertz), 1852: 72 (*Ceratopogon*). Germany.
bayeri (de Meillon), 1937b: 351 (*Macroptilum*). South Africa.
blantoni Wirth and Ratanaworabhan, 1972d: 216. USA (Florida).
calcipennis (Macfie), 1939d: 11 (*Macroptilum*). Sierra Leone.
capensis Macfie, 1939d: 10. South Africa.
fluviatilis (de Meillon), 1940: 463 (*Macroptilum*). South Africa.
geari de Meillon and Wirth, 1981b: 547. South Africa.
insignipennis (Macfie), 1939d: 11 (*Macroptilum*). Sierra Leone.
longipes (Séguy), 1931b: 645 (*Macroptilum*, as *Macroptylum*). Mozambique.
natalensis (de Meillon), 1937b: 355 (*Macroptilum*). South Africa.
navasi (Séguy), 1934: 10 (*Macroptilum*, as *Macroptylum*). Spain.
nigeriae (Ingram and Macfie), 1923: 43 (*Macroptilum*). Nigeria.
nigra (Séguy), 1931b: 646 (*Macroptilum*, as *Macroptylum*). Mozambique.
nuda (Becker), 1903: 77 (*Macroptilum*). Egypt.
pallidipes (Séguy), 1931b: 646 (*Macroptilum*, as *Macroptylum*). Madagascar.
pamunkeiana Knausenberger and Wirth, 1980: 128. USA (Virginia).
semiflava (Kieffer), 1913d: 190 (*Haasiella*). India.

senegalensis (Clastrier), 1958b: 239 (*Bezzia*). Senegal.
sibayae (de Meillon), 1936: 183 (*Bezzia*). South Africa.
stephensi (Ingram and Macfie), 1921: 369 (*Probezzia*). Ghana.

Genus MALLOCHOHELEA Wirth

MALLOCHOHELEA Wirth, 1962: 278. Type species: *Johannsenomyia albibasis* Malloch, by original designation.

aenipes (Macfie), 1940c: 193 (*Bezzia*). Guyana.
albibasis (Malloch), 1915b: 315 (*Johannsenomyia*). USA (Illinois).
albiclava (Kieffer), 1921g: 566 (*Dicrohelea*). Taiwan.
albihalter Wirth, 1962: 280. USA (Michigan).
alpina (Clastrier), 1962b: 282 (*Johannsenomyia*). Switzerland.
aspera Debenham, 1974: 88. Australia (Tasmania).
atripes Wirth, 1962: 281. USA (New Jersey).
aukurabis de Meillon and Wirth, 1983a: 371. South Africa.
australiensis (Lee), 1948d: 67 (*Johannsenomyia*). Australia (Capital Territory).
boettcheri (Edwards), 1929b: 11 (*Palpomyia*). Philippines.
borneana (Macfie), 1934c: 289 (*Palpomyia*). Malaysia. **NEW COMBINATION.**
caudellii (Coquillett), 1905: 63 (*Ceratopogon*). Canada (British Columbia).
errinae (de Meillon), 1940: 461 (*Palpomyia*). South Africa.
flavidula (Malloch), 1914a: 230 (*Johannseniella*). USA (Illinois).
fluminea de Meillon and Wirth, 1981b: 550. South Africa.
hamata de Meillon and Wirth, 1987a: 60. Madagascar.
hansfordi de Meillon and Wirth, 1983a: 372. South Africa.
hardyi (Tokunaga), 1966a: 139 (*Nilobezzia*). Papua New Guinea.
inermis (Kieffer), 1909b: 38 (*Johannseniella*). Germany.
kiefferi (Goetghebuer), 1921: 182 (*Johannsenomyia*). Belgium.
kirki (Macfie), 1939a: 92 (*Sphaeromias*). Kenya.
limitrofe Spinelli and Felippe-Bauer, 1990a: 37. Argentina.
luaboensis (de Meillon), 1959b: 3 (*Johannsenomyia*). Mozambique.
microcera (Kieffer), 1915c: 287 (*Palpomyia*). Denmark.
munda (Loew), 1864: 381 (*Ceratopogon*). Germany.
breviforceps (Kieffer), 1915c: 289 (*Palpomyia*). Denmark.
dentata (Kieffer), 1909b: 38 (*Johannseniella*). Germany.
nemoralis (Macfie), 1940c: 190 (*Johannsenomyia*). Guyana.
nigripes (Macfie), 1939c: 216 (*Johannsenomyia*). Brazil.
nitida (Macquart), 1826: 178 (*Ceratopogon*). France.
clavicornis (Kieffer), 1919a: 88 (*Sphaeromias*, as variety of *nitida*). Slovak Republic.
longiforceps (Kieffer), 1919a: 88 (*Sphaeromias*, as variety of *nitida*). Denmark.
prominens (Johannsen), 1932: 435 (*Johannsenomyia*). Indonesia.
pullata (Wirth), 1955a: 213 (*Johannsenomyia*). USA (California).
bicellii (Lane), 1961b: 449 (*Nilobezzia*). Brazil.
remota (Kieffer), 1919a: 87 (*Sphaeromias*, as variety of *nitida*). Slovak Republic.
bulgarica (Zilahi-Sebess), 1934: 157 (*Sphaeromias*, as variety of *nitida*). Bulgaria.
dimidiata (Kieffer), 1921a: 59 (*Sphaeromias*). France.
sabroskyi (Tokunaga), *in* Tokunaga and Murachi, 1959: 412 (*Palpomyia*). Belau (USA).
sanctaeluciae (de Meillon), 1937b: 365 (*Palpomyia*). South Africa.
satelles Debenham, 1974: 86. Australia (New South Wales).
scandinaviae (Clastrier), 1962b: 286 (*Johannsenomyia*). Norway.
senex Debenham, 1974: 89. Australia (Queensland).
setigera (Loew), 1864: 380 (*Ceratopogon*). Germany.
maihensis Remm, 1971: 209. Russia.

shibuyai (Tokunaga), 1940b: 277 (*Johannsenomyia*). Japan.
sidis (de Meillon), 1959b: 5 (*Johannsenomyia*). South Africa.
silvicola (Goetghebuer), 1920: 75 (*Johannsenomyia*). Belgium.
siricis (de Meillon), 1961: 50 (*Sphaeromias*). Madagascar.
smithi (Lewis), 1956: 47 (*Johannsenomyia*). USA (Connecticut).
spinipes Wirth, 1962: 282. USA (Georgia).
stygia Debenham, 1974: 85. New name for *nigra*.
nigra (Tokunaga), 1966a: 124 (*Johannsenomyia*, preoccupied by *Johannsenomyia nigra* Goetghebuer, 1933e). Papua New Guinea.
sybleae (Wirth), 1955a: 212 (*Johannsenomyia*). USA (California).
termophila (Spinelli), 1984: 197 (*Neobezzia*). Argentina.
texensis Wirth, 1962: 283. USA (Texas).
tianshanica Remm, 1980: 85. Kyrgyzstan.
tumidicornis Debenham, 1974: 87. Australia (Queensland).
turneri (Ingram and Macfie), 1923: 63 (*Sphaeromias*). South Africa.
unca de Meillon and Wirth, 1987a: 61. Kenya.
variegata Wirth, 1962: 283. USA (Michigan).
vernalis Remm, 1965: 185. Estonia.

Genus NEOBEZZIA Wirth and Ratanaworabhan

NEOBEZZIA Wirth and Ratanaworabhan, 1972a: 477. Type species: *Neobezzia clavipes* Wirth and Ratanaworabhan, by original designation.

albitarsis Wirth and Ratanaworabhan, 1972a: 478. Brazil.
amnicola (Macfie), 1940d: 30 (*Bezzia*). Guyana.
blantoni Wirth and Ratanaworabhan, 1972a: 482. Panama.
brasiliae (Lane), 1961a: 37 (*Macropeza*). Brazil.
clavipes Wirth and Ratanaworabhan, 1972a: 485. Brazil.
costaricae Wirth and Ratanaworabhan, 1972a: 486. Costa Rica.
fittkaui Wirth and Ratanaworabhan, 1972a: 489. Brazil.
wirthi Spinelli and Felippe-Bauer, 1990a: 88. Argentina.

Genus NEOSPHAEROMIAS Das Gupta and Wirth

NEOSPHAEROMIAS Das Gupta and Wirth, 1971: 875. Type species: *Neosphaeromias gibbus* Das Gupta and Wirth, by original designation.

afrotropicalis Clastrier, 1983a: 268. Guinea.
choriodes Grogan and Wirth, 1982: 198. Solomon Islands.
gibbus Das Gupta and Wirth, 1971: 877. Thailand.
niger Das Gupta and Wirth, 1971: 879. Sri Lanka.

Genus NILOBEZZIA Kieffer

NILOBEZZIA Kieffer, 1921b: 24. Type species: *Nilobezzia armata* Kieffer, by monotypy.
CRESPINIA Kieffer, 1923b: 141. Type species: *Crespinia brevipalpis* Kieffer, by monotypy.
PARROTIA Kieffer, 1923b: 140. Type species: *Parrotia flaviventris* Kieffer (= *Nilobezzia kiefferi* Wirth), by original designation.
SPHAEROBEZZIA Zilahi-Sebess, 1940: 108 (as subgenus of *Bezzia*). Type species: *Bezzia paradoxa* Zilahi-Sebess (= *Ceratopogon formosa* Loew), by monotypy.

acanthopus (de Meijere), 1907: 215 (*Ceratopogon*). Indonesia.
conspicua (Johannsen), 1932: 441 (*Bezzia*, as variety of *raphaelis*). Indonesia.
albipennis (Kieffer), 1911a: 124 (*Bezzia*, as variety of *nigricans*). India.
allotropica (Kieffer), 1913d: 193 (*Bezzia*). India.
aranea Debenham, 1974: 72. Australia (New South Wales).
arcuatipes (Kieffer), 1913d: 195 (*Bezzia*, as variety of *hamifera*). Indonesia.
armata Kieffer, 1921b: 24. Sudan.
albipennis Kieffer, 1921b: 25 (as variety of *armata*, preoccupied by *Nilobezzia albipennis* (Kieffer), 1911a). Sudan.
flaviventris Kieffer, 1921b: 25 (as variety

of *armata*, preoccupied by *Nilobezzia flaviventris* (Kieffer), 1910). Sudan.

badia (Johannsen), 1932: 442 (*Bezzia*, as variety of *flaviventris*). Indonesia.

bakeri (Kieffer), 1921g: 570 (*Probezzia*). Philippines.

basispinigera Debenham, 1974: 74. Australia (Queensland).

belligera (de Meillon), 1940: 459 (*Dicrobezzia*). South Africa.

brevicornis (Wirth), 1955a: 215 (*Sphaeromias*). USA (California).

brevipalpis (Kieffer), 1923b: 141 (*Crespinia*). Indonesia.

claripennis (Kieffer), 1916a: 97 (*Bezzia*). Taiwan.

curticornis (Kieffer), 1917a: 196 (*Bezzia*). Australia (New South Wales).

