

**WORLD BLACKFLIES (DIPTERA: SIMULIIDAE): A  
COMPREHENSIVE REVISION OF THE TAXONOMIC AND  
GEOGRAPHICAL INVENTORY [2024]**

**Peter H. Adler**

Department of Plant and Environmental Sciences, Clemson University, Clemson, South Carolina  
29634-0310, USA  
**padler@clemson.edu**

The World Inventory is dedicated to its original architect, Roger W. Crosskey  
(1930–2017)<sup>1</sup>

2024

<sup>1</sup> <https://biotaxa.org/Zootaxa/article/view/zootaxa.4455.1.2>

# WORLD BLACKFLIES (DIPTERA: SIMULIIDAE): A COMPREHENSIVE REVISION OF THE TAXONOMIC AND GEOGRAPHICAL INVENTORY [2024]

Peter H. Adler

## Introduction to the 2024 Revision

The present revision of the Inventory of the world's Simuliidae continues the intent to provide yearly, fully updated electronic revisions of the World Inventory, which originally was issued in paper format by Crosskey (1988). The current revision, thus, includes all information known to have been published before 1 January 2024. The purpose and format of this inventory remain the same as for previous revisions.

Because each yearly update replaces previous web revisions, relevant portions of previous web-based revisions are retained. The Introduction to the 2008 revision and novel text from the Introductions to the 2009–2021 revisions, therefore, can be found before the References, which include literature from all revisions, beginning with 2008. Acknowledgments from previous revisions are combined and included before the References. All nomenclatural changes (e.g., new combinations and new synonyms) and all notes from previous web revisions have also been retained, beginning with 2008. These past changes and notes are summarized at the end of the “Notes for the current (2023 and 2024) inventory”. Table 1, which summarizes the numbers of formally named species in the genera and subgenera of the world Simuliidae, is updated annually.

In this most recent revision of the Inventory, 2,424 species (2,407 living and 17 fossil) are listed as valid (**Table 1**), representing a net increase of 6 living species in 2022, plus an additional 3 living species in 2023 for which no update to the Inventory was posted.

## Acknowledgments for the 2023 and 2024 Revision

**Note:** Acknowledgments for previous revisions are included in a cumulative list and yearly lists before the References (below).

I thank D. López Peña for discussion of erroneous old records of *S. maculatum* in Spain and for pointing out a literature record for *S. auricoma* in Switzerland, S. M. Smith for drawing my attention to several incorrect subsequent spellings, and D. Werner for providing samples (collected by O. Tauchmann) that yielded new distribution records.

## Explanatory information on the Inventory text

The explanatory information detailed here is drawn from the 2004 inventory of Crosskey & Howard, except where modified in subsequent years to reflect changes in the approach and updates to each inventory revision.

### (1) Taxonomic information

#### *Scope*

The Inventory covers nominal taxa of blackflies known to have been described before 1 January 2024. Fossil taxa are included if they are unequivocally Simuliidae, and their palaeontological status is highlighted by enclosure of the entries in square brackets; the geological period is included as part of the provenance data. The following fossils that have been associated with the Simuliidae are excluded on grounds that their assignment to the family is erroneous: *Liauningius robustus* (Lin, 1976) (Chironomidae), *Mesasimulium lahaigouense* Zhang, 1986 (family uncertain), *Pseudosimulium humidum* (Westwood in Brodie, 1845) (Rhagionidae), *Simulia pasithea* Heyden, 1870 (? Ceratopogonidae), *Simulia terribilis* Förster, 1891 (? Ceratopogonidae), *Simulidium priscum* Westwood, 1854 (Rhagionidae), *Simuliites brevirostris* (Kalugina, 1986) (Kaluginamyiidae), and *Simulium ? ventricum* Lin, Yao, Xiang & Xia, 1988 (family uncertain). Taxa designated in the literature informally, e.g., by letters, numbers, place names, chromosomal diagnostic features, etc., are recorded and are entered where appropriate in the text in light of present knowledge. However, the simuliid literature is enormous and there is no guarantee that every informal handle for a taxon has been unearthed. The literature is replete with cases where unidentifiable specimens have been given no particular handle and simply referred to as ‘sp.’ (e.g., ‘*Simulium* sp.’). No attempt has been made to record these or guess at the identities of species to which they might refer when there is no other information.

#### *Subspecies and complexes*

The subspecies category has not been widely used in the Simuliidae and when it has, the concept has usually borne little relation to the ‘Mayrian’ geographically based concept of a subspecies. Its main use has been in various works on the Palearctic fauna by I.A.

Rubtsov and summarised in Rubtsov & Yankovsky (1988). However, Yankovsky (1995) has since ceased to recognise these Rubtsovian subspecies as having separate validity and has disposed of most of them as straight synonyms. In the Inventory, no subspecies as such are listed, but names still sometimes applied to subspecies by a few authors in contemporary literature are indicated by suffixing the names with '(ssp.)' where they are listed in the appropriate species entry. It is now long established that some apparently single species (morphospecies) are complexes of biologically separate cryptic (sibling) species, these usually defined on chromosomal criteria and conveniently called cytospecies. Where a morphospecies is known to be such an aggregate of cryptic species the suffix '(complex)' has been given immediately following the valid species/author/date statement. In many such complexes the precise status of the constituents is often undetermined (i.e., they are not necessarily always of definite specific status) and they still lack formal scientific nomenclature. To deal with this situation, each such name based on chromosomal characterisation is suffixed with the inert term '(cytoform)'. This term is to be read as a non-committal umbrella for entities both of undetermined status (cytotypes) and of more or less completely definite species status (cytospecies). When reproductive isolation can be inferred from chromosomal data, the term 'cytospecies' is used. The equivalents 'molecular form' and 'morphoform' have been used for entities based, respectively, on gene sequences and hard-parts morphology but still only informally named.

### *Inventory format*

Scientific (Latinised) names entering into formal nomenclature are ranged to the left-hand margin if valid but indented if they are synonyms. Valid names are alphabetical, but synonyms are in chronological order to show their relative priorities. Vernacular 'names' are similarly ranged left, if on current knowledge, they could pertain to valid species but are indented if they are synonyms. Vernacularly named entities are listed chronologically (alphabetically within year) at the end of the appropriate entry, after the scientific names. Occasionally, when cyto-, molecular, or morphoforms have been more finely divided, the subdivisions are indented under the more inclusive form. For example, 'Kibwezi' is a cytoform of *S. damnosum*, which has been subdivided into two cytoforms, 'Kibwezi A1' and 'Kibwezi A2'. Similarly, when one form is known to be equivalent to another form, it is indented. For example, under *S. craigi*, the 'Cypress Hills' cytoform is considered equivalent to cytoform 'AF', which in turn is a subdivision of cytoform 'X', and under *S. arcticum* (complex), cytoform 'IIL-13' is equivalent to cytoform '3'. Taxonomic rank and validity or invalidity of names are distinguished by lettering style: generic and subgeneric names are in capitals (bold type when valid and lightface italics when synonyms), and specific names in lower case letters (bold type when valid and lightface italics when synonyms). In species-group headings, the specific name is highlighted by the use of capitals, e.g., 'ORNATUM species-group'. In the rare situation where a species appears to be 'good' but its name is at present technically invalid, that name is ranged left and printed in lightface italics to show that it cannot be validly used; see below under '*Homonyms*' where such cases refer to specific names that are unreplaced homonyms.

### *Nomenclature*

Spellings, authorship, dating, availability status, and other relevant aspects accord with the requirements of the current (fourth) edition of the *International Code of Zoological Nomenclature* published in 1999 and effective from 1 January 2000. In accordance with articles 31.2 and 34.2, the spellings of specific names conform to the gender of the generic names with which they are combined; the gender of the subgenus (if any) is not relevant.

*Nomenclatural annotations.* Appropriate annotations are given when necessary, for instance when a name as published is unavailable (e.g., a *nomen nudum* or proposed for a variety or form after 1960) or was published as a replacement name for a preoccupied (junior) homonym, or the name has the technical status of an incorrect original or incorrect subsequent spelling. Where a name has been the subject of an official Opinion of the International Commission on Zoological Nomenclature, the Opinion number is given accompanied where relevant by the word 'List' or 'Index', the former referring to the Official List of Specific Names in Zoology and the latter to the Official Index of Rejected and Invalid Names in Zoology. (There is one instance of 'Gen. List' (i.e., *Cnetha*), this referring to the Official List of Generic Names in Zoology.)

*Homonyms.* It is necessary to call attention to a terminological change for names used to replace preoccupied names (homonyms). When the 1997 Inventory was published, these names, following the provisions of the then current 3<sup>rd</sup> edition of the *International Code of Zoological Nomenclature*, were termed 'replacement names' or (if not in fact needed) 'unjustified replacement names'. Regrettably, a wholly unnecessary change was made in the 4<sup>th</sup> edition of the *Code* whereby replacement names (unless being published for the first time) are called 'substitute names' and those already made but not required are called 'unnecessary substitute names'. The appropriate change has been made to conform to the current *Code*, and the abbreviation 'subst.' will be found in place of 'repl.'.

*Type species.* The type species is shown that applies for each generic and subgeneric name (whether valid or in synonymy) and its mode of fixation stated. The authors of names of the type species are omitted since these are provided in the appropriate species entry. If the nominal type species is not now valid the present senior synonym is shown in addition, e.g., '*HELLICHTIA* Enderlein, 1925 (as genus). Type species: *macropyga*, as *latifrons*' indicates that *latifrons* was the cited type species when *Hellichia* was established but is now a junior synonym of *macropyga*.

*Changed combinations.* The author's name and year date of description are enclosed in parentheses (round brackets) whenever the species concerned is no longer in its original genus, i.e., when the current binomen (combination) differs from that of the original publication. This is to accord with *Code* Article 51.3. A point worth stressing here, since errors are still occurring in the

simuliid literature, is that transfer of a species from one *subgenus* to another without change of generic assignment does not constitute a new combination in the meaning of the *Code*.

*Dates.* The year date applicable to a zoological name is that on which the publication containing it was issued (distributed). This date usually agrees with that stated on or in the publication, but in some cases the date is later than (or even precedes) the stated date on the title page of the book or periodical part. When the actual date of issue can be found somewhere inside the publication (or in a list of issue dates specifically provided) but differs from the nominal date, the two dates are given in the form '1934 [1933]'; when the actual date of issue has been determined from outside the publication (e.g., from information provided by a publisher) the two dates are given in the form '[1988] [1987]'. In both cases the first date given is the correct one under the *Code* and should be cited for the taxon concerned. See *Code* recommendation 22A.2.3 relating to mode of citation.

*Specific names involving '-cola'.* There are several of these in the Simuliidae and there has been confusion concerning them. The suffix '-cola' is a noun in classical Latin (Stearn, 1995), but the New Latin adjectival derivatives '-colus' (masculine), '-cola' (feminine) and '-colum' (neuter) have a long pedigree in zoology and their use in nomenclature has never been prohibited by the International Commission on Zoological Nomenclature. The spelling is not subject to alteration where it was clearly originally used as a noun, e.g., *Simulium monticola* Friederichs (mountain-dweller, use of *-cola* with neuter generic name) but is subject to gender change when used as an adjective, e.g., *Eusimulium alticolum* Dyar & Shannon (dwelling high, spelling showing use as adjective in combination with neuter generic name). Thus, in the latter case, the original spelling *alticolum* is subject to mandatory change to *alticola* when combined with *Cnephia*, *Mayacnephia* or *Tlalocomyia* (all feminine). See also Brown (1956: 48).

*Varieties and forms described after 1960.* Under the *International Code of Zoological Nomenclature* (Articles 15.2 and 45.6.3), a name published for a 'variety' or 'form' after 1960 has no status in zoological nomenclature. It lies outside the provisions of the *Code*, is unavailable, and thus not a nominal taxon based upon type specimens. Such a name can become available by the action of the original author or some other later author if the entity is later treated as a subspecies or species (when it would enter into the purview of the *Code*). Not all authors publishing on Simuliidae since 1960 have noticed or observed this aspect of the *Code* and there are some names to be accounted for that come into this category. These are suitably annotated in the text. Fourteen of the names concerned (the majority) were published by Rubtsov for 'varieties' in 1962–1964 but only two of these have subsequently been made available. The others remain unavailable, though Yankovsky (1995) has listed them as if they are available nominal taxa and has cited for them 'holotypes' or 'lectotypes'. In fact, since the names are still unavailable (and likely to remain so) these putative primary types have no status as types. Rubtsov & Yankovsky (1988) listed the 'var.' names concerned in trinomial form but did not state that they intended by this to 'promote' the entities to subspecies rank, and Yankovsky (1995) has since disregarded the varietal names as mere synonyms of the species names concerned. The listing in trinomial form by Rubtsov & Yankovsky (1988), therefore, did not confer availability upon them.