triquetrinotata Debenham, 1974: 64. Australia (New South Wales).

diffidens (Johannsen), 1932: 441 (*Bezzia*, as variety of *ochriventris*. Indonesia.

disjuncta (Kieffer), 1913d: 189 (*Palpomyia*). India.

facialis (Kieffer), 1910: 206 (*Bezzia*). India.

fijiensis Wirth and Giles, 1990: 456. Fiji.

flavida Remm, 1980: 86. Tajikistan.

flaviventris (Kieffer), 1910: 204 (*Bezzia*). Nepal.

formosa (Loew), 1869: 1 (*Ceratopogon*). Hungary.

paradoxa (Zilahi-Sebess), 1940: 108 (*Bezzia*). Hungary.

formosana (Kieffer), 1912a: 30 (*Bezzia*). Taiwan.

fusca Kieffer, 1921b: 25 (as variety of *armata*). Sudan.

fuscitarsus Debenham, 1974: 78. Australia (Queensland).

hamifera (Kieffer), 1913d: 194 (*Bezzia*). India.

henanei Clastrier, 1962a: 121. Algeria.

hunyani de Meillon, 1943: 111. Zimbabwe.

japana (Tokunaga), 1939a: 284 (*Bezzia*). Japan.

kerteszi (Kieffer), 1916a: 97 (*Bezzia*). Taiwan.

kiefferi Wirth, 1973: 383. New name for *flaviventris*.

flaviventris (Kieffer), 1923b: 140 (*Parrotia*, preoccupied by *Nilobezzia flaviventris* (Kieffer), 1910). Indonesia.

lacteipennis (Kieffer), 1910: 206 (*Bezzia*). India.

leucothrix Remm, 1980: 88. Turkmenistan.

maai Tokunaga, 1966a: 140. Indonesia.

mallochi Wirth, 1962: 284. USA (Michigan).

manicata Clastrier, 1958c: 500. Senegal.

minor (Wirth), 1955a: 216 (*Sphaeromias*). USA (California).

neotropica (Macfie), 1940a: 78 (*Bezzia*). Brazil.

nigra Sen and Das Gupta, 1958a: 69. India.

nigricans (Kieffer), 1910: 207 (*Bezzia*). India.

nigritibialis (Ingram and Macfie), 1921: 371 (*Dicrobezzia*). Ghana.

nilotica (Kieffer), 1925e: 263 (*Parrotia*). Egypt.

nipponensis (Tokunaga), 1939a: 287 (*Bezzia*). Japan.

ochriventris Edwards, 1929b: 12. Philippines.

paraensis (Lane), 1958: 33 (*Bezzia*). Brazil.

posticata (Zetterstedt), 1850: 3658 (*Ceratopogon*). Norway.

schineri (Kieffer), 1919a: 93 (*Palpomyia*). Austria.

grisea (Zilahi-Sebess), 1936b: 44 (*Sphaeromias*). Hungary.

raphaelis (Salm), 1917b: 135 (*Ceratopogon*). New name for *blanchardi*.

blanchardi (Salm), 1917a: 106 (*Ceratopogon*, preoccupied by *Ceratopogon blanchardi* Iches, 1906). Indonesia.

nigriventris (Kieffer), 1923b: 141 (*Parrotia*). Indonesia.

robusta (de Meillon), 1937b: 346 (*Bezzia*). South Africa.

capensis de Meillon and Hardy, 1954: 70. South Africa.

schwarzii (Coquillett), 1901a: 605 (*Ceratopogon*). USA (Texas).

setipes (Coquillett), 1905: 59 (*Ceratopogon*). USA (Texas).

banksi (Gerry), 1933: 94 (*Bezzia*). Cuba.

brasiliensis (Lane), 1958: 28 (*Bezzia*). Brazil.

scotti (Kieffer), 1911c: 348 (*Probezzia*). Seychelles.

longipennis (Kieffer), 1911c: 349 (*Probezzia*). Seychelles.

semirufa (Kieffer), 1922b: 161 (*Probezzia*). Taiwan.

setoensis (Tokunaga), 1939a: 286 (*Bezzia*). Japan.
simplicior Debenham, 1974: 77. Australia (New South Wales).
subtilicrinus Debenham, 1974: 80. Australia (Northern Territory).
vaga (Kieffer), 1911b: 329 (*Bezzia*). Nepal.
virago Debenham, 1974: 68. Australia (Northern Territory).
whartoni Lee, 1948b: 343. Papua New Guinea.
yasumatsui Wirth and Ratanaworabhan, 1981b: 409. Thailand.
zibanensis Clastrier, 1962a: 123. Algeria.

Genus NIPHANOHELEA Grogan and Wirth

NIPHANOHELEA Grogan and Wirth, 1981d: 201. Type species: *Niphanohelea bannae* Grogan and Wirth, by original designation.

bannae Grogan and Wirth, 1981d: 202. Thailand.

Genus PROBEZZIA Kieffer

PROBEZZIA Kieffer, 1906a: 57 (as subgenus of *Bezzia*). Type species: *Ceratopogon venustus* Meigen (= *Tipula seminigra* Panzer), designation by Coquillett, 1910: 594.
DICROBEZZIA Kieffer, 1919a: 127. Type species: *Ceratopogon venustus* Meigen (= *Tipula seminigra* Panzer), by original designation.

albitibia Wirth, 1971a: 732. USA (Virginia).
albiventris (Loew), 1861: 311 (*Ceratopogon*). USA (Georgia).
atriventris Wirth, 1951b: 31. USA (Michigan).
bottimeri Wirth, 1971a: 734. USA (Texas).
concinna (Meigen), 1818: 77 (*Ceratopogon*). Europe.
fairchildi Wirth, 1994b: 142. USA (Florida).
flavonigra (Coquillett), 1905: 60 (*Ceratopogon*). Canada (British Columbia).
fuscipennis Wirth, 1971a: 735. USA (Maine).
glicki Wirth, 1994b: 142. USA (Alabama).
infuscata Malloch, 1915b: 316. USA (Illinois).
jamnbacki Wirth, 1971a: 735. USA (Michigan).
ludoviciana Wirth, 1951b: 28. USA (Louisiana).
manshurica Remm, 1993: 180. Russia.
meadi Wirth, 1994b: 143. USA (Florida).
nigra Wirth, 1971a: 736. USA (Louisiana).
pallida Malloch, 1914b: 138. USA (Illinois).
rosewalli Wirth, 1951b: 32. USA (Louisiana).
sabroskyi Wirth, 1951b: 31. USA (Michigan).
seminigra (Panzer), 1798: plate 10 (*Tipula*). Germany.
munda (Loew), 1869: 3 (*Ceratopogon*, preoccupied by *Mallochohelea munda* (Loew), 1864). Europe.
venusta (Meigen), 1818: 78 (*Ceratopogon*). Austria.
inflata (Winnertz), 1852: 71 (*Ceratopogon*). Germany.
spinosidorsum Kieffer, 1921a: 61. Poland.
borealis (Clastrier), 1962a: 119 (*Bezzia*). Finland.
smithii (Coquillett), 1901a: 600 (*Ceratopogon*). USA (New Jersey).
sugiyama (Tokunaga), 1940b: 282 (*Dicrobezzia*). Japan.
unica (Johannsen), 1934: 345 (*Lasiobezzia*). USA (New York).
weemsi Wirth, 1994b: 143. USA (Florida).
williamsi Wirth, 1971a: 737. USA (Michigan).
wirthi Spinelli and Grogan, 1997: 230. USA (Florida).
xanthogaster (Kieffer), 1917b: 329 (*Bezzia*). New name for *elegans*.
elegans (Coquillett), 1901a: 599 (*Ceratopogon*, preoccupied by *Sphaeromias elegans* (Winnertz), 1852). USA (New Jersey).

Genus SPHAEROHELEA Spinelli and Felippe-Bauer

SPHAEROHELEA Spinelli and Felippe-Bauer, 1990b: 195. Type species: *Sphaerohelea biestroi* Spinelli and Felippe-Bauer, by original designation.

biestroi Spinelli and Felippe-Bauer, 1990b: 197. Argentina.

Genus SPHAEROMIAS Curtis

SPHAEROMIAS Curtis, 1829: plate 285. Type species: *Sphaeromias albomarginatus* Curtis (= *Ceratopogon fasciatus* Meigen), by original designation.

XYLOCRYPTA Kieffer, 1899: 69. Type species: *Ceratopogon fasciatus* Meigen, by original designation.

bifidus Wirth and Grogan, 1979: 893. USA (Maryland).

brevispinus (Kieffer), 1911a: 117 (*Palpomyia*). India.

cinereus (Kieffer), 1910: 197 (*Palpomyia*). India.

conjunctus Kieffer, 1916a: 93. Taiwan.

connexus Kieffer, 1916a: 92. Taiwan.

corsoni (Ingram and Macfie), 1924c: 182 (*Ankistrodactylus*). Ghana.

decoratus Debenham, 1974: 54. Australia (Queensland).

discolor (de Meijere), 1907: 214 (*Ceratopogon*). Indonesia.

javanensis Macfie, 1934c: 285. Indonesia.

distictus (Kieffer), 1911a: 115 (*Palpomyia*). India.

eugenei de Meillon and Wirth, 1987a: 62. Zimbabwe.

fasciatus (Meigen), 1804: 30 (*Ceratopogon*). Europe.

cingulatus (Meigen), 1804: 30 (*Ceratopogon*). Europe.

albomarginatus Curtis, 1829: plate 285. Great Britain.

procerus (Zetterstedt), 1855: 4867 (*Ceratopogon*). Sweden.

goetghebueri de Meijere, 1946: 9. Netherlands.

inermipes Kieffer, 1916b: 115. Taiwan.

inermithorax (Kieffer), 1918a: 99 (*Palpomyia*). Singapore.

litoraureus Ingram and Macfie, 1921: 359. Ghana.

longipennis (Loew), 1861: 313 (*Ceratopogon*). USA (Pennsylvania).

meeseri de Meillon, 1942a: 95. Zimbabwe.

miricornis (Kieffer), 1919a: 77 (*Xylocrypta*). Hungary.

candidatus (Loew), 1856: 23 (*Ceratopogon*, preoccupied by *Ceratopogon candidatus* Winnertz, 1852). Europe.

ocularis (Kieffer), 1924c: 397 (*Xylocrypta*). Germany

ornatipennis (Goetghebuer), 1933b: 113 (Sphaeromias). Russia.

nubeculosus (Tokunaga), 1941a: 100 (*Palpomyia*). China.

par (Ingram and Macfie), 1922: 272 (*Ankistrodactylus*). Ghana.

servilia de Meillon, 1943: 25. Mozambique.

photophilus (Kieffer), 1913d: 188 (*Palpomyia*). India.

pictipes (Kieffer), 1910: 199 (*Palpomyia*). India.

pictus (Meigen), 1818: 80 (*Ceratopogon*). Germany.

elegans (Winnertz), 1852: 58 (*Ceratopogon*). Poland.

copiosus (Kieffer), 1925a: 423 (*Xylocrypta*). Czech Republic.

pistiae (Ingram and Macfie), 1922: 274 (*Palpomyia*). Ghana.

sparus Borkent, in this work. New name for *punctata*.

punctatus (Meigen), 1830: 264 (*Ceratopogon*, preoccupied by *Culicoides punctatus* (Meigen), 1804). Europe.

spiniferus (Kieffer), 1916a: 94 (*Palpomyia*). Taiwan.

stictonotus Kieffer, 1911a: 118. India.

tetrastictus (Kieffer), 1911a: 116 (*Palpomyia*). India.

theileri de Meillon and Wirth, 1981b: 552. South Africa.

varipes Curtis, 1829: plate 285. Europe.