*Incorrect original and subsequent spellings.* The simuliid literature is littered with incorrect spellings of taxon names. The intended names of most misspellings are obvious (e.g., *latimurco* for *latimucro*), but some are so corrupted that their intention has been lost (e.g., *aweia* for *aureum*, *squina* for *equinum*). Because of the electronic search capability afforded by the current inventory revision, I believe there is utility in listing all incorrect original and subsequent spellings that have been discovered in the primary literature, allowing the user to check the accuracy or intent of spelling variants in the literature against the correct spellings. However, by no means have all incorrect spellings been captured, and to attempt to do so would be an exercise in misplaced scholarship. Incorrect spellings are listed alphabetically after vernacular names and before misidentifications. Only a few misspellings of taxon names above the species are included, these being restricted to those of some importance. Incorrect spellings for theses, reports, and other documents in the 'gray' literature have not been recorded.

### *Misidentifications*

The history of simuliid taxonomy is marked by an enormous amount of misidentification, not because of the incompetence of its practitioners but because of the extraordinary similarity of many species, especially when their early stages are still unknown – and sometimes even when they are known. Much of this was long ago and it would be unrealistic and pointless (even if it were practicable) to attempt to capture every instance which bedevils the literature. Some misidentifications, however, have been serious and/or long persistent and still have some continuing potential for misunderstanding. Misidentifications are included, even if quite old, when their entry appears to be warranted in the interests of clarification. The included misidentifications are enclosed in square brackets and are given in the general form '[*hirtipes*: authors, not Meigen]' when the error occurs rather generally in the literature but in the more precise form '[*exiguum*: Dalmat, 1955, not Roubaud]' when the error pertains to, or originated in, an influential work of a certain date by a particular author; if several authors are responsible for misidentifications, they, with the dates of their works, are separated by a solidus (/). Where the misidentification involves important literature for a particular area, this is indicated by an appropriate addition, e.g., '[*mutata*: Japanese authors, not Malloch]'. Misidentifications are listed alphabetically at the end of a taxon entry.

### *Authors' names*

Several authors published under variant versions of their names. These names are standardized as follows: Baranov (not Baranoff); Coscarón-Arias (not Coscaron-Arias, Coscarón Arias); Ibáñez-Bernal (not Ibañez-Bernal, Ibañez Bernal), Kachvoryan (not Kachvorian); Krüger (not Krueger); Maia-Herzog (not Maia Herzog); Ramírez-Pérez (not Ramirez Perez, Ramírez Pérez); Rubtsov

(not Rubtzov, Rubzov, Rubzow); Sherban (not Serban, Şerban); Ya'cob (not Ya'Cob); Zivkovitch (not Zivkovic, Živković). 'De' versus 'de' has been standardized to 'De' even if an author has occasionally used the lower-case variant, hence for example De Meillon, De León. It proved impracticable, within the restraints of the format, to distinguish in a neat and uncluttered fashion between authors who happen to share the same surname, e.g., the Canadian specialist D.M. Davies and the British specialist L. Davies. Consequently, in common with usual catalogue and checklist procedure, the initials of 'duplicated' authors are omitted. (In practice the author(s) and year date given for any name will be sufficient to trace the original reference through the *Zoological Record*.)

## (2) Geographical information

### *Distribution*

For each species considered valid, the distribution is shown in the right-hand column by alphabetical listing of the countries from which it has been recorded. For large countries (e.g., Canada) and those spanning a wide range of environments (e.g., Chile), the first-level subdivisions (e.g., province or region) for which there are records are shown, with the type locality given first and followed by the other subdivisions in alphabetical order of their abbreviations (see list of Geographical abbreviations below). Countries for which occurrence of the species is insufficiently substantiated are listed at the end, each with a parenthetical query mark against the name. If a country record is definitely an error, this is shown by placing the country name in quote marks and within square brackets; e.g., the entries under *Simulium hirsutum* Pomeroy of '[Sierra Leone error]' and under *Simulium monticola* Friederichs of '[Britain error]' show that the published records of the species from those particular countries are now known to be wrong (i.e., based on misidentifications). Geographical distributions also are provided for distinct forms, especially those suspected of being valid species. However, if a form is equivalent to the nominal species under which it is listed, rather than being a subdivision within that nominal species, its distribution is not given.

Siberia is treated separately as if it is an individual country. The individuality of Siberia follows that established by Soós & Papp (eds.) in their *Catalogue of Palaearctic Diptera* (14 volumes, 1984–1994), where the eastern part of the old USSR (now Russian Federation) is distinguished from European Russia. This has much to commend it both on practical and faunistic grounds. Another departure from the strictly administrative basis concerns Labrador and Newfoundland, entries for the latter referring only to the island, and the mainland area (Labrador) being entered independently. Isolated archipelagos have been treated separately from the mother country of which they are part: thus, the Balearics and Canaries are treated independently of Spain, the Azores and Madeira independently of Portugal.

A word should be said about the 'negative' aspects of distribution, those areas for which there are no records for one or other of three reasons: (1) areas not adequately prospected where Simuliidae presumed to occur; (2) areas well prospected and with suitable lotic habitat but Simuliidae absent; (3) areas without trace of running water and Simuliidae absent. Some of the presently negative areas worth pinpointing are as follows. In the first category are the large countries of Cambodia, Laos, Mauritania and Western Sahara and the Andaman and Nicobar Islands (no records traced for any of these areas). In the second category are the Hawaiian Islands, Samoan Islands, Tristan da Cunha and Kerguelen; in the third category are the streamless calcareous islands such as Bahamas, Bermuda and Cayman Islands, and superabundant streamless coral islands and atolls of the Pacific and Indian Oceans (also the dead volcano of Ascension Island). The Falkland Islands (Malvinas) appear to be negative, but the streams have not been adequately surveyed.

### *Type locality*

For valid names the country of the type locality is given as the first entry in the geographical distribution statement, followed by a semicolon and augmented as appropriate by any first-level subdivisions given in parentheses. Where subdivisions within a country, or islands within an archipelago, are specified the first always pertains to the type locality and is given in unabbreviated form, e.g., 'USA (California, Ari, Kan, Neb, Nev, Texas)'. For synonyms, the type locality is given as a country entry in square brackets after the synonym name entry, amplified if appropriate by any first-level subdivisions in parentheses, e.g., '[Italy (Sicily)]' or '[Peru (Cuzco)]'. There are a few instances in which the type locality country cited in the Inventory differs from that given in the original species description, the reason being that the original type material is lost and a neotype has been designated from elsewhere. In such a case, the new type locality country is cited in the form 'Afghanistan [neotype]'.

### *Geographical abbreviations*

Country names are given in full but to condense the text, it has been necessary to abbreviate most names of first-level subdivisions (regions, provinces, states). The basic principle has been to give single-word names in full up to a limit of five letters, abbreviating thereafter. Initial capitals are used for multiple-word names such as New York or San Luis Potosi and usually the first consecutive two or three letters for longer single-word names (varied if necessary to deal with names that share the first few letters). The abbreviations are as follows:

**Argentina:** BA, Buenos Aires; Cat, Catamarca; Chu, Chubut, Cór, Córdoba; Cos, Corrientes; ER, Entre Rios; For, Formosa; LP, La Pampa; LR, La Rioja; Men, Mendoza; Mis, Misiones; Nqn, Neuquén; RN, Rio Negro; SDE, Santiago del Estero; SJ, San Juan; SL, San Luis; SC, Santa Cruz; SF, Sante Fe; TDF, Tierra del Fuego; Tuc, Tucumán.

*Note:* Isla de los Estados (Staten Island), part of the province of Tierra del Fuego, has been specified when appropriate.

**Australia:** ACT, Australian Capital Territory; NSW, New South Wales; NT, Northern Territory; Qld, Queensland; SA, South Australia; Tas, Tasmania; Vic, Victoria; WA, Western Australia.

**Brazil:** Amz, Amazonas; BFD, Brasilia Federal District; ES, Espirito Santo; Mar, Maranhão; MG, Minas Gerais; MGr, Matto Grosso; MGrS, Matto Grosso do Sul; Par, Paraná; Pba, Paraíba; Per, Pernambuco; RGN, Rio Grande do Norte; RGS, Rio Grande do Sul; RJ, Rio de Janeiro; Ron, Rondônia; Ror, Roraima; SC, Santa Catarina; SP, São Paulo; Toc, Tocantins.

**Britain:** CI, Channel Islands; En, England; Sc, Scotland; Wa, Wales.

*Note:* The numerous islands associated with mainland Britain are not specified in the distribution data except for one instance where the Shetland Islands are the type locality.

**Canada:** Alb, Alberta; BC, British Columbia; Lab, Labrador; Man, Manitoba; Nfld, Newfoundland; NB, New Brunswick; NS, Nova Scotia; Nun, Nunavut; NWT, Northwest Territories; Ont, Ontario; PEI, Prince Edward Island; Que, Quebec; Sask, Saskatchewan.

*Note:* Labrador and insular Newfoundland are separately listed for reasons given above. The Queen Charlotte Islands and islands of the Canadian Arctic for which there are records (Baffin, Banks, Southampton, and Victoria) are specified when appropriate. Vancouver Island has been specified within BC only when it is a type locality.

**Chile:** Ant, Antofagasta; Ara, Araucania; Ata, Atacama; BB, Bio-Bio; Coq, Coquimbo; LL, Los Lagos; Mag, Magallanes; O'H, O'Higgins; San, Santiago; Tar, Tarapacá; TDF, Tierra del Fuego; Val, Valparaiso.

*Note:* Chiloé and Navarino Islands have been specified within the appropriate province whenever applicable.

**China:** Be, Beijing; Fu, Fujian; Gd, Guangdong; Gu, Guizhou; He, Heilongjiang; HK, Hong Kong; IM, Inner Mongolia; Ji, Jiangsu; Jx, Jiangxi; Li, Liaoning; Qi, Qinghai; Sg, Shandong; Sh, Shanxi; Si, Sichuan; Sx, Shaanxi; Xi, Xinjiang; Yu, Yunnan; Zh, Zhejiang.

**India:** AP, Andhra Pradesh; ArP, Arunachal Pradesh; HP, Himachal Pradesh; Ka, Karnataka (old Mysore); Ke, Kerala; Ma, Maharashtra; Me, Meghalaya; MP, Madhya Pradesh; Mr, Manipur; Na, Nagaland; Pu, Punjab; Sik, Sikkim; TN, Tamil Nadu (old Madras); UP, Uttar Pradesh; WB, West Bengal.

**Japan:** Hok, Hokkaido; Hon, Honshu; Ky, Kyushu, NI, Nansei (= Ryukyu) Islands; Sh, Shikoku.

**Mexico:** Ag, Aguascalientes; Ca, Chihuahua; Ch, Chiapas; Cl, Coahuila; Co, Colima; Cp, Campeche; Du, Durango; FD, Federal District; GJ, Guanajuato; Gu, Guerrero; Hi, Hidalgo; Ja, Jalisco; Mi, Michoacan; Mo, Morelos; MS, Mexico State; Na, Nayarit; NL, Nuevo Leon; Ox, Oaxaca; Pu, Puebla; Si, Sinaloa; SLP, San Luis Potosi; So, Sonora; Ta, Tamaulipas; Tb, Tabasco; Vz, Veracruz; Za, Zacatecas.

**New Guinea:** PNG, Papua New Guinea.

*Note:* The islands of Bougainville, Mussau, New Britain and New Ireland, all administratively parts of Papua New Guinea, are specified when appropriate.

**Peru:** Anc, Ancash; Apu, Apurimac; Are, Arequipa; Huá, Huánuco.

**Russia:** CR, Central Russia; KM, Karelia-Murmansk; NR, Northern Russia; SR, Southern Russia.

*Note:* The latitudinal division of European Russia into northern, central, and southern areas follows the system used by Soós & Papp (1984–1994). On this system the northern area lies north of (approximately) 60° north latitude, the central area between 60° and 50°, and the southern area south of 50° (limited by the Caucasus and Kazakhstan). Karelia-Murmansk, with a fauna much like that of Fennoscandia, is specified separately.

**Siberia:** ES, Eastern Siberia; FE, Far East; WS, Western Siberia.

*Note:* The longitudinal division of Siberia into three regions follows the system used by Soós & Papp (1984–1994): West Siberia extends from the Urals to the Yenisei River, East Siberia from the Yenisei River to the border of the Magadan and Khabarovsk regions, and the Far East from that border to the Pacific limit of the Russian Federation.

**South Africa:** EC, Eastern Cape; FS, Free State; G, Gauteng; KZN, KwaZulu Natal; L, Limpopo; M, Mpumalanga; NC, Northern Cape; NW, North-West; WC, Western Cape.

*Note:* Mpumalanga was Eastern Transvaal (ET) and Limpopo Province was Northern Transvaal (NT) at the time of the 1997 Inventory.