Genus XENOHELEA Kieffer

XENOHELEA Kieffer, 1917b: 295. Type species: *Xenohelea pruinosa* Kieffer, by original designation.

MIXOHELEA Kieffer, 1917b: 364. Type species: *Palpomyia pulchripes* Kieffer, designation by Wirth, 1973: 384.

albinervis (Kieffer), 1913d: 187 (*Palpomyia*). India.

ciliaticrus (Kieffer), 1921g: 568 (*Mixohelea*). Taiwan.

galatea de Meillon, 1942c: 23. Mozambique.

inaequalis (Kieffer), 1910: 200 (*Palpomyia*). India.

luteinervis (de Meijere), 1907: 214 (*Ceratopogon*). Indonesia.

nuansriae Wirth and Ratanaworabhan, 1981b: 411. Thailand.

polydora Macfie, 1934d: 226. Indonesia.
polysticta (Kieffer), 1911a: 117 (*Palpomyia*). India.
pruinosa Kieffer, 1917b: 295 (1918a: 96). India.
pulchripes (Kieffer), 1910: 198 (*Palpomyia*). India.
roseiventris (Kieffer), 1911a: 114 (*Palpomyia*). India.
rufiventris (Kieffer), 1910: 208 (*Bezzia*). India.
spinosipes (Goetghebuer), 1948b: 13 (*Palpomyia*). Zaire.

TRIBE PALPOMYIINI ENDERLEIN, 1936: 49

Genus AMEROHELEA Grogan and Wirth

AMEROHELEA Grogan and Wirth, 1981a: 1280. Type species: *Amerohelea galindoi* Grogan and Wirth, by original designation.

dalcyi Grogan and Wirth, 1981a: 1289. Brazil.
fasciata Grogan and Wirth, 1981a: 1283. Belize.
frontispina (Dow and Turner), 1976: 138 (*Bezzia*). USA (Texas).
galindoi Grogan and Wirth, 1981a: 1294. Colombia.
nelsoni Grogan and Wirth, 1981a: 1290. Brazil.
pseudofasciata Grogan and Wirth, 1981a: 1286. Brazil.
ronderosi Grogan and Wirth, 1981a: 1298. Colombia.
similis Spinelli, 1989: 27. Uruguay.
sordidipes (Macfie), 1939c: 209 (*Bezzia*). Brazil.
spinellii Grogan and Wirth, 1981a: 1292. Colombia.
vargasi Grogan and Wirth, 1981a: 1296. Belize.

Genus BEZZIA Kieffer

BEZZIA Kieffer, 1899: 69. Type species: *Ceratopogon ornatus* Meigen, by original designation.
PSEUDOBEZZIA Malloch, 1915a: 351. Type species: *Ceratopogon expolitus* Coquillett, by original designation.
ALLOBEZZIA Kieffer, 1917b: 296. Type species: *Ceratopogon expolitus* Coquillett, by original designation.
LASIOBEZZIA Kieffer, 1925d: 54. Type species: *Bezzia pilipennis* Lundström, by original designation.
HOMOBEZZIA Macfie, 1932b: 496. Type species: *Homobezzia nyasae* Macfie, by monotypy.
SIVABEZZIA Remm, 1974a: 440 (as subgenus of *Bezzia*). Type species: *Bezzia campanai* Clastrier, by original designation.
PYGOBEZZIA Remm, 1974a: 441 (as subgenus of *Bezzia*). Type species: *Bezzia strobli* Kieffer (= *Ceratopogon albicornis* Meigen), by original designation.
ASPINABEZZIA Dow and Turner, 1976: 122 (as subgenus of *Bezzia*). Type species: *Ceratopogon glaber* Coquillett, by original designation.

acuta Remm, 1974b: 891. Estonia.
adamsi Tokunaga and Murachi, 1959: 418. Micronesia.
aegyptia Kieffer, 1925e: 264. Egypt.
affinis (Staeger), 1839: 595 (*Ceratopogon*). Denmark.
africana Ingram and Macfie, 1923: 71. South Africa.
hopkinsi de Meillon and Hardy, 1954: 62. Cameroon.
aitkeni Spinelli and Wirth, 1991: 5. Brazil.
aklavikensis Wirth and Grogan, 1983: 495. Canada (Northwest Territories).
albicornis (Meigen), 1818: 74 (*Ceratopogon*). Europe.
pallidetarsata (Strobl), 1900: 171 (*Ceratopogon*). Spain.
strobli Kieffer, 1919a: 122. Serbia-Montenegro.
brevinervis Kieffer, 1919a: 122. Hungary.
atrata (Macfie), 1944a: 126 (*Homobezzia*). Egypt.
albidorsata Malloch, 1915a: 349. USA (Illinois).
albuquerquei Lane, 1961a: 43. Brazil.
aldanica Remm, 1974b: 893. Russia.
algeriana Clastrier, 1962a: 89. Algeria.
amana de Meillon and Wirth, 1981b: 554. South Africa.
ammossovi Remm, 1974b: 894. Russia.

analis Kieffer, 1913d: 196 (as variety of *gracilipes*). India.
andersonorum Wirth and Grogan, 1983: 497. USA (Maryland).
angulata Remm, 1974b: 900. Tajikistan.
annulipes (Meigen), 1830: 264 (*Ceratopogon*). Europe.
bidentata Kieffer, 1901a: 162. France.
fossicola Kieffer, 1912b: 102. Germany.
ploenensis Kieffer, 1921a: 62. Germany.
media Kieffer, 1925d: 126 (preoccupied by *Bezzia media* (Coquillett), 1904b). Belgium.
phragmitis Kieffer, 1925a: 428. Germany.
kyotoensis Tokunaga, 1939a: 282. Japan.
sicarti Clastrier, 1962a: 83. France.
apicata Malloch, 1914c: 284. USA (Illinois).
araucana Spinelli and Wirth, 1990: 14. Argentina.
armatipes Kieffer, 1910: 207. India.
atacina Clastrier, 1962a: 65. France.
atrifemorata Clastrier, 1962a: 69. France.
atripluma Kieffer, 1919a: 123. Hungary.
atrovittata Remm, 1972: 87. Russia.
australiensis Kieffer, 1917a: 197. Australia (New South Wales).
badiifemorata Tokunaga and Murachi, 1959: 419. Micronesia.
bargaensis Remm, 1974a: 436. Russia.
bengalensis Kieffer, 1913d: 196 (as variety of *gracilipes*). India.
biannulata Wirth, 1952a: 237. USA (California).
bicolor (Meigen), 1804: 31 (*Ceratopogon*). Europe.
typhae (Kieffer), 1919a: 130 (*Probezzia*). Czech Republic.
brehmiana (Kieffer), 1924a: 22 (*Probezzia*). Austria.
algarum (Zilahi-Sebess), 1930: 197 (*Probezzia*). Hungary.
rufithorax (Goetghebuer), 1933a: 287 (*Probezzia*). Germany.
copiosa (Thomsen), 1935: 292 (*Probezzia*). USA (New York).
bilineata Wirth, 1952a: 230. USA (California).
bivittata (Coquillett), 1905: 60 (*Ceratopogon*). USA (California).
blandiata Remm, 1967: 32. Azerbaijan.
blantoni Spinelli and Wirth, 1989b: 771. Honduras.
bohemica Kieffer, 1919a: 118. Czech Republic.
boiemica Kieffer, 1922e: 73 (as variety of *taeniata*). Czech Republic.
bresi Huttel and Huttel, 1951: 102. France.
brevicornis (Kieffer), 1917b: 328 (*Allobezzia*). Paraguay.
brevipluma Kieffer, 1919a: 121. Hungary, Croatia.
bromeliae Spinelli and Wirth, 1991: 9. Panama.
calceata (Walker), 1856: 239 (*Ceratopogon*). Great Britain.
trilobata Kieffer, 1922c: 237. Germany.
calcuttensis Kieffer, 1913d: 195. India.
campanai Clastrier, 1962a: 103. Algeria.
capitata Wirth and Grogan, 1983: 503. Honduras.
carioca Lane, 1958: 30. Brazil.
catarinensis Spinelli and Wirth, 1990: 17. Brazil.
cayoensis Spinelli and Wirth, 1991: 6. Belize.
chelistyla Wirth and Grogan, 1983: 504. USA (Arizona).
chrysolopha Kieffer, 1912a: 31. Taiwan.
clarkei Tokunaga and Murachi, 1959: 423. Micronesia.
clavipennis Spinelli and Wirth, 1989b: 775. Brazil.
cockerelli Malloch, 1915a: 346. USA (Colorado).
obscura (Malloch), 1915a: 355 (*Probezzia*). USA (New York).
collessi Wirth and Ratanaworabhan, 1981b: 415. Thailand.
conjunctivena Tokunaga, 1966a: 147. Papua New Guinea.
coracina (Zetterstedt), 1850: 3646 (*Ceratopogon*). Sweden.
albipes (Winnertz), 1852: 77 (*Ceratopogon*). Germany.
fusciclava Kieffer, 1919a: 121. Hungary.
corvina Remm, 1974b: 902. Russia.
curtiforceps Goetghebuer, 1929: 233 (1934a: 78). Belgium.
cyrtonotum Remm, 1974b: 898. Tajikistan.
decincta Edwards, 1932: 47. Great Britain.
demeilloni Haeselbarth, 1975: 368. Madagascar.
dentata Malloch, 1914c: 284. USA (Illinois).

dentifemur Spinelli and Wirth, 1991: 3. Colombia.
dessarti Haeselbarth, 1980: 656. Zaire.
dewulfi Goetghebuer, 1935d: 181. Zaire.
digramma Kieffer, 1925a: 428. Poland.
diversipes Clastrier, 1958c: 490. Senegal.
dividua Tokunaga, 1966a: 148. Indonesia.
dorsasetula Dow and Turner, 1976: 89. USA (New York).
downesi Dow and Turner, 1976: 93. USA (Maine).
echinata Clastrier, 1985a: 49. New Caledonia (France).
edwardsi de Meillon, 1938: 268. Mozambique.
elongata Zilahi-Sebess, 1940: 101. Hungary.
eocenica Szadziewski, 1988: 187. Poland. Eocene–Lower Oligocene.
excavata Tokunaga, 1966a: 145. Papua New Guinea.
exclamationis Kieffer, 1918a: 61. Tunisia.
exigua Goetghebuer, 1935a: 4. Belgium.
expolita (Coquillett), 1901a: 600 (*Ceratopogon*). USA (New Jersey).
johnsoni (Coquillett), 1901a: 600 (*Ceratopogon*). USA (New Jersey).
fairchildi Wirth, 1983b: 303. USA (Florida).
fascispinosa Clastrier, 1962a: 91. France.
sexstrigata Remm, 1971: 213. Russia.
longiradia Dow and Turner, 1976: 97. Canada (Ontario).
fenestrata Clastrier, 1962a: 86. France.
filiducta Spinelli and Wirth, 1991: 3. Colombia.
flava Tokunaga, 1939a: 292. Japan.
flavescens Kieffer, 1913d: 196 (as variety of *gracilipes*). India.
flavicornis (Staeger), 1839: 599 (*Ceratopogon*). Denmark.
flavipalpis (Winnertz), 1852: 80 (*Ceratopogon*). Germany.
flavipluma Kieffer, 1919a: 126. Slovak Republic.
spinifera Goetghebuer, 1920: 106. Belgium.
spinosula Clastrier, 1962a: 100. France.
flavicorporis de Meillon, 1939a: 22. South Africa.
flavipennis Tokunaga, 1939a: 290. Japan.
spinosa Tokunaga, 1940d: 161. Japan.
flavitarsis Malloch, 1914c: 283. USA (Illinois).
flavitibia Dow and Turner, 1976: 140. USA (New York).
flavoscutellaris Haeselbarth, 1975: 362. Zimbabwe.
flinti Spinelli and Wirth, 1989a: 113. Dominica.
fluminensis Lane, 1948: 236. Brazil.
foyi Ingram and Macfie, 1921: 361. Nigeria.
fuliginata Clastrier, 1962a: 116. Serbia-Montenegro.
fusca Spinelli and Wirth, 1991: 9. Colombia.
fuscifemoris Remm, 1971: 216. Russia.
gandavensis Goetghebuer, 1935a: 4. Belgium.
gibbera (Coquillett), 1905: 60 (*Ceratopogon*). Cuba.
gibberella Wirth and Grogan, 1983: 508. USA (Maryland).
glabra (Coquillett), 1902a: 85 (*Ceratopogon*). USA (Florida).
globulosa Spinelli and Wirth, 1990: 18. Puerto Rico (USA).
goianensis Lane, 1961a: 44. Brazil.
gracilipes (Winnertz), 1852: 72 (*Ceratopogon*). Germany.
gressitti Tokunaga, 1966a: 149. Papua New Guinea.
griseata Remm, 1972: 85. Russia.
griseipes Clastrier, Rioux and Descous, 1961: 85. Chad.
grogani Spinelli and Wirth, 1990: 19. Panama.
haroldi de Meillon and Wirth, 1987a: 66. South Africa.
hissarica Remm, 1974b: 891. Tajikistan.
hoggarensis Clastrier, 1962a: 81. Algeria.
hondurensis Spinelli and Wirth, 1990: 20. Honduras.
imbifida Dow and Turner, 1976: 38. USA (Maryland).
indecora Kieffer, 1912c: 8. Sri Lanka.
inflatifemora Tokunaga, 1966a: 141. Papua New Guinea.
insolita de Meillon and Wirth, 1983a: 376. South Africa.
insularis Kieffer, 1921g: 571. Taiwan.
jubata Spinelli and Wirth, 1990: 20. Colombia.
jamaicensis Spinelli and Wirth, 1989a: 115. Jamaica.
japonica Tokunaga, 1939a: 280. Japan.
suffusa Dow and Turner, 1976: 110. Canada (Manitoba).

kazlauskasi Remm, 1966: 67. Lithuania.
kempi Kieffer, 1913d: 197. India.
kiefferiana Goetghebuer, 1934a: 80. Germany.
kitaokai Tokunaga, 1963c: 46. Japan.
kuhetiensis Remm, 1967: 33. Azerbaijan.
kurensis Remm, 1967: 34. Azerbaijan.
laciniastyla Dow and Turner, 1976: 42. USA (Florida).
latipalpis Clastrier, 1962a: 106. Tunisia.
leei Spinelli and Wirth, 1990: 21. Colombia.
lenkoi Lane, 1958: 31. Brazil.
leucogaster (Zetterstedt), 1850: 3659 (*Ceratopogon*). Sweden.
xanthocephala Goetghebuer, 1911: 95. Belgium.
parvidens Kieffer, 1914a: 240. Sweden.
danica Kieffer, 1915c: 291. Denmark.
grisea Kieffer, 1919a: 119. Hungary.
brachycera Kieffer, 1919a: 119. Hungary.
belgica Kieffer, 1919a: 120. Belgium.
hungarica Zilahi-Sebess, 1930: 201. Hungary.
lewvanichae Wirth and Ratanaworabhan, 1981b: 422. Thailand.
longiforceps Tokunaga, 1959: 312. Indonesia.
longipennis Statz, 1944: 151. Germany. Oligocene.
longisaeta (Spataru), 1973: 287 (*Probezzia*). Romania.
lophophora Clastrier, 1988a: 58. Guinea.
lucida de Meillon, 1939a: 24. Zaire.
lutea Wirth and Ratanaworabhan, 1981b: 417. Thailand.
luteiventris Wirth and Grogan, 1983: 510. USA (Virginia).
maai Tokunaga, 1966a: 149. Indonesia.
maculifemorata Tokunaga and Murachi, 1959: 424. Micronesia.
magnisetula Dow and Turner, 1976: 46. Canada (Manitoba).
mallochi Wirth, 1951d: 323. USA (Virginia).
mathisi Spinelli and Wirth, 1989a: 117. Ecuador.
mazaruni Macfie, 1940c: 193. Guyana.
coloradensis Wirth, 1952a: 238. USA (California).
media (Coquillett), 1904b: 166 (*Ceratopogon*). USA (New Jersey).
megatheca Spinelli and Wirth, 1990: 22. Colombia.
melanesiae Clastrier, 1985a: 45. New Caledonia (France).
melanoflava Clastrier, 1958b: 235. Senegal.
melanoflavida Clastrier and Wirth, 1961a: 205. Nigeria.
mesotibialis Spinelli and Wirth, 1990: 23. Belize.
mexicana Spinelli and Wirth, 1991: 6. Mexico.
meyensis Vattier and Adam, 1966b: 748. Congo.
micronyx Kieffer, 1922b: 162. Taiwan.
crassistyla Tokunaga, 1966a: 143. Indonesia.
minuta Remm, 1974b: 895. Kyrgyzstan.
mohave Wirth and Grogan, 1983: 511. USA (California).
mollis Johannsen, 1932: 442. Indonesia.
monacantha Kieffer, 1925a: 427. Russia.
mongolica Remm, 1972: 88. Russia.
morvani Clastrier, 1962a: 95. Algeria.
multiannulata (Strobl), 1906: 400 (*Ceratopogon*). Spain.
multispinosa Clastrier, 1962a: 77. Algeria.
murina Kieffer, 1922b: 162. Taiwan.
murphyi Clastrier and Wirth, 1961a: 207. Gambia.
myrmedon (Kieffer), 1921g: 571 (*Probezzia*). Taiwan.
narynica Remm, 1973: 183. Kyrgyzstan.
nicator de Meillon, 1959b: 18. South Africa.
nigerrima Haeselbarth, 1965b: 9. South Africa.
nigrialula Tokunaga, *in* Tokunaga and Murachi, 1959: 428. Belau (USA).
nigriclava Kieffer, 1921g: 572. Taiwan.
nigripes Wirth and Grogan, 1983: 513. USA (Utah).
nigrita Clastrier, 1962a: 117. Norway.
nigritibialis Spinelli and Wirth, 1991: 5. Belize.
nigritula (Zetterstedt), 1838: 820 (*Ceratopogon*). Norway.
tenebricosa Goetghebuer, 1912: 208. Belgium.
atripes Zilahi-Sebess, 1940: 100. Hungary.
nigrofasciata Tokunaga, 1959: 429. Micronesia.
nigroflava Remm, 1974b: 891. Russia.
niokoloensis Clastrier, 1958c: 493. Senegal.
nobilis (Winnertz), 1852: 79 (*Ceratopogon*). Germany.

setulosa (Loew), 1861: 312 (*Ceratopogon*). USA (District of Columbia).
barberi (Coquillett), 1901a: 601 (*Ceratopogon*). USA (Maryland).
punctata Lundström, 1910: 42 (as variety of *leucogaster*). Finland.
leucosticta Kieffer, 1919a: 124. Russia.
cinerella Kieffer, 1919a: 124. Hungary.
armaticrus Kieffer, 1919a: 125. Hungary.
csikiana Kieffer, 1919a: 126. Russia.
chrysocoma Kieffer, 1922d: 355. Poland.
acanthodes Macfie, 1940c: 192. Guyana.
atlantica Wirth and Williams, 1957: 13. Bermuda (Great Britain).
nobiliformis Clastrier, 1962a: 74. France.

nodosipes Kieffer, 1924a: 22. Austria.
numidiana Clastrier, 1962a: 72. Algeria.
nyasae (Macfie), 1932b: 497 (*Homobezzia*). Malawi.
agathae de Meillon, 1940: 455. South Africa.
obelisca Dow and Turner, 1976: 104. USA (New York).
ornata (Meigen), 1830: 262 (*Ceratopogon*). Europe.
vittiger (Zetterstedt), 1850: 3642 (*Ceratopogon*). Sweden.
albosignata Kieffer, 1919a: 117. Hungary.
ornatissima (Kieffer), 1911c: 349 (*Probezzia*). Seychelles.
bipunctata (Kieffer), 1911c: 350 (*Probezzia*, as variety of *ornatissima*). Seychelles.
pachypyga Remm, 1974a: 441. Tajikistan.
pallidipes Clastrier and Wirth, 1961a: 209. Gambia.
palustris Clastrier, 1962a: 94. France.
papuae Tokunaga, 1966a: 150. Indonesia.
pediaureola Tokunaga and Murachi, 1959: 427. Micronesia.
perplexa Dow and Turner, 1976: 57. USA (Florida).
picipes Goetghebuer, 1948b: 17. Zaire.
pilipennis Lundström, 1916b: 674. Sweden.
pilosella Remm, 1974b: 896. Kazakhstan.
platyura (Macfie), 1947b: 77 (*Palpomyia*). Sudan.
dubia Clastrier, Rioux and Descous, 1961: 81. Chad.
prospicula Remm, 1974a: 435. Kyrgyzstan.
pruinosa (Coquillett), 1905: 59 (*Ceratopogon*). Canada (British Columbia).
modocensis Wirth, 1952a: 233. USA (California).
pseudobscura Wirth, 1951d: 324. USA (Virginia).
pseudogibbera Spinelli and Wirth, 1990: 23. Panama.
pseudovenustula Spinelli and Wirth, 1991: 8. Brazil.
pulchripes Kieffer, 1917b: 330. Paraguay.
pulverea (Coquillett), 1901a: 600 (*Ceratopogon*). USA (New Jersey).
punctipennis (Williston), 1896: 278 (*Ceratopogon*). St. Vincent.
pygmaea Goetghebuer, 1920: 100. Belgium.
raposoensis Spinelli and Wirth, 1991: 4. Colombia.
rhodesiensis Haeselbarth, 1975: 360. Zimbabwe.
rhynchostylata Remm, 1974b: 891. Russia.
riparia Clastrier, 1985a: 51. New Caledonia (France).
roldani Spinelli and Wirth, 1981: 187. Argentina.
rossii Clastrier, 1962a: 55. Algeria.
rufescens Remm, 1971: 213. Russia.
rufifascies Goetghebuer, 1932a: 126. Germany.
rufipes (Kieffer), 1911c: 347 (*Pachyleptus*). Seychelles.
femoralis (Kieffer), 1911c: 348 (*Pachyleptus*, as variety of *rufipes*). Seychelles.
sahariensis Clastrier, 1962a: 97. Algeria.
saileri Wirth, 1983a: 770. USA (Alaska).
sajana Remm, 1972: 89. Russia.
quadridens Remm, 1972: 89. Russia.
sandersoni Wirth and Grogan, 1983: 514. USA (Arizona).
schmitzorum Dippolito and Spinelli, *in* Dippolito et al., 1995: 54. Brazil.
segermanae Haeselbarth, 1975: 359. South Africa.
separata Kieffer, 1916a: 96. Taiwan.
serena Johannsen, 1932: 443. Indonesia.
sergenti Kieffer, 1922f: 515. Algeria.
setigera Spinelli and Wirth, 1990: 24. Colombia.
setosa Remm, 1974b: 892. Russia.
setosinotum Wirth and Grogan, 1983: 517. USA (Maryland).
sevanica Remm, 1974a: 438. Armenia.
sexspinosa Edwards, 1928: 57. American Samoa (USA).