**USA:** Ala, Alabama; Ari, Arizona; Ark, Arkansas; Cal, California; Col, Colorado; Con, Connecticut; DC, District of Columbia; Del, Delaware; Flo, Florida; Geo, Georgia; Ill, Illinois; Ind, Indiana; Kan, Kansas; Ken, Kentucky; Lou, Louisiana; Mar, Maryland; Mas, Massachusetts; Mic, Michigan; Min, Minnesota; Misp, Mississippi; Misr, Missouri; Mon, Montana; NC, North Carolina; ND, North Dakota; Neb, Nebraska; Nev, Nevada; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NY, New York; Okl, Oklahoma; Ore, Oregon; Pen, Pennsylvania; RI, Rhode Island; SC, South Carolina; SD, South Dakota; Ten, Tennessee; Ver, Vermont; Vir, Virginia; Was, Washington; Wis, Wisconsin; WV, West Virginia; Wyo, Wyoming.

*Note:* Alaska (spelled in full) is folded into the USA, a departure from pre-2008 inventory versions in which it was recognized as an individual entity equivalent to a country. The current arrangement reflects its faunistic treatment in the larger context of the North American continent (Adler *et al.*, 2004).

### (3) General abbreviations

attrib.	-	attributed to
Comb. n.	-	new combination
descrip.	-	description
f.	-	form
incl.	-	including
ICZN	-	International Commission on Zoological Nomenclature
loc.	-	locality
preocc.	-	preoccupied (of a junior homonym)
publ.	-	published
sp.	-	species
spp.	-	species (plural)
ssp.	-	subspecies
subst.	-	substitute (of name substituting for junior homonym)
Syn. n.	-	new synonymy
unav.	-	unavailable (infringing some aspect of Chapter 4 of the <i>Code</i> )
unpubl.	-	unpublished
var.	-	variety

### A note on common names for blackflies

In many parts of the world, especially where they are bloodsucking pests, blackflies have common (vernacular) names in local languages. Some of these vernacular names apply to simuliids generally and others to particular species, for example Blandford fly, a name strictly for *Simulium posticum*. Common names are not included in this Inventory, anyone who would like information on such names is directed to the Blackfly Vernacular Names Project. This is posted on the internet in the form of Wiki pages that allow anyone to access the names lists, and to provide additions or suggested amendments by typing them directly onto the pages. The pages can be found either at <http://www.blackfly.org.uk/Vernacular/vernacular1.htm> or by following the link on [www.blackfly.org.uk](http://www.blackfly.org.uk). More information on the project can be obtained from Dr. John B. Davies ([daviesjb@liverpool.ac.uk](mailto:daviesjb@liverpool.ac.uk)).

### Introduction to the 2008 Revision

A decade has passed since the publication of the world inventory of simuliids by Crosskey & Howard (1997), which listed 1660 valid, living species. That inventory was based on an earlier version (Crosskey, 1988) and followed by two updates (Crosskey, 1999, 2002) and a revised web version (Crosskey & Howard 2004). A flurry of taxonomic activity over the past three years now warrants an updated version of the 2004 inventory. The current version, also web based, is a collaboration between Adler and Crosskey, and was foreshadowed in the introduction to the 2004 inventory, with an eye toward maintaining periodic updates.

Our collaboration entails several rearrangements and compromises relative to the 2004 inventory version, notably the following, based primarily on Adler *et al.* (2004): (1) The more restricted interpretation for the tribe Prosimuliini is adopted. (2) *Helodon* and *Urosimulium* are treated in generic status. (3) *Aspathia* and *Boreosimulium* are recognized as valid subgenera. (4) *Hearlea* and *Shewellomyia* are subsumed in *Hemicnetha*. (5) *Obuchovia* is retained as a distinct subgenus, following Crosskey & Howard (2004), rather than recognized as a species group in the subgenus *Hemicnetha* (Adler *et al.* 2004); we agree, however, that the small size of the subgenus and the structural similarity of the included species do not justify recognition of species groups in *Obuchovia*. (6) The *griseifrons*, *multistriatum*, and *striatum* groups are retained in the subgenus *Simulium*, following Crosskey & Howard (2004), rather than in the subgenus *Aspathia* (Adler *et al.*, 2004). (7) *Mayacnephia* is subsumed in *Tlalocomyia*. (8) The common name for the Simuliidae is retained as one word ('blackflies'), rather than two ('black flies'; Adler *et al.*, 2004), to provide

continuity with previous inventory versions. We emphasize, overall, the overwhelming consensus of opinion on the taxonomy and systematic arrangement of the more than 2000 valid taxa included in the present inventory.

The current inventory represents a new edition, covering information known to us to have been published before 1 January 2008. The main purpose of this inventory remains the same as for previous versions: “to provide a user-friendly systematic aid to a wide audience involved with almost any aspect of simuliid research, particularly in relation to biodiversity studies.” (Crosskey & Howard, 2004). A total of 2027 formally named species (2015 living and 12 fossil) are listed as valid, representing a net gain of 218 valid species since the 2004 inventory version. Extant species are represented among the major zoogeographic regions as follows: Afrotropical, 11%; Australasian, 12%; Nearctic, 11%; Neotropical, 16%; Oriental, 17%; Palearctic, 33%. These figures, however, should be interpreted cautiously. They reflect not only differential taxonomic effort in the various regions, but also differences in philosophical approaches to taxonomy and recognition of species. The Palearctic Region was dominated for more than 50 years by Ivan Rubtsov, who authored or coauthored 365 specific, subspecific, or varietal names for simuliids, many of which are beginning to fall to synonymy. Efforts in the Afrotropical Region have been biased toward the medically important *Simulium damnosum* complex. The figures also do not reflect species shared between two zoogeographic regions. About 13% of species in the Nearctic Region, for example, are shared with the Palearctic Region (Adler *et al.*, 2004).

All synonyms and vernacular names, as well as incorrect spellings and misidentifications known to us, are provided for each species. Also given are the countries of distribution, along with the region, state, province, or island for large or faunistically diverse countries; the country and any first-level subdivision of each type locality is specified.

Notes regarding new geographical, nomenclatural, and taxonomic information or interpretations are provided at the end of the inventory, listed alphabetically by taxon. These notes are linked to taxa in the inventory by an asterisk (\*). Particular attention should be given to the notes of previous inventories (Crosskey, 1988; Crosskey & Howard, 1997, 2004), not repeated here but invaluable as guides and interpretations to many of the entries in the current version.

### **Introduction to the 2009 Revision**

In this most recent revision of the Inventory, a total of 2072 formally named species (2060 living and 12 fossil) are listed as valid (Table 1 [updated in 2011 revision]), representing a net gain of 45 valid species since the 2008 inventory revision. Of the 26 valid extant genera, the genus *Simulium* includes just over 80% of the species. Twelve of the extant genera contain four or fewer extant species, and in time, might be shown to nest within other genera, requiring that their names be synonymized.

Although the number of simuliid species being described continues to increase, we are concerned about the growing number of unavailable names. In particular, failure to designate a type specimen and to name its depository when describing a new species renders the name unavailable, according to Articles 16.4.1 and 16.4.2 in the current (fourth) edition of the *International Code of Zoological Nomenclature*, published in 1999 and effective from 1 January 2000. Additionally, new species continue to be described using existing names in the same genus, resulting in primary homonyms and rendering the most recent (junior) names invalid.

### **Introduction to the 2010 Revision**

In this most recent revision of the Inventory, a total of 2113 formally named species (2101 living and 12 fossil) are listed as valid (Table 1 [updated in 2011 revision]), representing a net gain of 41 valid species since the 2009 inventory revision, all but 3 in the genus *Simulium*.

### **Introduction to the 2011 Revision**

The present revision of the Inventory of the world's Simuliidae continues our intent to provide yearly, fully updated electronic revisions of the World Inventory, which originally was issued in paper format by Crosskey (1988). The current revision, thus, includes all information known to us to have been published before 1 January 2011. The purpose and format of this inventory remain the same as for previous revisions.

Because each yearly update replaces previous web revisions, we retain relevant portions of previous web-based revisions. The Introduction to the 2008 revision and novel text from the Introductions to the 2009 and 2010 revisions, therefore, can be found before the References, which include literature from all revisions, beginning with 2008. Acknowledgments from previous revisions are combined and included before the References. We also have retained all nomenclatural changes (e.g., new combinations and new synonyms) and all notes from previous web revisions, beginning with 2008. These past changes and notes are summarized at the end of the “Notes for the current (2011) inventory”. Table 1, which summarizes the numbers of formally named species in the genera of the world Simuliidae, is updated annually.

In this most recent revision of the Inventory, a total of 2,141 formally named species (2,129 living and 12 fossil) are listed as valid (Table 1), representing a net gain of 28 valid species since the 2010 inventory revision, all but 2 in the genus *Simulium*.

### **Introduction to the 2012 Revision**

We highlight here one change that affects previous records provided for species distributions. Because of the establishment, since 9 July 2011, of South Sudan as an independent country, separated from the erstwhile Sudan, we have changed, as now necessary, the ‘Sudan’ country distribution entries.



In this most recent revision of the Inventory, a total of 2,132 species (2,120 living and 12 fossil) are listed as valid (Table 1). The small difference in the living species total from 2011 is due to the counterbalancing effect of recently established synonymies.

### **Introduction to the 2013 Revision**

In this most recent revision of the Inventory, 2,154 species (2,142 living and 12 fossil) are listed as valid (Table 1), representing a net increase of 22 living species since the previous revision [2012].

### **Introduction to the 2014 Revision**

In this most recent revision of the Inventory, 2,163 species (2,151 living and 12 fossil) are listed as valid (Table 1), representing a net increase of 8 living species, all in the genus *Simulium*, since the previous revision [2013].

### **Introduction to the 2015 Revision**

In this most recent revision of the Inventory, 2,189 species (2,177 living and 12 fossil) are listed as valid (Table 1), representing a net increase of 26 living species, all but two in the genus *Simulium*, since the previous revision [2014].

### **Introduction to the 2016 Revision**

In this most recent revision of the Inventory, 2,219 species (2,204 living and 15 fossil) are listed as valid (Table 1), representing a net increase of 27 living and 3 fossil species since the previous [2015] revision.

### **Introduction to the 2017 Revision**

In this most recent revision of the Inventory, 2,247 species (2,232 living and 15 fossil) are listed as valid (Table 1), representing a net increase of 28 living species since the previous [2016] revision.

### **Introduction to the 2018 Revision**

In this most recent revision of the Inventory, 2,297 species (2,281 living and 16 fossil) are listed as valid (Table 1), representing a net increase of 49 living species and 1 fossil species since the previous [2017] revision. Significant revision of species-groups of the subgenus *Simulium* in the Oriental Region resulted in a net increase of seven new species-groups (Takaoka 2017).

### **Introduction to the 2019 Revision**

In this most recent revision of the Inventory, 2,328 species (2,310 living and 18 fossil) are listed as valid (Table 1), representing a net increase of 29 living species and 2 fossil species since the previous [2018] revision.

### **Introduction to the 2020 Revision**

In this most recent revision of the Inventory, 2,348 species (2,331 living and 17 fossil) are listed as valid (Table 1), representing a net increase of 21 living species and a net loss of 1 fossil species (transferred to another family) since the previous [2019] revision.

### **Introduction to the 2021 Revision**

In this most recent revision of the Inventory, 2,401 species (2,384 living and 17 fossil) are listed as valid (Table 1), representing a net increase of 53 living species since the previous [2020] revision.

### **Introduction to the 2022 Revision**

In this most recent revision of the Inventory, 2,415 species (2,398 living and 17 fossil) are listed as valid (Table 1), representing a net increase of 14 living species since the previous [2021] revision.

## **Cumulative Acknowledgments for the 2008–2021 Revisions**

We thank all friends and colleagues who have provided literature, comments, and corrections for one or more revisions: S. Aibulatov, C. E. Beard, B. Belqat, R. A. Cheke, H.-B. Chen, M. Cherairia, S. Ciadamidaro, D. A. Craig, A. Cupina, D. C. Currie, J. B. Davies, C. S. Deák, N. Hamada, L. Hernández-Triana, J. Ilmonen, M. Ivković, L. Jedlička, A. Khazeni, A. Krüger, M. Kúdela, G. Nardi, M. Pepinelli, R. J. Post, C. Sandoval, H. Takaoka, A. I. Vasiliev, and D. Werner.

### **Acknowledgments for the 2008 Revision**

We thank our friends and colleagues who reviewed various parts of the inventory: D. A. Craig (*Inseliellum*), D. C. Currie (general), A. Krüger and R. J. Post (*Edwardsellum*), and H. Takaoka (Japanese simuliids). We also thank J. B. Davies for reviewing the note on common names, and Theresa Howard, Department of Entomology at the Natural History Museum, London, for assistance given to RWC, particularly in the preparation of the 2004 predecessor web-site version on which this new edition is primarily based.