signata (Meigen), 1804: 29 (*Ceratopogon*). Europe.
heusdensis Goetghebuer, 1935b: 414. Belgium.
sivashica Remm, *in* Remm and Zhogolev, 1968: 842. Ukraine.
snowi Lane, 1958: 34. Guatemala.
soikai (Harant, Huttel and Huttel), 1952: 12 (*Dicrobezzia*). Italy.
solstitialis (Winnertz), 1852: 78 (*Ceratopogon*). Europe.
circumdata (Staeger), 1839: 596 (*Ceratopogon*). Denmark.
hydrophila Kieffer, 1909b: 38 (1911d: 6). Germany.
sieberti Kieffer, 1921d: 277. Latvia.
aquatilis Goetghebuer, 1923: 105. Belgium.
stagnalis Kieffer, 1925d: 129 (as variety of *hydrophila*). Germany.
sordida Wirth, 1952a: 232. USA (California).
spathula Wirth and Grogan, 1983: 518. USA (Maryland).
spicata Dow and Turner, 1976: 77. USA (Florida).
spinosella Clastrier, 1983c: 21. Seychelles.
spinositibialis Tokunaga and Murachi, 1959: 421. Micronesia.
strigula Clastrier, 1962a: 68. France.
suavis Johannsen, 1932: 444. Indonesia.
subfusca Macfie, 1939c: 218. Brazil.
sulfureicruris Tokunaga and Murachi, 1959: 425. Micronesia.
tadsignata Remm, 1974b: 896. Tajikistan.
taeniata (Haliday), *in* Walker, 1856: 238 (*Ceratopogon*). Great Britain.
brehmii Kieffer, 1925d: 129. France.
tasmaniensis Lee, 1948b: 341. Australia (Tasmania).
texensis Wirth and Grogan, 1983: 519. USA (Texas).
tirawati Wirth and Ratanaworabhan, 1981b: 420. Thailand.
transitiva Remm, 1974a: 434. Russia.
trispinosa Kieffer, 1911a: 123. India.
tshernovskii Remm, 1993: 180. Armenia.
turkemica Glukhova, 1979: 163. Turkmenistan.
turrita de Meillon and Wirth, 1983a: 378. South Africa.
twinni Wirth, 1983a: 774. Canada (Manitoba).
umlalazia de Meillon, 1940: 457. South Africa.
uncistyla Dow and Turner, 1976: 80. USA (New Mexico).
unispina Dow and Turner, 1976: 114. USA (Alaska).
ussurica Glukhova, 1979: 167. Russia.
varia Haeselbarth, 1975: 368. Zimbabwe.
varicolor (Coquillett), 1902b: 84 (*Ceratopogon*). USA (New York).
venustula (Williston), 1896: 278 (*Ceratopogon*). St. Vincent.
concoloripes Macfie, 1940d: 31. Guyana.
vilbastei Remm, 1971: 215. Russia.
vitilevuensis Wirth and Giles, 1990: 458. Fiji.
vittata Tokunaga, 1966a: 146. Indonesia.
winnertziana Kieffer, 1919a: 113. New name for *gracilis*.
gracilis (Winnertz), 1852: 76 (*Ceratopogon*, preoccupied by *Stilobezzia gracilis* (Haliday), 1833). Germany.
wirthi Haeselbarth, 1965b: 10. Zimbabwe.
woodruffi Spinelli and Wirth, 1989a: 120. Jamaica.
xanthogaster (Kieffer), 1919a: 130 (*Probezzia*). Russia.
picticornis Kieffer, 1914a: 241. Germany.
yaeyama (Tokunaga), 1962a: 216 (*Nilobezzia*). Japan.
yasumatsui Wirth and Ratanaworabhan, 1981b: 424. Thailand.
zajantshkauskasi Remm, 1966: 68. Lithuania.
zonatipes Tokunaga, 1966a: 146. Indonesia.

Genus CLASTRIEROMYIA Spinelli and Grogan

CLASTRIEROMYIA Spinelli and Grogan, 1985: 330. Type species: *Clastrieromyia schnacki* Spinelli and Grogan, by original designation.

dycei Spinelli and Grogan, 1986: 456. Uruguay.
kremeri Spinelli and Grogan, 1985: 332. Brazil.
schnacki Spinelli and Grogan, 1985: 331. Ecuador.
uruguayensis Spinelli and Grogan, 1986: 458. Uruguay.

Genus PACHYHELEA Wirth

PACHYHELEA Wirth, 1959a: 50. Type species: *Ceratopogon magnus* Coquillett (= *Ceratopogon pachymerus* Williston), by original designation.

albidiventris (Kieffer), 1917b: 316 (*Sphaeromias*). Colombia.
pachymera (Williston), 1900: 224 (*Ceratopogon*). Mexico.
magna (Coquillett), 1905: 61 (*Ceratopogon*). USA (Texas).
latifemoris (Ingram and Macfie), 1931a: 231 (*Johannsenomyia*). Argentina.

Genus PALPOMYIA Meigen

PALPOMYIA Meigen, 1818: 82. Type species: *Ceratopogon flavipes* Meigen, by monotypy. Generic name first published in synonymy with *Ceratopogon* but available under ICZN Code Article 11(e).
APOGON Rondani, 1856: 175 (preoccupied by *Apogon* Lacepede, 1802). Type species: *Ceratopogon hortulanus* Meigen (= *Ceratopogon flavipes* Meigen), by original designation.
ALASION Rondani, 1857: 14. New name for *Apogon* Rondani. Type species: *Ceratopogon hortulanus* Meigen (= *Ceratopogon flavipes* Meigen), automatic.
GLUHHOVIA Remm, 1976a: 174 (as subgenus of *Palpomyia*). Type species: *Palpomyia miki* Goetghebuer, by original designation.
MIOPALPOMYIA Pierce, 1966: 95. Type species: *Miopalpomyia shilo* Pierce, by original designation.
NEOPALPOMYIA Pierce, 1966: 95. Type species: *Neopalpomyia freyi* Pierce, by original designation.
PARAPALPOMYIA Pierce, 1966: 97. Type species: *Parapalpomyia ryshkoffi* Pierce, by original designation.

abdominalis Kieffer, 1922b: 161 (as variety of *tainana*). Taiwan.

aculeata Ingram and Macfie, 1931a: 215. Chile.
afra Goetghebuer, 1948b: 14. Zaire.
albiditarsis Kieffer, 1910: 203. India.
albipennis Kieffer, 1901a: 163. France.
aldrichi (Malloch), 1915a: 326 (*Heteromyia*). USA (Idaho).
algeriana Clastrier, 1962b: 244. Algeria.
almeidai (Lane), 1946b: 219 (*Sphaeromias*). Brazil.
altispina Grogan and Wirth, 1975a: 32. USA (New York).
ancorifera Tokunaga, 1966a: 129. Papua New Guinea.
angustipennis Kieffer, 1919a: 105. Hungary.
aquilotibialis Borkent, in this work. New name for *nigrotibialis*.
nigrotibialis Remm, 1976a: 183 (preoccupied by *Palpomyia nigrotibialis* Goetghebuer, 1933d). Kyrgyzstan.
arenosa (Remm and Nasarmuchamedov), 1969: 54 (*Bezzia*). Uzbekistan.
arkitensis Remm, 1976a: 183. Kyrgyzstan.
armata Kieffer, 1921a: 60. France.
armatipes Wirth, 1952a: 222. USA (California).
armigera de Meillon and Downes, 1986: 177. South Africa.
armipes (Meigen), 1838: 20 (*Ceratopogon*). Germany.
erythrocephala (Staeger), 1839: 579 (*Ceratopogon*). Denmark.
rufipecta (Winnertz), 1852: 62 (*Ceratopogon*). Poland.
ashantii Ingram and Macfie, 1923: 64. Ghana.
aspina Grogan and Wirth, 1979a: 37. USA (Texas).
aterrima Goetghebuer, 1921: 183. Belgium.
atriclava Kieffer, 1921g: 569. Taiwan.
atricoxa Kieffer, 1919a: 110. Romania.
balozeti Clastrier, 1962b: 260. Algeria.
barrettoi Lane, 1947b: 442. Brazil.
basalis (Walker), 1848: 27 (*Ceratopogon*). Canada (Ontario).
trivialis (Loew), 1861: 309 (*Ceratopogon*). USA (District of Columbia).
tenuicornis (Malloch), 1915a: 328 (*Heteromyia*). USA (Wisconsin).
belkini Grogan and Wirth, 1979a: 72. USA (California).
bicolor Macfie, 1941: 67. South Africa.
bipicta Remm, 1976a: 175. Tajikistan.
bispinosa Kieffer, 1915c: 286. Denmark.
kiefferi Goetghebuer, 1934a: 69. New name for *bispinosa*.
boliviensis Kieffer, 1917b: 324. Bolivia.

bottimeri Grogan and Wirth, 1979a: 75. USA (Texas).
brachialis (Haliday), 1833: 152 (*Ceratopogon*). Great Britain.
longipennis Kieffer, 1919a: 104. Slovak Republic.
fusciclava Kieffer, 1919a: 109. Slovak Republic.
nemorivaga Goetghebuer, 1920: 84. Belgium.
brandti Tokunaga, 1966a: 138. Papua New Guinea.
brasiliensis Macfie, 1939c: 213. Brazil.
brevicornis Edwards, 1926a: 422. Great Britain.
brevipes Goetghebuer, 1948b: 14. Zaire.
burmae Kieffer, 1910: 196. Myanmar.
calcarata Edwards, 1929b: 10. Philippines.
calderana Storå, 1936: 37. Canary Islands (Spain).
callangana Kieffer, 1917b: 323. Peru.
canadensis Grogan and Wirth, 1979a: 109. USA (California).
cantuaris Ingram and Macfie, 1931b: 207. New Zealand.
carioca Lane, 1960: 384. Brazil.
carrerai (Lane), 1948: 235 (*Dicrobezzia*, as *carreirai*). Brazil.
castanea Macfie, 1939c: 211. Brazil.
castellana (Strobl), 1900: 170 (*Ceratopogon*). Spain.
catarinensis Lane, 1960: 385. Brazil.
chilensis Ingram and Macfie, 1931a: 218. Chile.
citrinipes Kieffer, 1922e: 72. Bosnia-Herzegovina.
columbiana Kieffer, 1917b: 323. Colombia.
concoloripes Clastrier, 1962b: 258. Norway.
conifera Macfie, 1939c: 214. Brazil.
coroicoensis Wirth, 1974: 54. New name for *boliviensis*.
boliviensis (Kieffer), 1917b: 331 (*Jenkinsia*, preoccupied by *Palpomyia boliviensis* Kieffer, 1917b). Bolivia.
craponnei Clastrier, 1962b: 242. France.
crassicrus Kieffer, 1917b: 321. Paraguay.
crassifemur Kieffer, 1918a: 98. Sri Lanka.
festiva Kieffer, 1918a: 99 (as variety of *crassifemur*). Sri Lanka.
crassinervis (de Meijere), 1907: 213 (*Ceratopogon*). Indonesia.
cressoni (Malloch), 1915a: 327 (*Heteromyia*). USA (Pennsylvania).
croatica Kieffer, 1919a: 99 (as variety of *serripes*). Slovak Republic, Romania, Hungary.
csikii Remm, 1981: 31. New name for *longicornis*.
longicornis Kieffer, 1919a: 107 (preoccupied by *Palpomyia longicornis* (Williston), 1896). Romania.
decima Lee, 1948d: 58. Australia (Tasmania).
distincta (Haliday), 1833: 152 (*Ceratopogon*). Great Britain.
ephippium (Zetterstedt), 1855: 4873 (*Ceratopogon*). Sweden.
rubra Kieffer, 1919a: 101. Romania.
flaviscutellum Kieffer, 1919a: 103. Romania.
ruficornis Goetghebuer, 1934c: 289 (as variety of *distincta*). Europe.
divisa Kieffer, 1916a: 94. Taiwan.
downesi Grogan and Wirth, 1979a: 112. Canada (Manitoba).
edwardsi Cockerell, 1921: 469. Great Britain. Oligocene.
elgoni Macfie, 1939a: 97. Kenya.
erikae Szadziewski, 1993: 642. Germany. Miocene.
fergana Remm, 1976a: 183. Kyrgyzstan.
flaviceps (Johannsen), 1908: 268 (*Johannseniella*). USA (New York).
opacithorax (Malloch), 1915a: 329 (*Heteromyia*). USA (Illinois).
hirta (Malloch), 1915a: 330 (*Heteromyia*). USA (Illinois).
flavipecta Kieffer, 1918a: 59. Tunisia.
flavipes (Meigen), 1804: 28 (*Ceratopogon*). Europe.
hortulana (Meigen), 1818: 81 (*Ceratopogon*). Europe.
semifumosa Goetghebuer, 1922: 58. Belgium.
mutabilis Clastrier, 1962b: 246. France.
flavitarsis (Meigen), 1838: 20 (*Ceratopogon*). Europe.
flavitibialis Santos Abreu, 1918: 325 (as variety of *flavipes*). Canary Islands (Spain).
flaviventris (Czerny and Strobl), 1909: 130 (*Ceratopogon*, as variety of *flavipes*). Spain.
floralis (Meigen), 1804: 27 (*Ceratopogon*). Europe.

freyi (Pierce), 1966: 95 (*Neopalpomyia*). USA (California). Miocene.
fulva (Macquart), 1826: 181 (*Ceratopogon*). France.
ferruginea (Meigen), 1830: 265 (*Ceratopogon*). Denmark.
parviforceps Kieffer, 1925d: 98. France.
fulvescens Kieffer, 1919a: 100. Romania.
fusca de Meillon, 1938: 266. Mozambique.
fuscipecta Kieffer, 1918a: 60. Tunisia.
atrimana Kieffer, 1918a: 60 (as variety of *fuscipectus*). Tunisia.
gilva de Meillon and Wirth, 1987a: 67. South Africa.
globulifera Remm, 1971: 211. Russia.
grossipes Goetghebuer, 1920: 88. Belgium.
guarani Lane, 1946b: 221. Brazil.
guyana Clastrier, 1992: 117. French Guiana.
hastata Grogan and Wirth, 1975a: 34. USA (New York).
helviscutellata Borkent, in this work. New name for *flavoscutellata*.
flavoscutellata (Strobl), 1900: 170 (*Ceratopogon*, as variety of *flavipes*, preoccupied by *Dasyhelea flavoscutellata* (Zetterstedt), 1850). Spain.
himalayae (Kieffer), 1911b: 328 (*Dibezzia*). India.
hispida Borkent, in this work. New name for *multispinosa*.
multispinosa Spinelli and Grogan, 1989: 6 (preoccupied by *Palpomyia multispinosa* (Pierce), 1966). El Salvador.
indistincta Remm, 1976a: 180. Russia.
indivisa Kieffer, 1916a: 95. Taiwan.
inermicollis Kieffer, 1917b: 323. Paraguay.
inflatifemoralis Tokunaga, 1966a: 131. Papua New Guinea.
infuscata Kieffer, 1919a: 104. Slovak Republic, Croatia.
insularis Spinelli and Grogan, 1989: 3. Puerto Rico (USA).
jamnbacki Grogan and Wirth, 1979a: 88. USA (New York).
jantari Szadziewski, 1988: 182. Poland. Eocene–Lower Oligocene.
jimmensis Tokunaga, 1966a: 126. Papua New Guinea.
johannseni (Lane), 1948: 233 (*Dicrobezzia*). Brazil.
johnstoni Macfie, 1939a: 96. Uganda.
jonesi Grogan and Wirth, 1975a: 17. USA (Wisconsin).
kernensis Wirth, 1952a: 223. USA (California).
kilembei Macfie, 1939a: 94. Uganda.
kirgizica Glukhova, 1979: 161. Kyrgyzstan.
korni Havelka, 1980: 89. Germany.
kurwana de Meillon and Wirth, 1987a: 69. South Africa.
kyotoensis Tokunaga, 1939a: 312. Japan.
lacorum Debenham, 1989: 250. New name for *abdominalis*.
abdominalis (Tokunaga), 1966a: 106 (*Heteromyia*, preoccupied by *Palpomyia abdominalis* Kieffer, 1922b). Indonesia.
lacteipennis Remm, 1976a: 183. Russia.
lacustris Lane, Forattini and Rabello, 1955: 83. Brazil.
laensis Tokunaga, 1966a: 134. Papua New Guinea.
lanceolifera Tokunaga, 1966a: 133. Papua New Guinea.
leucopogon Kieffer, 1911a: 114. India.
limnochares (Macfie), 1940a: 76 (*Sphaeromias*). Brazil.
lineata (Meigen), 1804: 30 (*Ceratopogon*). Europe.
cinerea (Macquart), 1826: 177 (*Ceratopogon*). France.
binotata (Staeger), 1839: 596 (*Ceratopogon*). Denmark.
slossonae (Coquillett), 1905: 61 (*Ceratopogon*). USA (New Hampshire).
algarum Kieffer, *in* Kieffer and Thienemann, 1908: 1. Germany.
winnertzi Kieffer, 1914a: 238. Germany.
illinoisensis Malloch, 1914a: 219. USA (Illinois).
octasema Kieffer, 1914a: 239. Germany.
spinosissima Kieffer, 1915c: 285. Denmark.
unifasciata Kieffer, 1922e: 72. Czech Republic.
murina Kieffer, 1925a: 426. Germany.
obesa Goetghebuer, 1927b: 94. Belgium.
nigrotibialis Goetghebuer, 1933d: 370 (as variety of *lineata*). Belgium.
pruinescens Thomsen, 1935: 290. USA (New York).
edwardsi de Meijere, 1946: 10 (preoccupied by *Palpomyia edwardsi* Cockerell, 1921). Netherlands.
stagnalis Clastrier, 1962b: 274. France.
linsleyi Wirth, 1952a: 224. USA (California).
longa Remm, 1976a: 189. Georgia.