### **Acknowledgments for the 2009 Revision**

None.

### **Acknowledgments for the 2010 Revision**

We thank R. A. Cheke, D. A. Craig, D. C. Currie, and H. Takaoka for providing literature and corrections to the 2009 revision.

### **Acknowledgments for the 2011 Revision**

We thank N. Hamada and H. Takaoka for providing literature and comments for the 2011 revision.

### **Acknowledgments for the 2012 Revision**

We thank D. A. Craig, N. Hamada, J. Ilmonen, and H. Takaoka for providing comments, corrections, and literature for the 2012 revision.

### **Acknowledgments for the 2013 Revision**

We thank R. Cheke, D. A. Craig, D.C. Currie, C.S. Deák, A. Khazeni, R. Post, and H. Takaoka for providing comments, corrections, and literature for the 2013 revision. This work was supported in part by National Science Foundation award DEB-0841636 to PHA under the American Recovery and Reinvestment Act of 2009. This is Technical Contribution No. 6112 of the Clemson University Experiment Station, and is based on work supported in part by NIFA/USDA, under project number SC-1700433.

### **Acknowledgments for the 2014 Revision**

For the 2014 revision, we thank D. A. Craig and D. C. Currie for correcting the publication date for *fusciflava* and M. Kúdela for providing literature and, with A. Cupina, drawing our attention to the correct type locality for *S. argenteostriatum*. This work was supported in part by National Science Foundation award DEB-0841636 to PHA under the American Recovery and Reinvestment Act of 2009. This is Technical Contribution No. 6112 of the Clemson University Experiment Station, and is based on work supported in part by NIFA/USDA, under project number SC-1700433.

### **Acknowledgments for the 2015 Revision**

For contributing information, literature, and corrections to the 2015 revision, we thank S. Aibulatov, B. Belqat, M. Cherairia, L. Hernández-Triana, and H. Takaoka. This work was supported in part by National Science Foundation award DEB-0841636 to PHA under the American Recovery and Reinvestment Act of 2009. This is Technical Contribution No. 6112 of the Clemson University Experiment Station, and is based on work supported in part by NIFA/USDA, under project number SC-1700433.

### **Acknowledgments for the 2016 Revision**

For contributing information and corrections to the 2016 revision, we thank the following colleagues: S. Aibulatov for bringing our attention to additional Palearctic distribution records, M. Ivković for recommending the clarified country name of Bosnia and Herzegovina, M. Kúdela for providing information about the countries from which *S. colombaschense* previously has been recorded, and G. Nardi for drawing our attention to an incorrect spelling of *S. apennicum*. This work was supported in part by National Science Foundation award DEB-0841636 to PHA under the American Recovery and Reinvestment Act of 2009. This is Technical Contribution No. 6112 of the Clemson University Experiment Station, and is based on work supported in part by NIFA/USDA, under project number SC-1700433.

### **Acknowledgments for the 2017 Revision**

We thank S. V. Aibulatov for pointing out omissions of species from the North Caucasus and for sending literature, R. A. Cheke for drawing our attention to an additional record (Togo) for *S. bovis*, H.-B. Chen for sending us a copy of his new book (*Chinese Blackflies*. Guizhou Science and Technology Publishing House Co.), L. Jedlička for sharing his updates to the species recorded from Ukraine, A. Krüger for sharing his new country distribution records for African simuliids, and B. Belqat and H. Takaoka for pointing out distributional omissions and a type-locality error, respectively.

### **Acknowledgments for the 2018 Revision**

We thank B. Belqat for bringing to our attention several published Tunisian records, D. A. Craig for associating informal thesis names of the subgenus *Morops* with their formal names, and C. Sandoval for bringing to our attention a geographic error.

### **Acknowledgments for the 2019 Revision**

I thank S. Ciadamidaro for drawing attention to the correct spelling of *S. segusinum*, and N. Hamada and J. M. C. Nascimento for corrections to the Brazilian listings.

### **Acknowledgments for the 2020 Revision**

I thank P. Ashe for pointing out the correct authorship for the chironomid *Liauningius robustus*, W. L. Grogan for comments on the use of “trinomial” versus “trinominal”, M. Kúdela for calling attention to omitted records for Croatia, S. M. Smith for pointing out an incorrect original spelling of *S. adolffriedericianum*, and H. Takaoka for clarifying the distribution of *S. asakoe* and the correct species group for *S. lineothorax*.

### **Acknowledgments for the 2021 Revision**

I thank S. Ciadamidaro for pointing out distributional omissions for Italy, N. Hamada for information on the distribution of *S. tergospinosum*, S. M. Smith for drawing our attention to an additional incorrect subsequent spelling of *S. colombaschense* and *S. goinyi*, H. Takaoka for corrections to the Oriental fauna, and A. I. Vasiliev for providing his publication with records for Moldova.

## Acknowledgments for the 2022 Revision

I thank D. C. Currie for pointing out corrections to the fossil section, and H. Takaoka for correcting the distribution of *S. okinawense*.

## References for the 2008–2024 Revisions

- Adler, P.H., Currie, D.C. & Wood, D.M. 2004. *The black flies (Simuliidae) of North America*. Cornell University Press, Ithaca, New York. xv + 941 pp. + 24 color plates.
- Brown, R.W. 1956. *Composition of scientific words: a manual of methods and a lexicon of materials for the practice of logotechnics*. Revised edition. Washington, D.C., privately published. 882 pp.
- Crosskey, R.W. 1988 [‘1987’]. An annotated checklist of the world black flies (Diptera: Simuliidae). Pp. 425–520. In Kim, K.C. & Merritt, R.W. (eds.). *Black flies: ecology, population management, and annotated world list*. Pennsylvania State University Press, University Park, Pennsylvania.
- Crosskey, R.W. 1999. *First update to the taxonomic and geographical inventory of world blackflies (Diptera: Simuliidae)*. The Natural History Museum, London. 10 pp.
- Crosskey, R.W. 2002. *Second update to the taxonomic and geographical inventory of world blackflies (Diptera: Simuliidae)*. The Natural History Museum, London. 14 pp.
- Crosskey, R.W. & Howard, T.M. 1997. *A new taxonomic and geographical inventory of world blackflies (Diptera: Simuliidae)*. The Natural History Museum, London. 144 pp.
- Crosskey, R.W. & T.M. Howard. 2004. A revised taxonomic and geographical inventory of world blackflies (Diptera: Simuliidae). <http://www.nhm.ac.uk/entomology/projects/blackflies/index.html>
- Rubtsov, I.A. & Yankovsky, A.V. 1988. Simuliidae. Pp. 114–186. In Soós, A. & Papp, L. (eds.), *Catalogue of Palaearctic Diptera*, vol. 3, Ceratopogonidae-Mycetophilidae. Elsevier, Amsterdam. 448 pp.
- Soós, A. & Papp, L. (eds.) 1984–1994. *Catalogue of Palaearctic Diptera*. 14 vols. Akadémiai Kiadó, Budapest.
- Stearn, W.T. 1995. *Botanical Latin: history, grammar, syntax, terminology and vocabulary*. Fourth edition. David & Charles, Newton Abbot, United Kingdom. xiv + 546 pp.
- Takaoka, H. 2017. Morphotaxonomic revision of species-groups of *Simulium* (*Simulium*) (Diptera: Simuliidae) in the Oriental Region. *Zootaxa* 4353: 425–446.
- Yankovsky, A.V. 1995. Simuliidae. Pp. 1–61. In, *Catalogue of type specimens in the collection of the Zoological Institute RAN: Two-winged Insects (Diptera)*, 5 (Families Simuliidae, Culicidae): 1–63. Saint Petersburg, Russia. [In Russian].

**Table 1. Numbers of Formally Named Species in the Genera and Subgenera of World Simuliidae.**

<u>Living Species</u>			
<b>Parasimulium (4)</b>		<b>Eusimulium</b>	42
Astoneomyia	1	<b>Freemanellum</b>	7
Parasimulium	3	<b>Gomphostilbia</b>	307
<b>Gymnopais</b>	12	<b>Hearlea</b>	20
<b>Helodon (36)</b>		<b>Hebridosimulium</b>	16
Distosimulium	2	<b>Hellichiella</b>	23
Helodon	31	<b>Hemicnetha</b>	20
Parahelodon	3	<b>Inseliellum</b>	55
<b>Levitinia</b>	3	<b>Lewisellum</b>	9
<b>Prosimulium</b>	81	<b>Meilloniellum</b>	5
<b>Twinnia</b>	10	<b>Metomphalus</b>	33
<b>Urosimulium</b>	3	<b>Montisimulium</b>	81
<b>Araucnephia</b>	3	<b>Morops</b>	75
<b>Araucnephioides</b>	1	<b>Nevermannia</b>	248
<b>Austrocnephia</b>	5	<b>Notolepria</b>	9
<b>Austrosimulium (30)</b>		<b>Obuchovia</b>	12
Austrosimulium	24	<b>Phoretomyia</b>	15
Novaustrosimulium	6	<b>Pomeroyellum</b>	47
<b>Bunyipellum</b>	1	<b>Psaroniocompsa</b>	48
<b>Cnephia</b>	7	<b>Psilopelmia</b>	64
<b>Cnesia</b>	3	<b>Psilozia</b>	5
<b>Cnesiamima</b>	1	<b>Pternaspatha</b>	28
<b>Crozetia</b>	2	<b>Rubzovia</b>	5
<b>Ectemnia</b>	4	<b>Schoenbaueria</b>	23
<b>Ectemnoides</b>	6	<b>Shewellomyia</b>	3
<b>Gigantodax</b>	65	<b>Simulium</b>	554
<b>Greniera</b>	13	<b>Trichodagmia</b>	82
<b>Lutzsimulium</b>	4	<b>Wallacellum</b>	17
<b>Metacnephia</b>	57	<b>Wilhelmia</b>	31
<b>Nothogreniera</b>	2	<b>Xenosimulium</b>	5
<b>Paracnephia (9)</b>		<b>[Unplaced to subgenus]</b>	10
Paracnephia	6	<b>Stegopterna</b>	14
Procnephia	3	<b>Sulcicnephia</b>	24
<b>Paraustrosimulium</b>	3	<b><u>Tlalocomyia</u></b>	<u>16</u>
<b>Pedrowygomyia</b>	5	<b>TOTAL</b>	2407
<b>Protaustrosimulium</b>	4		
<b>Simulium (1979)</b>		<b><u>Fossil Species</u></b>	
Afrosimulium	1	<b>[Gydarina]</b>	[1]
Anasolen	11	<b>[Kovalevimyia]</b>	[1]
Asiosimulium	7	<b>[Simulimima]</b>	[1]
Aspathia	26	<b>[Archicnephia]</b>	[1]
Boophthora	6	<b>[Baisomyia]</b>	[1]
Boreosimulium	20	<b>Ectemnia</b>	[1]
Byssodon	12	<b>Greniera</b>	[5]
Chirostilbia	15	<b>Simulium (Hellichiella)</b>	[2]
Crosskeyellum	2	<b>[Ugolyakia]</b>	[1]
Daviesellum	2	<b>[Cretaceosimulium]</b>	[1]
Disculter	2	<b>[Simuliites]</b>	[1]
Edwardsellum	30	<b><u>[Unplaced to genus]</u></b>	<u>[1]</u>
Eremulium	3	<b>TOTAL</b>	[17]

## Inventory

Order DIPTERA Linnaeus

Infraorder CULICOMORPHA Hennig

Superfamily SIMULIOIDEA Newman\*\*\*\*

Family SIMULIIDAE Newman

SIMULIITES Newman, 1834 (as 'Natural Order': origin of family name SIMULIIDAE)

SIMULIDES Zetterstedt, 1837

SIMULINAE Rondani, 1840

SIMULIINA Agassiz, 1846

SIMULIDAE Haliday *in* Walker, 1851

SIMULIADAE Haliday *in* Walker, 1851

SIMULINA Rondani, 1856

SIMULIDEA Bellardi, 1859

SIMULIIDAE Dallas, 1869 (in *Zoological Record*: first actual use of modern family spelling)

[MELUSINIDAE: authors, error based on type misidentification]

Subfamily PARASIMULIINAE Smart

PARASIMULIINAE Smart, 1945. Type genus: *Parasimulium* Malloch.

*PARASIMULIINAE* Smart, 1944 (unav., *nomen nudum*)

**Genus PARASIMULIUM Malloch**

**PARASIMULIUM** Malloch, 1914 (as genus). Type species: *furcatum* (original designation)

**Subgenus ASTONEOMYIA Peterson**

**ASTONEOMYIA** Peterson, 1977 (as subgenus of *Parasimulium*). Type species: *melanderi* (original designation)

**melanderi** Stone, 1963 ..... USA (Washington); Canada (BC)

'A' Adler, Currie & Wood, 2004 (*Parasimulium* sp.) ..... USA (Oregon)

'n. sp.' Courtney, 1993 (*Parasimulium*)

**Subgenus PARASIMULIUM Malloch s. str.**

**crosskeyi** Peterson, 1977 ..... USA (Oregon)

**furcatum** Malloch, 1914 ..... USA (California, Ore); Canada (BC)

**stonei** Peterson, 1977 ..... USA (California, Ore, Was)

Subfamily SIMULIINAE Newman

Tribe PROSIMULIINI Enderlein

PROSIMULIINAE Enderlein, 1921. Type genus: *Prosimulium* Roubaud

HELLICHIINI Enderlein, 1925. Type genus: *Hellichia* Enderlein

GYMNOPAIDINAE Rubtsov, 1955. Type genus: *Gymnopaïs* Stone [stem: Gymnopaïd-]

HELODOINI [*sic*] Ono, 1982 (correctly HELODONTINI). Type genus: *Helodon* Enderlein

[KOVALEVIMIYIINAE Kalugina, 1991]. Type genus: *Kovalevimyia* Kalugina

[Genus **GYDARINA** Kalugina]

[**GYDARINA** Kalugina, 1991 (as genus). Type species: *karabonica* (original designation)]

[*karabonica* Kalugina, 1991] ..... [Siberia (Chitinskaya ES): Lower Cretaceous]

Genus **GYMNOPAIS** Stone

**GYMNOPAIS** Stone, 1949 (as genus). Type species: *dichopticus* (original designation)

**andrei** Vorobets, 1984 ..... Siberia (Yakutskaya ES)  
**bifistulatus** Rubtsov, 1955 ..... Siberia (Baikal ES); Mongolia  
*bitistulatus*: incorrect subsequent spelling  
**dichopticooides** Wood, 1978 ..... Canada (Yukon, Alb, BC); USA (Alaska)  
'near *dichopticus*' Craig, 1974 / Davies, 1974 (*Gymnopais* sp.)  
**dichopticus** Stone, 1949 ..... USA (Alaska); Canada (Yukon)  
**fimbriatus** Wood, 1978 ..... Canada (Yukon); USA (Alaska)  
**frontatus** Yankovsky, 1982 ..... Siberia (Kamchatka FE, Yakutskaya ES)  
*boreopacificus* Yankovsky, 1996 (unnecessary subst. name)  
**holopticooides** Wood, 1978 ..... Canada (Northwest Territories [Victoria Island] incl.  
'n. sp.' Downes, 1962 (*Gymnopais*) Banks Island, BC, Lab, Nun incl. Baffin Island, Que,  
Yukon); USA (Alaska)  
**holopticus** Stone, 1949 ..... USA (Alaska); Canada (Yukon)  
**lindneri** Rubtsov, 1963 ..... Siberia (Tuva WS)  
**rubzovi** Bobrova, 1967 ..... Siberia (Altai WS)  
**sexcornutus** Bodrova, 1975 ..... Siberia (Maritime FE)  
*sexcornotus*: incorrect subsequent spelling  
**trifistulatus** Rubtsov, 1955 ..... Siberia (Baikal ES, Maritime FE)  
'1' Petrozhitskaya & Matafonov, 2016 ..... Siberia (Baikal ES)

Genus **HELODON** Enderlein

**HELODON** Enderlein, 1921 (as genus). Type species: *ferrugineum* (original designation)

Subgenus **DISTOSIMULIUM** Peterson

**DISTOSIMULIUM** Peterson, 1970 (as subgenus of *Prosimulium*). Type species: *pleurale* (original designation)

**daisetsensis** (Uemoto, Okazawa & Onishi, 1976) ..... Japan (Hokkaido)  
**pleuralis** (Malloch, 1914) ..... Canada (British Columbia, Alb, Lab, NB,  
*temuicalx* (Enderlein, 1925) [USA (Idaho)] Nfld, Que, Yukon); USA (Alaska, Idaho, Was)  
*pancerastes* (Dyar & Shannon, 1927) [USA (Idaho)]

Subgenus **HELODON** Enderlein s. str.

**HELODON** Enderlein, 1921 (as genus)\*. Type species: *ferrugineus* (original designation)

*HAIMOPHAGA* Rubtsov, 1977 (as subgenus of *Ahaimophaga*). Type species: *multicaulis* (original designation)  
*AHAIMOPHAGA* Rubtsov & Chubareva, 1977 [in Rubtsov] (unav., no designated type-species)  
*AHAIMOPHAGA* Chubareva & Rubtsov, 1978 [in Chubareva] (as genus). Type species: *alpestris* (original designation)  
*ACHAIMOPHAGA*: incorrect subsequent spelling

<b>alpestris</b> (Dorogostaisky, Rubtsov & Vlasenko, 1935) .....	Siberia (Irkutskaya ES, WS, FE incl. Commander Islands); Canada (BC, NWT, Yukon), China (Jilin), Kazakhstan, Mongolia, USA (Alaska)
<i>altaicus</i> (Rubtsov, 1956) [Kazakhstan]	
<i>relensis</i> (Rubtsov, 1956) [Siberia (Irkutskaya)]	
<i>komandorensis</i> (Rubtsov, 1971) [Siberia (Commander Islands)]	[Yankovsky, 2003 [2002] treats <i>komandorensis</i> as valid sp.]
‘J’ Hocking, 1950 ( <i>Prosimulium</i> sp.)	
<i>alpestri</i> , <i>kalpestre</i> : incorrect subsequent spellings	
<b>aridus</b> (Rubtsov, 1971) .....	Mongolia
<b>beardi</b> Adler, Currie & Wood, 2004 .....	USA (Arizona, Cal, Ore)
‘3’ Newman, 1983 ( <i>onychodactylus</i> cytoform)	
<b>buturlini</b> (Rubtsov, 1956) .....	Siberia (Yakutskaya ES)
<b>chaos</b> Adler, Currie & Wood, 2004 .....	USA (Oregon, Cal, Was)
‘1a’ Newman, 1983 ( <i>onychodactylus</i> cytoform) .....	Cal, Ore, Was
‘1b’ Newman, 1983 ( <i>onychodactylus</i> cytoform) .....	Ore, Was
<b>chehciri</b> (Popov, 1977) .....	Siberia (Khabarovsk FE)
<b>clavatus</b> (Peterson, 1970) .....	Canada (Yukon, Alb, BC)
<i>albertensis</i> (Peterson & Depner, 1972) [Canada (Alberta)]	
<b>czekanowskii</b> (Rubtsov, 1956) .....	Siberia (Yakutskaya ES)
<i>czekanowskii</i> , <i>czenkanowskii</i> : incorrect subsequent spellings	
<b>diadelphus</b> Adler, Currie & Wood, 2004 .....	USA (Wyoming, Alaska, Idaho, Ore, Was); Canada (Alb, BC, Yukon)
‘2b’ Newman, 1983 ( <i>onychodactylus</i> cytoform)	
<i>diadelphus</i> : incorrect subsequent spelling	
<b>ferrugineus</b> (Wahlberg, 1844) [valid, ICZN Opinion 1496, List] .....	Sweden; Estonia, Finland, Norway, Russia (CR, NR), Siberia (WS)
<i>rufus</i> (Meigen, 1838) [ICZN List] [no locality, ? Sweden]	
<i>borealis</i> (Zetterstedt, 1842) [ICZN List] [Sweden]	
<b>irkutensis</b> (Rubtsov, 1956) .....	Siberia (Irkutskaya ES); Canada (Nun incl. Baffin Island, NWT incl. Banks and Victoria Islands, Yukon), USA (Alaska)
<i>perspicuus</i> (Sommerman, 1958) [USA (Alaska)]	
<i>martini</i> (Peterson, 1970) [Canada (Nunavut [as NWT]: Baffin Is.)]	
? ‘X’ Sommerman, 1953 ( <i>Prosimulium</i> sp.)	
‘#’ Sommerman, 1953 ( <i>Prosimulium</i> sp.)	
<i>ircutense</i> , <i>ireutense</i> : incorrect subsequent spellings	
<i>perspicum</i> , <i>pespicuum</i> : incorrect subsequent spellings	
<b>kamtshaticus</b> (Rubtsov, 1940) .....	Siberia (Kamchatka FE)
<i>kamtshaticus</i> Rubtsov, 1939 (unav., <i>nomen nudum</i> )	
<i>kamchaticum</i> : incorrect subsequent spelling	
<b>kamui</b> (Uemoto & Okazawa, 1980) .....	Japan (Hokkaido)
[ <i>multicaulis</i> : Ono, 1976, not Popov]	
<b>laamii</b> (Beaucournu-Saguez & Bailly-Choumara, 1981) .....	Morocco
<i>laami</i> : incorrect subsequent spelling	
<b>lochmocola</b> (Sun, 2008) .....	China (Liaoning)
<b>makarovi</b> (Bodrova, 1988) [ <i>in</i> Bodrova & Luk'yanchuk] .....	Siberia (Sakhalin FE)
<b>mccreadiei</b> Adler, Currie & Wood, 2004 .....	USA (Washington, Cal, Ore)
‘7a’ Newman, 1983 ( <i>onychodactylus</i> cytoform) .....	Ore
‘7b’ Newman, 1983 ( <i>onychodactylus</i> cytoform) .....	Ore
<i>mecreaidiei</i> : incorrect subsequent spelling	
<b>mesenevi</b> (Patrusheva, 1975) .....	Siberia (Taymyrsky ES)
<b>multicaulis</b> (Popov, 1968) .....	Siberia (Khabarovsk FE, Sakhalin FE); Korea (South). [‘Japan’ error]
<i>mulicaulis</i> , <i>multicaulus</i> , <i>multiczauli</i> : incorrect subsequent spellings	
<b>neomulticaulis</b> Chen, 2016 .....	China (Jilin)
<b>newmani</b> Adler, Currie & Wood, 2004 .....	USA (Oregon)
‘5’ Newman, 1983 ( <i>onychodactylus</i> cytoform)	
<b>onychodactylus</b> (Dyar & Shannon, 1927) .....	USA (Colorado, Alaska, Cal, Idaho, Mon, NM, Ore, Utah, Was, Wyo); Canada (Alb, BC)
? ‘B’ Rothfels, 1979 (cytoform)	
‘6’ Newman, 1983 (cytoform)	
‘10’ Henderson, 1986 (cytoform)	
‘10a’ Henderson, 1985 (thesis) (cytoform)	
‘10b’ Henderson, 1985 (thesis) (cytoform)	
‘10c’ Henderson, 1985 (thesis) (cytoform)	
‘10d’ Henderson, 1985 (thesis) (cytoform)	

*onchodactulus*, *onchodactylum*, *onychodacthylum*,  
*onychodactilum*, *onycodactylum*: incorrect  
subsequent spellings

<b>phytofagus</b> (Rubtsov, 1976) .....	Kazakhstan
<b>protus</b> Adler, Currie & Wood, 2004 .....	USA (Idaho, Alaska, Ore, Was)
‘4a’ Newman, 1983 ( <i>onychodactylus</i> cytoform) .....	Idaho, Ore, Was
‘4b’ Newman, 1983 ( <i>onychodactylus</i> cytoform) .....	Ore, Was
<b>rezidentsii</b> (Yankovsky, 2000) .....	Siberia (Khabarovsk FE)
<b>rhizomorphus</b> (Rubtsov, 1971) .....	Siberia (Magadanskaya FE, Yakutskaya ES)
<b>rubicundus</b> Rubtsov, 1956 .....	Siberia (Irkutskaya ES, FE); Mongolia
<b>sinensis</b> (Sun, 1994) .....	China (Liaoning)
<i>sinesis</i> : incorrect subsequent spelling	
<b>submulticaulis</b> (Yankovsky, 2000) .....	Siberia (Transbaikal ES)
<i>submulticaulis</i> : incorrect subsequent spelling	
<b>susanae</b> (Peterson, 1970) .....	Canada (British Columbia, Alb, Yukon); USA (Alaska, Cal, Col, Idaho, Mon, NM, Ore, Utah, Was, Wyo)
‘A’ Rothfels, 1979 ( <i>onychodactylus</i> cytoform)	
‘2a’ Newman, 1983 ( <i>onychodactylus</i> cytoform)	
‘9’ Henderson, 1986 ( <i>onychodactylus</i> cytoform)	
<b>trochus</b> Adler, Currie & Wood, 2004 .....	Canada (British Columbia); USA (Nev)
‘8’ Henderson, 1986 ( <i>onychodactylus</i> cytoform)	