lundstroemi Remm, 1981: 31. New name for *bispinosa*.
bispinosa Lundström, 1916a: 15 (preoccupied by *Palpomyia bispinosa* Kieffer, 1915c). Finland.
luteifemorata Edwards, 1926a: 419. Great Britain.
luteiventris Santos Abreu, 1918: 326 (as variety of *flavipes*). Canary Islands (Spain).
lutzi Lane, 1947b: 440. Brazil.
maai Tokunaga, 1966a: 132. Papua New Guinea.
macracantha Clastrier, 1962b: 252. France.
magali de Meillon and Wirth, 1981b: 557. South Africa.
magna Tokunaga, 1966a: 130. Papua New Guinea.
magnispinosa Clastrier, 1962b: 250. France.
manilensis Edwards, 1929b: 10. Philippines.
melacheira Remm, 1976a: 186. Russia.
mellichroa Macfie, 1939c: 212. Brazil.
micans Kieffer, 1918a: 61. Tunisia.
microchela Kieffer, 1917b: 321. Colombia.
miki Goetghebuer, 1934a: 91. Hungary.
montana Tokunaga, 1939a: 304. Japan.
monticola Tokunaga, 1939a: 306. Japan.
morenae (Strobl), 1900: 170 (*Ceratopogon*). Spain.
multispinosa (Pierce), 1966: 97 (*Neopalpomyia*). USA (California). Miocene.
namwambae Macfie, 1939a: 99. Uganda.
nana Zilahi-Sebess, 1934: 157. Bulgaria.
nelsoni Macfie, 1932c: 50. New Zealand.
nigricans Macfie, 1934c: 288. Malaysia.
nigridorsum Kieffer, 1919a: 111. Slovak Republic.
nigrina Clastrier, 1962b: 226. France.
nigripalpis Goetghebuer, 1934a: 91. Spain.
nigripecta Kieffer, 1919a: 108. Slovak Republic.
nigripes (Meigen), 1830: 265 (*Ceratopogon*). Europe.
pratensis (Meigen), 1830: 264 (*Ceratopogon*). Europe.
bryocrypta Kieffer, 1925a: 425. France.
nigritarsalis Remm, 1976a: 185. Kyrgyzstan.
nigrithorax de Meillon, 1929: 248. South Africa.
nigroflava Lane, 1947b: 446. Brazil.
nigroscutellata Lane, 1947b: 444. Brazil.
nitidissima Goetghebuer, 1948b: 15. Zaire.
novaeguineae Tokunaga, 1966a: 135. Papua New Guinea.
novaeirelandensis Tokunaga, 1966a: 135. Papua New Guinea.
novitibialis Grogan and Wirth, 1975a: 13. USA (New York).
obscurella Clastrier, 1962b: 256. France.
occidentalis Grogan and Wirth, 1979a: 115. USA (Utah).
oliffi de Meillon and Hardy, 1954: 72. South Africa.
oliveirai Lane, 1947b: 443. Brazil.
pacifica Remm, 1981: 31. New name for *aterrima*.
aterrima Kieffer, 1922b: 159 (preoccupied by *Palpomyia aterrima* Goetghebuer, 1921). Taiwan.
pallida (Tokunaga), 1966a: 107 (*Heteromyia*). Papua New Guinea.
pampana Lane, 1960: 386. Brazil.
panacantha Clastrier, 1962b: 270. France.
paraensis Lane, 1960: 387. Brazil.
patagonica Ingram and Macfie, 1931a: 222. Argentina.
paulistensis Lane, 1947b: 445. Brazil.
pendleburyi Edwards, 1933c: 254. Malaysia.
plebeja (Loew), 1861: 313 (*Ceratopogon*). USA (Pennsylvania).
plebeiella Grogan and Wirth, 1975a: 20. USA (New York).
polyacantha Clastrier, 1962b: 268. France.
portali Macfie, 1939a: 95. Uganda.
praeusta (Loew), 1869: 50 (*Ceratopogon*). Germany
apicalis (Strobl), 1898: 612 (*Ceratopogon*, as variety of *flavipes*, preoccupied by *Ceratopogon apicalis* Roser, 1840). Bosnia-Herzegovina.
terminalis Kieffer, 1919a: 103. Slovak Republic.
schineri Goetghebuer, 1920: 82 (as variety of *flavipes*, preoccupied by *Nilobezzia schineri* (Kieffer), 1919a). Belgium.
pruinulosa Remm, 1976a: 178. Georgia.
pseudolacustris Dippolito and Spinelli, *in* Dippolito et al., 1995: 55. Brazil.
pseudorufa Grogan and Wirth, 1975a: 26. USA (Maryland).
puberula Remm, 1976a: 196. Estonia.
quadrispinosa Goetghebuer, 1920: 83. Belgium.

quadristriata (Strobl), 1910: 263 (*Ceratopogon*). Austria.
raignieri Goetghebuer, 1931: 211. Belgium.
rastellifera Macfie, 1932c: 51. New Zealand.
remmi Havelka, 1974: 622. Germany.
reversa Remm, 1972: 83. Russia.
riedeli Szadziewski, 1988: 183. Poland. Eocene–Lower Oligocene.
riouxi Huttel and Huttel, 1951: 99. France.
rivularis Kieffer, 1911b: 328. India.
rossica Remm, 1965: 185. Russia.
rubiginosa Grogan and Wirth, 1975a: 22. USA (New York).
rufa (Loew), 1861: 314 (*Ceratopogon*). USA (Pennsylvania).
ruficrus Goetghebuer, 1948b: 15. Zaire.
rufipes (Meigen), 1818: 81 (*Ceratopogon*). Europe.
spinosior Kieffer, 1919a: 106. Slovak Republic, Hungary, Croatia.
pseudospinipes Goetghebuer, 1933b: 112. Russia.
plurispinosa Clastrier, 1962b: 265. France.
rutshuruensis Goetghebuer, 1948b: 15. Zaire.
ruwenzorii Macfie, 1939a: 98. Uganda.
ryshkoffi (Pierce), 1966: 98 (*Parapalpomyia*). USA (California). Miocene.
scabra (Coquillett), 1905: 62 (*Ceratopogon*). Mexico.
scalpellifera Grogan and Wirth, 1975a: 33. USA (New York).
schmidti Goetghebuer, 1934e: 36. Iraq.
semiermis Goetghebuer, 1914: 190. Belgium.
goetghebueri Kieffer, 1919a: 98. Belgium.
seneveti Clastrier, 1962b: 239. Algeria.
serraticauda Tokunaga, 1966a: 128. Papua New Guinea.
serripes (Meigen), 1818: 82 (*Ceratopogon*). Europe.
transfuga (Staeger), 1839: 598 (*Ceratopogon*). Denmark.
tarsata (Zetterstedt), 1855: 4874 (*Ceratopogon*). Sweden.
ruficeps Kieffer, 1918a: 59. Tunisia.
shilo (Pierce), 1966: 95 (*Miopalpomyia*). USA (California). Miocene.
sinanoensis Tokunaga, 1939a: 300. Japan.
singularis de Meillon, 1937b: 362. South Africa.
sordidipes Macfie, 1939c: 209. Brazil.
spinifemur (Lane), 1948: 234 (*Dicrobezzia*). Brazil.
spinipes (Meigen) *in* Panzer, 1806: plate 14 (*Ceratopogon*). Germany.
pubescens Kieffer, 1919a: 105. Slovak Republic.
crassipes Goetghebuer, 1920: 112. Belgium.
turfacea Kieffer, 1925b: 155. Russia.
spinosa Lutz, 1914: 93. Brazil.
spinulosa Goetghebuer, 1935d: 180. Zaire.
stella Tokunaga, 1966a: 136. Indonesia.
stonei Wirth, 1951d: 322. USA (Virginia).
subalpina Lee, 1948d: 59. Australia (Capital Territory).
subaspera (Coquillett), 1901a: 606 (*Ceratopogon*). USA (New Mexico).
maculicrus Ingram and Macfie, 1931a: 230. Argentina.
essigi Wirth, 1952a: 225. USA (California).
subfuscula Ingram and Macfie, 1931a: 216. Chile.
succincta (Meigen), 1818: 85 (*Ceratopogon*). Portugal.
succinea Szadziewski, 1988: 185. Denmark. Eocene–Lower Oligocene.
tainana Kieffer, 1912a: 29. Taiwan.
tamarica Remm, 1976a: 176. Kyrgyzstan.
tamioi Lane, 1960: 388. Brazil.
tanycornis Borkent, in this work. New name for *longicornis*.
longicornis (Williston), 1896: 280 (*Ceratopogon*, preoccupied by *Ceratopogon longicornis* Waltl, 1837a). St. Vincent.
tasmanica (Lee), 1948d: 62 (*Heteromyia*). Australia (Tasmania).
tauffliebi Vattier and Adam, 1966b: 762. Congo.
tenuicrus Kieffer, 1917b: 320. Paraguay.
terrea (Meigen), 1818: 85 (*Ceratopogon*). Germany.
oldenbergi Goetghebuer, 1932a: 127. Germany.
thomsoni Macfie, 1939a: 96. Uganda.
tibialis (Meigen), 1818: 82 (*Ceratopogon*). Austria.
atripecta Kieffer, 1919a: 101. Serbia-Montenegro.
laticollis Goetghebuer, 1922: 55. Belgium.
nipponica Tokunaga, 1939a: 297. Japan.
tinctipennis Kieffer, 1919a: 110. Romania, Slovak Republic.

obscuripennis Kieffer, 1919a: 110. Croatia.
adusta Kieffer, 1925a: 426. Germany.
nigritella Clastrier, 1962b: 255. France.
trifasciata Wirth, 1952a: 222. USA (California).
turanica Remm, 1976a: 176. Kazakhstan.
tuvae Remm, 1972: 84. Russia.
umbella Macfie, 1939c: 208. Brazil.
unca Hong, 1981: 58. China. Eocene.
urpicifemoris Macfie, 1932c: 52. New Zealand.
vallouisensis Clastrier, 1962b: 272. France.
variipila Kieffer, 1924b: 407. Germany.
venetiae Harant, Huttel and Huttel, 1952: 14. Italy.
verna de Meillon and Wirth, 1987a: 70. South Africa.
versicolor Macfie, 1939c: 215. Brazil.
vittata Clastrier, Rioux and Descous, 1961: 78. Chad.
walteri Grogan and Wirth, 1979a: 62. USA (West Virginia).
weemsi Grogan and Wirth, 1979a: 35. USA (Florida).
wirthi Lane, Forattini and Rabello, 1955: 82. Brazil.
wirthorum Szadziewski and Grogan, 1997: 257. Dominican Republic. Eocene–Miocene.
wittei Goetghebuer, 1948b: 14. Zaire.
xanthothorax Remm, 1976a: 180. Tajikistan.
yasumatsui Tokunaga, 1940d: 158. Japan.
zernyi Goetghebuer, 1934a: 92. Spain.

Genus PHAENOBEZZIA Haeselbarth

PHAENOBEZZIA Haeselbarth, 1965a: 297. Type species: *Probezzia pistiae* Ingram and Macfie, by original designation.

assimilis (Johannsen), 1932: 445 (*Bezzia*). Indonesia.
ateles (Macfie), 1940a: 78 (*Bezzia*). Brazil.
astyla Spinelli and Wirth, 1986: 232. Colombia.
beni de Meillon and Wirth, 1983a: 379. South Africa.
cinnae (de Meillon), 1936: 185 (*Palpomyia*). South Africa.
conspersa (Johannsen), 1932: 446 (*Bezzia*). Indonesia.
eucera (Kieffer), 1911a: 123 (*Bezzia*). India.
excisa (Clastrier), 1962a: 110 (*Bezzia*). Algeria.
fulvithorax (Malloch), 1915a: 354 (*Probezzia*). USA (Illinois).
griseipennis (Clastrier), 1958c: 498 (*Nilobezzia*). Senegal.
javana (Kieffer), 1923b: 142 (*Probezzia*). Indonesia.
lineola (Kieffer), 1910: 205 (*Bezzia*, as variety of *gracilipes*). India.
gracilipes (Kieffer), 1910: 205 (*Bezzia*, preoccupied by *Bezzia gracilipes* (Winnertz), 1852). India.
mashonensis (Ingram and Macfie), 1923: 73 (*Bezzia*). Zimbabwe.
maya Spinelli and Wirth, 1986: 234. Belize.
mellipes Wirth and Ratanaworabhan, 1981b: 427. Thailand.
minutistyla (Tokunaga), 1939a: 293 (*Bezzia*). Japan.
nzuari (Vattier and Adam), 1966b: 750 (*Probezzia*). Congo.
opaca (Loew), 1861: 312 (*Ceratopogon*). USA (District of Columbia).
incerta (Malloch), 1915a: 358 (*Probezzia*). USA (Illinois).
pajoti (Vattier and Adam), 1966b: 752 (*Probezzia*). Congo.
congolensis (Vattier and Adam), 1966b: 758 (*Nilobezzia*). Congo.
troglophila (Vattier and Adam), 1966b: 754 (*Nilobezzia*). Congo.
pistiae (Ingram and Macfie), 1921: 364 (*Probezzia*). Ghana.
probata (de Meillon), 1937b: 349 (*Bezzia*). South Africa.
rubiginosa (Winnertz), 1852: 72 (*Ceratopogon*). Germany.
glyceriae (Kieffer), 1913a: 9 (*Bezzia*). Germany.
nitidiventris (Goetghebuer), 1923: 104 (*Probezzia*). Belgium.
radialis (Goetghebuer), 1936: 323 (*Bezzia*). Belgium.
sabroskyi Wirth and Grogan, 1982: 189. USA (Maryland).
seychelleana (Kieffer), 1911c: 350 (*Probezzia*). Seychelles.
spekei (Macfie), 1939a: 101 (*Nilobezzia*). Uganda.
stuckenbergi Haeselbarth, 1965a: 308. South Africa.

tenuiforceps (Clastrier), 1962a: 109 (*Bezzia*). Algeria.
tropica (Clastrier and Wirth), 1961a: 212 (*Nilobezzia*). Gambia.
vacunae (de Meillon), 1936: 180 (*Bezzia*). South Africa.
wirthi Szadziewski and Grogan, 1997: 259. Dominican Republic. Eocene–Miocene.
zuluensis Haeselbarth, 1965a: 306. South Africa.