### Subgenus PARAELODON Peterson

**PARAELODON** Peterson, 1970 (as subgenus of *Prosimulium*). Type species: *decemarticulatus* (original designation)

<b>decemarticulatus</b> (Twinn, 1936) .....	Canada (Ontario, Alb, BC, Lab, Man, NWT, PEI, Que, Sask, Yukon); USA (Alaska, Maine, Wis)
<i>decemartilulatum</i> , <i>decimarticulatus</i> : incorrect subsequent spellings	
<b>gibsoni</b> (Twinn, 1936) .....	Canada (Ontario, Alb, Man, Nun, NWT, Que, Sask); USA (Maine, Mic, Min, NH, Wis)
<b>vernalis</b> Shewell, 1952 .....	Canada (Ontario); USA (Ark, Del, Mar, Vir)

### [Genus KOVALEVIMYIA Kalugina]

[**KOVALEVIMYIA** Kalugina, 1991 (as genus). Type species: *lacrimosa* (original designation)]

[ <b>lacrimosa</b> Kalugina, 1991] .....	[Siberia (Chitinskaya ES): Upper Jurassic or Lower Cretaceous]
--	---

### Genus LEVITINIA Chubareva & Petrova

**LEVITINIA** Chubareva & Petrova, 1981 (as genus). Type species: *tacobi* (original designation)

<b>freidbergi</b> Beaucournu-Saguez & Braverman, 1987 .....	Syria (Golan)
<b>tacobi</b> Chubareva & Petrova, 1981 .....	Tajikistan
<b>tamarae</b> Koshkimbaev & Ismagulov, 1992 .....	Kazakhstan

### Genus PROSIMULIUM Roubaud

**PROSIMULIUM** Roubaud, 1906 (as subgenus of *Simulium*)\*. Type species: *hirtipes* (subsequent designation of Malloch, 1914)  
*HELLICHIA* Enderlein, 1925 (as genus). Type species: *macropyga*, as *latifrons* (original designation)  
*TAENIOPTERNA* Enderlein, 1925 (as genus). Type species: *macropyga* (original designation)  
*MALLOCHELLA* Enderlein, 1930 (preocc.) (as genus). Type species: *hirtipes*, as *sibirica* (original designation)  
*MALLOCHIANELLA* Vargas & Díaz Nájera, 1948 (subst. name for *Mallochella* Enderlein, same type species)  
*PIEZOSIMULIUM* Peterson, 1989 (as genus). Type species: *neomacropyga*, as *jeanninae* (original designation)



HIRTIPES species-group

<b>albense</b> Rivosecchi, 1961 .....	Italy (incl. Sicily); Algeria
<i>silana</i> Rivosecchi, 1967 (unav., form post-1960)	
<b>anatoliense</b> Adler & Şirin, 2015 .....	Turkey
‘sp. nov.’ Adler & Şirin, 2014 ( <i>Prosimulium</i> cytoform)	
<b>approximatum</b> Peterson, 1970 .....	Canada (Quebec, NB, Nfld, Ont); USA (Mas, Mic, Wis)
[ <i>mysticum</i> : authors, not Peterson]	
<b>arshanense</b> Rubtsov, 1956 .....	Siberia (Irkutskaya ES)
<b>arvum</b> Adler & Kim, 1985 .....	USA (Pennsylvania, Ala, Ark, Geo, Maine, Mic, Misp, NC, NH, NJ, NY, SC, Ten, Texas, Vir, Wis, WV);
‘4’ Syme, 1957 (thesis) ( <i>hirtipes</i> morphoform)	Canada (Ont, Que)
[ <i>approximatum</i> : authors, not Peterson]	
<b>calabrum</b> Rivosecchi, 1966 .....	Italy
<b>clandestinum</b> Adler, Currie & Wood, 2004 .....	USA (New Jersey, Pen, Vir)
<b>daviesi</b> Peterson & DeFoliart, 1960 .....	USA (Utah, Col, Idaho, Mon, NM, Ore, Was, Wyo);
‘199’ Peterson, 1959 ( <i>Prosimulium</i> sp.)	Canada (BC)
<b>doveri</b> Sommerman, 1962 [1961] .....	USA (Alaska, Was); Canada (BC incl. Queen Charlotte Islands)
‘E’ Sommerman, 1958 ( <i>hirtipes</i> morphoform)	
‘n. sp.’ Rothfels, 1979 ( <i>Prosimulium</i> )	
[ <i>travisi</i> : Sommerman, 1953 / Sommerman, Sailer & Esselbaugh, 1955, not Stone]	
<b>esselbaughi</b> Sommerman, 1964 .....	USA (Alaska, Cal, Mon, Nev, Ore, Was); Canada (Alb, BC incl. Queen Charlotte Islands, Yukon)
‘2’ Sommerman, 1958 ( <i>hirtipes</i> morphoform)	
‘Alaskan <i>mixtum</i> ’ Syme & Davies, 1958 ( <i>Prosimulium</i> sp.)	
‘2 (Alaska)’ Basrur, 1962 ( <i>hirtipes</i> cytoform)	
<i>esselbaughi</i> : incorrect subsequent spelling	
[ <i>hirtipes</i> : Sommerman, 1953, not Fries]	
<b>fontanum</b> Syme & Davies, 1958 .....	Canada (Ontario, NB, Que); USA (Maine, Mic, NH, NY, Pen)
‘16’ Rothfels, 1956 ( <i>Prosimulium</i> cytoform)	
‘3’ Syme & Davies, 1958 ( <i>hirtipes</i> morphoform)	
<i>fontanumatum</i> , <i>fontanatum</i> : incorrect subsequent spellings	
<b>formosum</b> Shewell, 1959 .....	Canada (British Columbia: Vancouver Island, Queen Charlotte Islands and mainland, Alb, Yukon); USA (Ari, Cal, Idaho, Mon, NM, Ore, Was, Wyo)
<b>frohnei</b> Sommerman, 1958 .....	USA (Alaska, Cal, Col, Mon, Wyo); Canada (Alb, BC, Yukon)
<b>frontatum</b> Terteryan, 1956 .....	Armenia; Azerbaijan
<i>stenopalpe</i> Rubtsov, 1956 (attrib. Terteryan) [Armenia]	
<i>stenopalpi</i> , <i>strnopalpis</i> : incorrect subsequent spellings	
<b>fulvipes</b> (Edwards, 1921) .....	Bulgaria; Czech Republic, Hungary, Italy, Slovakia, Turkey
<i>subrufipes</i> Knoz, 1980 [Czech Republic]	
<b>fulvithorax</b> Shewell, 1959 .....	Canada (British Columbia: Vancouver Island and mainland); USA (Cal, Mon, Ore)
‘1’ Basrur, 1962 ( <i>Prosimulium</i> sp.)	
<b>fulvum</b> (Coquillett, 1902) .....	USA (Montana, Alaska, Cal, Col, Idaho, Ore, Utah, Was, Wyo); Canada (Alb, BC, Yukon)
[ <i>ochraceum</i> : Baker, 1897 / Coquillett, 1898, 1900, not Walker]	
<b>fuscum</b> Syme & Davies, 1958 .....	Canada (Ontario, Man, NB, NS, PEI, Que incl. Magdalen Islands, Sask); USA (Mas, Mic, NH, NJ, NY, Pen, Wis)
<i>mysticum</i> Peterson, 1970 [USA (Wisconsin)]	
‘1’ Rothfels, 1956 ( <i>hirtipes</i> cytoform)	
‘#2’ Anderson & Dicke, 1960 ( <i>Prosimulium</i> sp.)	
<b>gigas</b> Rubtsov, 1956 .....	Russia (Caucasus)
<b>hirtipes</b> (Fries, 1824) .....	Sweden; Andorra, Austria, Belgium, Bosnia and Herzegovina, Britain (En, Sc), China (He, IM, Li), Czech Republic, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Luxembourg, Norway, Poland, Romania, Russia (CR, NR), Siberia (ES, WS), Slovakia, Slovenia, Spain, Switzerland, Ukraine, Greece (?), Netherlands (?). [Not North America]
<i>sibiricum</i> (Enderlein, 1930) [Siberia (Yakutskaya)]	
<i>diminutum</i> Rubtsov, 1956 [Siberia (Irkutskaya)]	
‘3’ Kunze, 1953 ( <i>Simulium</i> species)	
‘A’ Kúdela, Adler & Kúdlová, 2018 (cytoform, typical)	
‘B’ Kúdela, Adler & Kúdlová, 2018 (cytoform)	
<i>deminutum</i> : incorrect subsequent spelling	

<i>girtipes</i> , <i>hirtites</i> , <i>hirtum</i> : incorrect subsequent spellings	(misidentified)]
<b>idemai</b> Adler, Currie & Wood, 2004 .....	USA (California)
<b>irritans</b> Rubtsov, 1940 .....	Siberia (Maritime, Sakhalin FE); China (He, Jilin, Li)
<i>irtans</i> , <i>irritanus</i> : incorrect subsequent spellings	
<b>isos</b> Rubtsov, 1956 .....	Siberia (Khabarovsk, Kamchatka FE, Yakutskaya ES)
<i>isio</i> : incorrect subsequent spelling	
<b>italicum</b> Rivosecchi, 1967 .....	Italy (incl. Sicily)
‘A’ Kúdela, Adler & Kúdelová, 2018 (cytoform)	
‘B’ Kúdela, Adler & Kúdelová, 2018 (cytoform)	
<b>jacuticum</b> Rubtsov, 1973 .....	Siberia (Yakutskaya ES)
<i>tiksiense</i> Yankovsky, 1996 (unnecessary subst. name)	
<b>jezonicum</b> (Matsumura, 1931) .....	Japan (Hokkaido incl. Rebun Island and Rishiri Island, Hon); Siberia (Sakhalin FE)
<i>sapporoense</i> (Shiraki, 1935) [Japan (Hokkaido)]	
[ <i>crassitarsis</i> : Matsumura, 1915, not Macquart]	
[ <i>hirtipes</i> (part): authors (Japan), not Fries]	
<b>kanii</b> Uemoto, Onishi & Orii, 1973 .....	Japan (Honshu)
<b>kiotoense</b> Shiraki, 1935 .....	Japan (Honshu, Ky); Korea (South)
‘Mukashi-buyu No. 1’ Kani, 1944	
[ <i>hirtipes</i> (part): authors (Japan), not Fries]	
<b>latimucro</b> (Enderlein, 1925) (complex) .....	France (incl. Corsica); Austria, Bosnia and Herzegovina, Britain (En, Sc, Wa), Bulgaria, Czech Republic, Germany, Ireland, Italy, Montenegro, Morocco, Norway, Poland, Portugal, Romania, Slovakia, Spain, Switzerland, Ukraine. [‘Sweden’ error]
<i>inflatum</i> Davies, 1957 [Britain (England)]	
<i>goidanichi</i> Rubtsov, 1964 [Italy]	
‘aff. 1’ Basrur, 1959 (cytoform)	
‘aff. 3’ Basrur, 1959 ( <i>inflatum</i> [= <i>latimucro</i> ] cytospecies) .....	Austria
‘n. sp.’ Rothfels, 1979 ( <i>Prosimulium</i> cytoform [Europe])	
‘A’ Kúdela, Kúdelová & Adler, 2017 (cytoform/molecular form) .....	France, Italy, Scotland, Slovakia, Switzerland
‘B’ Kúdela, Kúdelová & Adler, 2017 (cytoform/molecular form) .....	France, Italy
‘C’ Kúdela, Kúdelová & Adler, 2017 (cytoform) .....	Morocco
<i>latimurco</i> : incorrect subsequent spelling	
[ <i>conistylum</i> : authors, not Rubtsov]	
[ <i>hirtipes</i> : authors, not Fries]	
<b>liaoningense</b> Sun & Xue, 1994 .....	China (Liaoning)
<i>lianingense</i> : incorrect subsequent spelling	
<b>luganicum</b> Rubtsov, 1956 .....	Russia (St Petersburg CR, KM); Finland, Latvia, Norway, Poland, Sweden, Romania (?)
<b>minifulvum</b> Adler, Currie & Wood, 2004 .....	USA (California, Idaho)
<b>mixtum</b> Syme & Davies, 1958 .....	Canada (Ontario, Lab, NB, Nfld, NS, PEI, Que incl. Magdalen Islands); USA (Ala, Ark, Geo, Ill, Ind, Ken, Maine, Mar, Mic, NC, NH, NJ, NY, Ohio, Pen, SC, Ten, Ver, Vir, Wis, WV)
<i>calceatum</i> Say, 1835 (unav., <i>nomen nudum</i> )	
‘2’ Rothfels, 1956 ( <i>hirtipes</i> cytoform)	
‘1’ Pinkovsky, 1970 (thesis) ( <i>Prosimulium</i> sp.)	
<i>mixtum</i> : incorrect subsequent spelling	
[ <i>hirtipes</i> : New world authors, not Fries]	
<b>nevexalatamus</b> Sun, 2008 .....	China (Liaoning)
<b>petrosom</b> Rubtsov, 1955 .....	Azerbaijan; Armenia, Bulgaria, Georgia, Lebanon, Russia (Caucasus), Ukraine (Crimea)
<i>nigratum</i> Rubtsov, 1956 [Ukraine]	
<b>rachiliense</b> Djafarov, 1954 (complex) .....	Azerbaijan; Armenia, Bulgaria, Georgia, Greece (Rhodes), Morocco, Romania, Russia (Caucasus), Turkey
<i>pronevitschae</i> Rubtsov, 1955 [Russia (Caucasus)]	
‘A’ Adler & Şirin 2014 (cytoform) .....	Armenia
‘B’ Adler & Şirin 2014 (cytoform) .....	Turkey
<i>pronevitshae</i> , <i>pronevitshae</i> : incorrect subsequent spellings	
[ <i>rufipes</i> (part): authors (Morocco), not Meigen]	
<b>rhizophorum</b> Stone & Jamnback, 1955 .....	USA (Pennsylvania, Ala, Con, Del, Geo, Ill, Ind, Ken, Maine, Mar, Mas, NC, NH, NJ, NY, Ohio, RI, Ten, Vir, WV)
‘14’ Jamnback, 1953 (thesis) ( <i>Prosimulium</i> sp.)	
<i>rhizophrum</i> , <i>rhizophum</i> , <i>rhyzophorum</i> : incorrect subsequent spellings	
<b>rufipes</b> (Meigen, 1830) (complex) .....	Germany; Andorra, Austria, Bosnia and Herzegovina, Bulgaria, Czech Republic, France,
<i>gallii</i> (Edwards, 1921) [Switzerland]	