TRIBE STENOXENINI COQUILLETT, 1899: 61

Genus PARYPHOCONUS Enderlein

PARYPHOCONUS Enderlein, 1912: 57. Type species: *Paryphoconus angustipennis* Enderlein, by original designation.

aemulus Macfie, 1940b: 180. Guyana.
amapaensis Lane, 1961b: 450. Brazil.
angustipennis Enderlein, 1912: 57. Brazil.
anomalicornis Kieffer, 1917b: 333. Colombia and Paraguay.
apicalis Spinelli and Wirth, 1984b: 889. Ecuador.
barrettoi Lane, 1946a: 203. Brazil.
batesi Lane, 1961c: 455. Brazil.
brunneipennis Spinelli and Wirth, 1984b: 890. Brazil.
ecuadorensis Spinelli and Wirth, 1984b: 892. Ecuador.
enderleini Lane, 1956a: 301. Brazil.
fittkaui Spinelli and Wirth, 1984b: 892. Brazil.
flavidus (Johannsen), 1943: 761 (*Ceratobezzia*). Guyana.
lanei Wirth, 1959b: 236. Brazil.
flinti Spinelli and Wirth, 1984b: 894. Mexico.
fusciradialis Spinelli and Wirth, 1984b: 895. Brazil.
fuscus Lane, 1946a: 206. Brazil.
goianensis Lane, 1961c: 456. Brazil.
grandis Macfie, 1939d: 6. Brazil.
guianae Macfie, 1940b: 180. Guyana.
kiefferi Lane, 1956a: 302. Brazil.
latipennis Spinelli and Wirth, 1984b: 898. Colombia.
leei Spinelli and Wirth, 1984b: 898. Colombia.
macfiei Lane, 1946a: 203. Brazil.
maya Spinelli and Wirth, 1984b: 899. Belize.
mayeri Wirth, 1959b: 236. Brazil.
neotropicalis (Lane), 1948: 229 (*Macropeza*). Brazil.
nigripes Macfie, 1939d: 8. Argentina.
nubifer Macfie, 1939d: 5. Brazil.
oliveirai Lane, 1956a: 303. Brazil.
paranaensis Spinelli and Wirth, 1984b: 902. Argentina.
paulistensis Lane, 1961c: 457. Brazil.
sonorensis Wirth and Ratanaworabhan, 1972c: 1374. Mexico.
steineri Spinelli and Wirth, 1984b: 905. Peru.
subflavus Macfie, 1940d: 23. Guyana.
travassosi Lane, 1956a: 304. Brazil.
telmatophila (Macfie), 1940a: 77 (*Bezzia*). Brazil.
terminalis (Coquillett), 1904a: 90 (*Ceratopogon*). Nicaragua.
unimaculatus Macfie, 1940b: 179. Guyana.
wirthi Lane, 1961c: 458. Brazil.
wygodzinskyi Lane, 1946a: 208. Brazil.

Genus STENOXENUS Coquillett

STENOXENUS Coquillett, 1899: 61. Type species: *Stenoxenus johnsoni* Coquillett, by monotypy.

aductus Dippolito and Spinelli, *in* Dippolito et al., 1995: 56. Brazil.
arcuatus Wirth and Ratanaworabhan, 1972c: 1379. Panama.
blantoni Wirth and Ratanaworabhan, 1972c: 1379. Panama.
brasiliensis Macfie, 1939c: 140. Brazil.
carrerai Lane, 1956a: 305 (as *carreirai*). Brazil.
coomani Séguy, 1931a: 210. Viet Nam.
insigninervis Macfie, 1934c: 290. Malaysia.
dimorphus Kieffer, 1909a: 47. Peru.
excentricus Lane, 1961c: 453. Brazil.
fulvus Johannsen, 1927a: 70. Peru.
johnsoni Coquillett, 1899: 61. USA (New Jersey).
lanei Wirth and Ratanaworabhan, 1972c: 1381. Panama.
limpidus Wirth and Ratanaworabhan, 1972c: 1383. Costa Rica.
marginalis Wirth and Ratanaworabhan, 1972c: 1385. Panama.

niger Lane, 1948: 230. Brazil.
paraensis Lane, 1956a: 306. Brazil.
pastorianus Clastrier, 1982b: 293. Guinea.
pauliani Vattier and Adam, 1966b: 767. Congo.
setiger Macfie, 1939c: 138. Brazil.
stenopterus Wirth and Ratanaworabhan, 1972c: 1387. Philippines.
usutae de Meillon, 1959a: 355. South Africa.

Valid Taxa Unplaced in Ceratopogonidae

Genus ALAUTUNMYIA Borkent

ALAUTUNMYIA Borkent, 1996: 11. Type species: *Alautunmyia elongata* Borkent, by original designation.

elongata Borkent, 1996: 13. USA (New Jersey). Upper Cretaceous.

Genus ARCHICULICOIDES Szadziewski

ARCHICULICOIDES Szadziewski, 1996: 29. Type species: *Archiculicoides schleei* Szadziewski, by original designation.

schleei Szadziewski, 1996: 29. Lebanon. Lower Cretaceous.

Genus LEBANOCULICOIDES Szadziewski

LEBANOCULICOIDES Szadziewski, 1996: 30. Type species: *Lebanoculicoides mesozoicus* Szadziewski, by original designation.

mesozoicus Szadziewski, 1996: 30. Lebanon. Lower Cretaceous.

Unplaced Genera of Ceratopogoninae

DIDYMOPHLEPS Weyenbergh, 1883: 108. Type species: *Didymophleps hortorum* Weyenbergh, by monotypy.
NEOCULICOIDES Pierce, 1966: 93. Type species: *Neoculicoides jeanneae* Pierce, by original designation.
PARACULICOIDES Pierce, 1966: 94. Type species: *Paraculicoides rouseae* Pierce, by original designation.

Unplaced Species of Forcipomyiinae

Ceratopogon albipennis Meigen, 1818: 73. Germany.
Ceratopogon anomalus Macquart, 1826: 180. France.
Ceratopogon cantabricus Strobl, 1900: 169. Spain.
Ceratopogon annulatus Waltl, 1837b: 284. Germany.
Ceratopogon cypri Kieffer, 1918a: 86. Cyprus.
Ceratopogon koniae Kieffer, 1918a: 87. Turkey.
Ceratopogon leucopterus Meigen, 1804: 28. Germany.
Ceratopogon mediterraneus Kieffer, 1919a: 16. Greece.
Ceratopogon pallipes Meigen, 1818: 74. Germany.
Ceratopogon tristis Meigen, 1830: 263. Germany.
Didymophleps hortorum Weyenbergh, 1883: 110. Argentina.
Helea erronea Speiser, 1910: 741. France.

Unplaced Species of Ceratopogoninae

Ceratopogon escheri Giebel, 1856: 252. Baltic region. Eocene–Lower Oligocene.
Ceratopogon kamus de Meillon, 1959a: 340. South Africa.
Johannsenomyia hotchkissae Pierce, 1966: 94. USA (California). Miocene.
Johannsenomyia swinhoei Cockerell, 1919: 243. Myanmar. Oligocene.
Monohelea nigrita Goetghebuer, 1941: 288. Germany.
Neoculicoides jeanneae Pierce, 1966: 94. USA (California). Miocene.
Paraculicoides rouseae Pierce, 1966: 94. USA (California). Miocene.

Unplaced Species of Heteromyiini + Sphaeromiini + Palpomyiini + Stenoxenini

Ceratopogon apicalis Roser, 1840: 50. Europe.
Ceratopogon quadrimaculatus Strobl, 1906: 399. Spain.
Ceratopogon ruficornis Macquart, 1826: 178. France.

Ceratopogon succinotus Meigen, 1818: 85. Portugal.

Unplaced Species of Ceratopogonidae

Cecidomyia pennicornis Zetterstedt, 1850: 3696. Sweden.
Ceratopogon claripennis Lynch Arribalzaga, 1893: 229. Argentina.
Ceratopogon crassipalpis Meunier, 1912: 365. Madagascar. Holocene?
Ceratopogon longicornis Waltl, 1837a: 279. Germany.
Ceratopogon varipes Meigen, 1838: 18. Germany. **NEW SYNONYM.**
Ceratopogon madagascariensis Meunier, 1912: 365. Madagascar. Holocene?
Ceratopogon scutellatus Say, 1829: 150. USA (Indiana).
Ceratopogon tenuipes Meunier, 1912: 366. Madagascar. Holocene?
Ceratopogon barbipes Gimmerthal, 1846: 102. Latvia.
Ceratopogon nemorosus Meigen, 1804: 24. Germany.
Ceratopogon pusillus Holmgren, *in* Holmgren and Aurivillius, 1883: 182. Russia.
Ceratopogon univittatus Zetterstedt, 1838: 820. Sweden.
Ceratopogon viscatus Meunier, 1912: 364. Madagascar. Holocene?
Ceratopogon vittatus Wiedemann, 1817: 66. Germany.
Tipula subsultans Schrank, 1803: 77. Germany.

Species in Other Families Originally Considered to be Ceratopogonidae

Ceratopogon blanchardi Iches, 1906: 266. Undetermined Chironomidae.
Ceratopogon humeralis Zetterstedt, 1838: 820. Junior synonym of *Cricotopus ephippium* (Zetterstedt). Chironomidae.
Ceratopogon imperfectus Skuse, 1889: 307. A valid species of *Pseudosmittia* Goetghebuer. Chironomidae.
Ceratopogon pusio Zetterstedt, 1850: 3647. Undetermined Chironomidae.
Ceratopogon validinervis Zetterstedt, 1850: 3645. Junior synonym of *Mycetobia pallipes* (Meigen). Anisopodidae.

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INDEX OF TAXA

The following index gives an alphabetical listing of all genus-group and species-group names included in this catalog. Valid generic and subgeneric names are in boldface, valid species names are in Roman type, and both generic and species synonyms of valid names are in italics.

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