<i>conistylum</i> Rubtsov, 1956 [Italy]	Greece, Hungary, Italy (incl. Sicily), Latvia,
<i>aestivalis</i> Knoz, 1963 (unav., form post-1960)	Luxembourg, Montenegro, Poland, Romania, Serbia,
'aff. 2' Basrur, 1959 ( <i>inflatum</i> [= <i>latimucro</i> ] cytoform)	Slovakia, Slovenia, Spain, Switzerland, Turkey,
<i>conistulum</i> , <i>constylum</i> , <i>conystilum</i> : incorrect subsequent spellings	Ukraine, Algeria (?). [*Morocco' error]
<i>galli</i> : incorrect subsequent spelling	
<i>ruffoi</i> : incorrect subsequent spelling	
[ <i>fuscipes</i> : Knoz, 1965, not von Roser]	
<b>rusticum</b> Adler, Currie & Wood, 2004	USA (Arizona)
<b>saltus</b> Stone & Jamnback, 1955	USA (New York, Geo, Ten, WV)
<b>secretum</b> Adler, Currie & Wood, 2004	USA (California); Canada (BC)
<b>shewelli</b> Peterson & DeFoliart, 1960	USA (Wyoming, Cal, Col, Utah); Canada (BC)
<i>woodorum</i> Peterson, 1970 [Canada (British Columbia)]	
<i>opleri</i> Peterson & Kondratieff, 1995 [1994] [USA (Colorado)]	
<b>supernum</b> Adler & Reeves, 2023	USA (Wyoming, Cal, Col)
[ <i>esselbaughi</i> (part, California): Adler, Currie & Wood, 2004, not Sommerman]	
<b>tomosvaryi</b> (Enderlein, 1921 [June])	Germany; Andorra, Austria, Armenia, Azerbaijan,
<i>picipes</i> (Stephens, 1829) (unav., <i>nomen nudum</i> )	Belgium, Bosnia and Herzegovina, Britain (En, Sc),
<i>fuscipes</i> (von Roser, 1840) (preocc.) [Germany]	Bulgaria, Croatia, Czech Republic, France, Georgia,
<i>tomosvaryi</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	Greece, Hungary, Ireland, Italy (incl. Sicily),
<i>nigripes</i> Enderlein, 1925 [Germany]	Luxembourg, Morocco, Poland, Portugal, Romania,
<i>pexifrons</i> Enderlein, 1925 [Austria]	Russia (Caucasus), Serbia, Slovakia, Slovenia, Spain,
<i>balcanicum</i> Enderlein, 1929 [Bulgaria]	Switzerland, Turkey, Ukraine
<i>canbalicum</i> (Smart, 1944) (subst. name, for <i>balcanicum</i> )	
<i>pseudohirtipes</i> (Smart, 1944) (subst. name, for <i>nigripes</i> )	
<i>arvernense</i> (Grenier, 1947) [France]	
<i>duodecimfiliatum</i> Rubtsov, 1955 [Armenia]	
<i>maruashvili</i> Machavariani, 1966 [Georgia]	
<i>arvenense</i> , <i>avernense</i> : incorrect subsequent spellings	
<i>momosvary</i> , <i>toemoesvary</i> : incorrect subsequent spellings	
[ <i>vigintiquaterni</i> : authors, not Enderlein]	
<b>transbrachium</b> Adler & Kim, 1985	USA (Pennsylvania, Vir)
'X' Adler, 1983 (thesis) ( <i>Prosimulium</i> sp.)	
<b>travisi</b> Stone, 1952	USA (Alaska, Ari, Cal, Col, Mon, Nev, NM, Ore, Utah,
[ <i>esselbaughi</i> : Elgmork & Saether, 1970 / Saether, 1970, not Sommerman]	Was); Canada (Alb, BC incl. Queen Charlotte Islands, Yukon)
<b>tridentatum</b> Rubtsov, 1940	Siberia (Irkutskaya ES, FE); Mongolia
<b>unispinum</b> Rubtsov, 1967	Siberia (Buryatskaya ES, FE)

#### MACROPYGA species-group

<b>candicans</b> Rubtsov, 1956	Siberia (Baikal ES, Altai WS); Mongolia
<b>erythronotum</b> Rubtsov, 1956	Siberia (Khabarovsk FE, Yakutskaya ES)
<b>intercalare</b> Rubtsov, 1956	Siberia (Chitinskaya ES)
<b>kolymense</b> Patrusheva, 1975	Siberia (Magadanskaya FE, WS)
<b>macropyga</b> (Lundström, 1911) <sup>†</sup>	Russia (Karelia KM); Finland, Norway, Kazakhstan,
<i>latifrons</i> (Enderlein, 1925) [Norway]	Russia (NR), Siberia (ES, WS), Sweden
<i>zaitzevi</i> Rubtsov, 1956 [Siberia (Tyumen)]	
<i>arcticum</i> Rubtsov & Carlsson, 1965 (preocc.) [Siberia (Taymyrsky)]	[Yankovsky, 2003 [2002] treats <i>zaitzevi</i> as valid sp.]
<i>korshunovi</i> Patrusheva, 1975 [Siberia (Polyarnyy Ural)]	
<i>kershunovi</i> : incorrect subsequent spelling ( <i>Zoological Record</i> )	
<i>macrogapyga</i> , <i>macropiga</i> , <i>macropuga</i> , <i>macropygia</i> , <i>micropyga</i> :	
incorrect subsequent spellings	
<i>zaitzevi</i> , <i>zatzevi</i> : incorrect subsequent spellings	
[ <i>latimucro</i> : Rubtsov & Carlsson, 1965, not Enderlein]	
<b>nenetz</b> Yankovsky, 2011	Russia (Arkhangelsk NR)
<b>neomacropyga</b> Peterson, 1970	USA (Alaska: Saint Matthew Island and mainland, Col,
<i>jeanninae</i> (Peterson, 1989) [USA (Colorado)]	Wyo); Canada (Yukon)

<i>wui</i> Peterson & Kondratieff, 1995 [1994] [USA (Colorado)]	
‘n. sp.’ Bushnell, Foster & Wahle, 1987 ( <i>Prosimulium</i> )	
‘n. sp. B’ Bushnell, Foster & Wahle, 1987 ( <i>Prosimulium</i> )	
‘near <i>frohnei</i> ’ Bushnell, Foster & Wahle, 1987 ( <i>Prosimulium</i> sp.)	
‘near <i>neomacropyga</i> ’ Peterson, 1989 ( <i>Prosimulium</i> sp.)	
[ <i>ursinum</i> : authors, not Edwards]	
<b>oligoaristatum</b> Rubtsov, 1971 .....	Tajikistan
<b>pamiricum</b> Chubareva & Petrova, 1983 .....	Tajikistan
<b>pecticrassum</b> Rubtsov, 1956 .....	Siberia (Irkutskaya ES, WS); Kazakhstan
<b>tiksi</b> Yankovsky, 2011 .....	Siberia (Yakutskaya ES)
<b>tredecimfistulatum</b> Rubtsov, 1956 .....	Siberia (Buryatskaya ES, WS)
<i>tridecimfistulatum</i> : incorrect subsequent spelling	
<b>ursinum</b> (Edwards, 1935) (complex) .....	Norway (Bear Island = Björnöya, mainland); Canada
<i>ursinum</i> (Edwards, 1935, p. 473) (unav., <i>nomen nudum</i> )	(BC, Lab, Nun incl. Baffin and Southampton Islands,
<i>browni</i> (Twinn, 1936) [Canada (Nunavut [as NWT]: Baffin Island)]	NWT, Que, Yukon), Finland, Greenland, Iceland,
‘O’ Rothfels, 1956 ( <i>Prosimulium</i> cytoform)	Russia (KM), Sweden, USA (Alaska)
[ <i>macropyga</i> : Chubareva, 1977, 1978, not Lundström]	
<b>ventosum</b> Rubtsov, 1956 .....	Siberia (Irkutskaya ES)
<i>venosum</i> : incorrect subsequent spelling	
‘sp. n.’ [also ‘sp.’] Chubareva, 1986 .....	Siberia (Krasnoyarsk ES)
‘1’ Adler, 2016 (diploid parent of <i>candicans</i> ) .....	Mongolia
‘2’ Adler, 2016 (haploid parent of <i>candicans</i> ) .....	Mongolia
‘3’ Adler, 2016 (haploid parent of <i>candicans</i> , separate population, hypothetical species) .....	Mongolia
‘4’ Adler, 2016 (diploid parent of <i>pamiricum</i> , hypothetical species) .....	Kyrgyzstan, Tajikistan
‘5’ Adler, 2016 (haploid parent of <i>pamiricum</i> and haploid and diploid parent in separate populations of <i>ursinum</i> , hypothetical species) .....	Canada (BC, Nunavut Yukon), Finland, Iceland, Kyrgyzstan, Norway, Sweden, Tajikistan, USA (Alaska)

#### MAGNUM species-group

<b>albionense</b> Rothfels, 1956 .....	Canada (Ontario); USA (Ala, Ark, Geo, Ind, Ken, Mar, Mic, NH, NJ, NY, Ohio, Pen, Ten, Vir, Wis, WV)
‘nr. <i>magnum</i> ’ Phelps & DeFoliart, 1964 ( <i>Prosimulium</i> sp.)	
‘3’ Ottonen & Nambiar, 1969 ( <i>magnum</i> cytoform)	
‘Y <sub>c</sub> X <sub>0</sub> hybrid’ Ottonen & Nambiar, 1969 ( <i>magnum</i> cytoform)	
‘intermediate’ Ottonen & Nambiar, 1969 ( <i>magnum</i> cytoform)	
[ <i>magnum</i> : authors, not Dyar & Shannon]	
<b>apoina</b> Ono, 1977 .....	Japan (Hokkaido)
<i>apoinan</i> , <i>apoinum</i> : incorrect subsequent spellings	
<b>canutum</b> Adler, Currie & Wood, 2004 .....	USA (Wisconsin, Mic, NJ, NY, Pen, WV)
‘2’ Ottonen & Nambiar, 1969 ( <i>magnum</i> cytoform)	
[ <i>multidentatum</i> : Crans, 1996, not Twinn]	
<b>caudatum</b> Shewell, 1959 .....	Canada (British Columbia: Vancouver Island and mainland); USA (Cal, Ore, Was)
<b>constrictistylum</b> Peterson, 1970 .....	Canada (British Columbia); USA (Nev)
‘X’ Ottonen, 1966 ( <i>Prosimulium</i> cytoform)	
<b>dicentum</b> Dyar & Shannon, 1927 .....	USA (California, Ore, Was)
<b>dicum</b> Dyar & Shannon, 1927 .....	Canada (British Columbia incl. Queen Charlotte Islands); USA (Alaska, Ari, Cal, NM, Ore, Was)
<b>exigens</b> Dyar & Shannon, 1927 .....	USA (Idaho, Ari, Cal, Col, Mon, Nev, NM, SD, Utah, Was, Wyo); Canada (BC, Alb)
<i>hardyi</i> (Stains & Knowlton, 1940) [USA (Utah)]	
<i>longilobum</i> Peterson & DeFoliart, 1960 [USA (Utah)]	
<b>flaviantennus</b> (Stains & Knowlton, 1940) .....	USA (Utah, Ari, Cal, Col, Idaho, NM, Wyo)
<i>flaviantennum</i> , <i>flaviatennus</i> : incorrect subsequent spellings	
<b>impostor</b> Peterson, 1970 .....	Canada (British Columbia); USA (Ari, Cal, Ore)
‘Y’ Ottonen, 1966 ( <i>Prosimulium</i> cytoform)	

<b>karibaense</b> Ono, 1980 .....	Japan (Hokkaido)
<i>karribaense</i> : incorrect original spelling	
<b>kazukii</b> Takaoka, Saito, Adler & Baba, 2018 .....	Japan (Honshu, Kyushu)
<i>alpium</i> Ogata, 1956 (unav., named aberration)	
<b>longirostrum</b> Currie, Adler & Wood, 2004 [ <i>in</i> Adler, Currie & Wood]. .	USA (Oregon)
<b>magnum</b> Dyar & Shannon, 1927 .....	USA (Virginia, Ala, Ark, Geo, Ill, Ind, NH, NJ, NY, Pen, SC, Ten)
<i>frisoni</i> (Dyar & Shannon, 1927) [USA (Illinois)]	
‘1’ Ottonen & Nambiar, 1969 (cytoform)	
‘B’ Traore, 1992 (thesis) (lapsus for <i>magnum</i> s. str.)	
<i>magnum</i> : incorrect subsequent spelling	
<b>multidentatum</b> (Twinn, 1936) .....	Canada (Quebec, Ont); USA (Ken, Maine, Mic, NY, Wis)
<b>sarurensis</b> Ono, 1976 .....	Japan (Hokkaido)
<i>sarurensis</i> , <i>sarurensis</i> , <i>serurensis</i> : incorrect subsequent spellings	
<b>uinta</b> Peterson & DeFoliart, 1960 .....	USA (Wyoming, Ari, Utah)
<b>unicum</b> (Twinn, 1938) .....	USA (Utah, Ari)
<b>yezoense</b> Shiraki, 1935 .....	Japan (Hokkaido, Hon, Ky, Sh); Siberia (Sakhalin FE)
‘Mukashi-buyu No. 2’ Kani, 1944	
<i>ezoense</i> , <i>yesoense</i> : incorrect subsequent spellings	

#### [Genus SIMULIMIMA Kalugina]

[SIMULIMIMA Kalugina, 1985 [*in* Kalugina & Kovalev] (as genus). Type species: *grandis* (original designation)]

[*grandis* Kalugina, 1985 [*in* Kalugina & Kovalev]] ..... [Siberia (Buryatskaya ES): Middle Jurassic]

#### Genus TWINNIA Stone & Jamnback

TWINNIA Stone & Jamnback, 1955 (as genus). Type species: *tibblesi* (original designation)

<b>cannibora</b> Ono, 1977 .....	Japan (Hokkaido)
<i>canivora</i> , <i>cannibra</i> , <i>cannibran</i> , <i>cannivora</i> : incorrect subsequent spellings	
<b>changbaiensis</b> Sun, 1994 .....	China (Liaoning)
<b>hirticornis</b> Wood, 1978 .....	Canada (British Columbia); USA (Cal, Mon, Ore)
[ <i>nova</i> : Rothfels & Freeman, 1966, not Dyar & Shannon]	
<b>hydroides</b> (Novák, 1956) .....	Slovakia; Austria, Czech Republic, Germany, Italy, Poland, Switzerland, Ukraine
<i>tatrensis</i> Novák, 1959 [Slovakia]	
‘sp.’ Novák, 1956	
<b>japonensis</b> Rubtsov, 1960 .....	Japan (Honshu); Korea (South)
[ <i>novum</i> : Bentinck, 1955, not Dyar & Shannon]	
<b>magadensis</b> Rubtsov, 1973 .....	Siberia (Magadanskaya FE)
<b>nova</b> (Dyar & Shannon, 1927) .....	USA (Montana, Utah, Was, Wyo); Canada (BC, Alb)
<i>biclavata</i> Shewell, 1959 [Canada (British Columbia: Vancouver Is.)]	
<b>sedecimfistulata</b> (Rubtsov, 1955, as <i>16-fistulata</i> ) .....	Siberia (Baikal ES, FE)
<i>sedecimfistulata</i> , <i>sedecimfisturatum</i> : incorrect subsequent spellings	
<b>subtibblesi</b> [ <i>sic</i> ] Ono, 1980 .....	Japan (Hokkaido)
<b>tibblesi</b> Stone & Jamnback, 1955 .....	Canada (Labrador, NB, Ont, PEI, Que); USA (Maine, Mas, NH, NY, Pen)

#### Genus UROSIMULIUM Contini

UROSIMULIUM Contini, 1963 (as genus). Type species: *aculeatum*, as *stefanii* (original designation)

**aculeatum** (Rivosecchi, 1963) ..... Italy (Sicily, Sardinia); Balearic Islands (Majorca)

- stefanii* Contini, 1963 [Italy (Sicily)]  
**faurei** (Bernard, Grenier & Bailly-Choumara, 1972) ..... Morocco; Algeria, Spain  
*favrei*: incorrect subsequent spelling  
**juccii** Contini, 1966 ..... Italy (Sardinia); Algeria (?), Tunisia (?)  
 ‘gr. *aculeatum*’ Gagneur & Clergue-Gazeau, 1988  
*juncii*: incorrect subsequent spelling

Tribe SIMULIINI Newman

- SIMULIINI Newman, 1834. Type genus: *Simulium* Latreille  
 NEVERMANNIINI Enderlein, 1921. Type genus: *Nevermannia* Enderlein  
 WILHELMIINI Baranov, 1926. Type genus: *Wilhelmia* Enderlein  
 ECTEMNIINAE Enderlein, 1930. Type genus: *Ectemnia* Enderlein  
 STEGOPTERNINAE Enderlein, 1930. Type genus: *Stegopterna* Enderlein  
 CNESIINAE Enderlein, 1934. Type genus: *Cnesia* Enderlein  
 FRIESIINI Enderlein, 1936 (unav., post-1930 family-group name without characterization)  
 ODAGMIINI Enderlein, 1936 (unav., post-1930 family-group name without characterization)  
 AUSTROSIMULIINI Smart, 1945. Type genus: *Austrosimulium* Tonnoir  
 CNEPHIINI Grenier & Rageau, 1960. Type genus: *Cnephia* Enderlein  
 EUSIMULIINI Rubtsov, 1974. Type genus: *Eusimulium* Roubaud

**Genus ARAUCNEPHIA Wygodzinsky & Coscarón**

- ARAUCNEPHIA** Wygodzinsky & Coscarón, 1973 (as genus)\*\*\*\*. Type species: *montana* (original designation)  
**cearensis** Pessoa, Rios-Velásquez & Py-Daniel, 2012 ..... Brazil (Ceará)  
**iberaensis** Coscarón & Coscarón-Arias, 2002 ..... Argentina (Corrientes); Brazil (Par)  
**montana** (Philippi, 1865) ..... Chile (Valparaíso, Coq, Maule, San)  
*nigrum*: lapsus for *montanum* [in Lutz, 1909, attrib. Philippi]

**Genus ARAUCNEPHIOIDES Wygodzinsky & Coscarón**

- ARAUCNEPHIOIDES** Wygodzinsky & Coscarón, 1973 (as genus)\*\*\*\*. Type species: *schlingeri* (original designation)  
**schlingeri** Wygodzinsky & Coscarón, 1973 ..... Chile (Santiago, Maule, Val)

**[Genus ARCHICNEPHIA Currie & Grimaldi]**

- [ARCHICNEPHIA** Currie & Grimaldi, 2000 [in Grimaldi]. Type species: *ornithoraptor* (original designation)  
**[ornithoraptor** Currie & Grimaldi, 2000 [in Grimaldi] ..... [USA (New Jersey): Cretaceous amber]

**Genus AUSTROCNEPHIA Craig, Currie, Gil-Azevedo & Moulton**

- AUSTROCNEPHIA** Craig, Currie, Gil-Azevedo & Moulton, 2019 (as genus). Type species: *aurantiaca* (original designation)  
 AURANTIACA species-group  
**aurantiaca** (Tonnoir, 1925) ..... Australia (New South Wales, ACT, Qld, Tas incl.  
 Flinders Island, Vic)  
 ? ‘A’ Rothfels, 1979 (*Cnephia* cytoform, attrib. Bedo) ..... Australia (Queensland)  
**strenua** (Mackerras & Mackerras, 1950) ..... Australia (Queensland, NSW Vic)  
*strenna*: incorrect subsequent spelling

TONNOIRI species-group

<b>fuscoflava</b> (Mackerras & Mackerras, 1949)†††	Australia (Queensland)
<b>orientalis</b> (Mackerras & Mackerras, 1950)	Australia (Queensland, ACT, NSW, SA, Tas, Vic)
<b>tonnoiri</b> (Drummond, 1931) (complex)	Australia (Western Australia, Tas?)

**Genus AUSTROSIMULIUM Tonnoir††**

**AUSTROSIMULIUM** Tonnoir, 1925 (as genus). Type species: *australense* (original designation)

**Subgenus AUSTROSIMULIUM Tonnoir s. str.**

AUSTRALENSE species-group

<b>albovelatum</b> Dumbleton, 1973 [1972]	New Zealand (South Island)
‘4’ Dumbleton, 1964 [1963] ( <i>Austrosimulium</i> sp.)	
<b>alveolatum</b> Dumbleton, 1973 [1972]	New Zealand (South Island)
<b>australense</b> (Schiner, 1868)	New Zealand (North Island, South Island, Stewart Island)
<i>caecutiens</i> (Walker, 1848) (unav., <i>nomen nudum</i> )	
<i>tillyardi</i> (Tonnoir, 1923) [New Zealand (South Island)]	
<i>australiensis</i> : incorrect subsequent spelling	
<b>dugdalei</b> Craig, Craig & Crosby, 2012	New Zealand (North Island)
[ <i>multicorne</i> : Gurr, 1953, not Tonnoir]	
<b>extendorum</b> Craig, Craig & Crosby, 2012	New Zealand (Stewart Island)
[ <i>stewartense</i> : Dumbleton, 1973 [1972] (part)]	
<b>fiordense</b> Dumbleton, 1973 [1972]	New Zealand (South Island)
<i>fiordense</i> Dumbleton, 1970 (unav., <i>nomen nudum</i> )	
<b>laticorne</b> Tonnoir, 1925	New Zealand (South Island)
<i>latecorne</i> : incorrect subsequent spelling	
<b>longicorne</b> Tonnoir, 1925	New Zealand (South Island, North Island)
<b>multicorne</b> Tonnoir, 1925	New Zealand (South Island)
<b>stewartense</b> Dumbleton, 1973 [1972]	New Zealand (Stewart Island, South Island)
‘3’ Dumbleton, 1964 [1963] ( <i>Austrosimulium</i> sp.)	
<i>stewartense</i> Dumbleton, 1970 (unav., <i>nomen nudum</i> )	
<b>tillyardianum</b> Dumbleton, 1973 [1972] (subst. name)	New Zealand (South Island, North Island)
<i>tillyardi</i> Tonnoir, 1925 (preocc. Tonnoir, 1923)	
<i>tillardianum</i> : incorrect subsequent spelling	
[ <i>australense</i> : authors, not Schiner]	

MIRABILE species-group

<b>fulvicorne</b> Mackerras & Mackerras, 1950	Australia (Queensland)
<b>mirabile</b> Mackerras & Mackerras, 1948	Australia (Queensland)
<b>montanum</b> Mackerras & Mackerras, 1952	Australia (New South Wales, Vic)

UNGULATUM species-group

<b>bicorne</b> Dumbleton, 1973 [1972]	New Zealand (South Island)
<i>crobyi</i> Yankovsky, 1996 (unnecessary subst. name)	
‘2’ Dumbleton, 1964 [1963] ( <i>Austrosimulium</i> sp.)	
<b>campbellense</b> Dumbleton, 1973 [1972]	Campbell Island
[ <i>vexans</i> : authors, not Mik]	
<b>cornutum</b> Tonnoir, 1925	Australia (Victoria, ACT, NSW, Tas)
<b>crassipes</b> Tonnoir, 1925	Australia (Victoria, ACT, NSW, Qld)
<b>dumbletoni</b> Crosby, 1976	New Zealand (South Island)

<b>tonnoiri</b> Craig, Craig & Crosby, 2012 .....	New Zealand (South Island)
<b>ungulatum</b> Tonnoir, 1925 .....	New Zealand (South Island, Stewart Island)
<b>unicorne</b> Dumbleton, 1973 [1972] .....	New Zealand (South Island)
‘1’ Dumbleton, 1964 [1963] ( <i>Austrosimulium</i> sp.)	
<b>vailavoense</b> Craig, Craig & Crosby, 2012 .....	New Zealand (Stewart Island, South Island)
<b>vexans</b> (Mik, 1881) .....	Auckland Islands (Auckland and Enderby Islands)
‘C’ Mackerras & Mackerras, 1949 ( <i>Austrosimulium</i> sp.) .....	Australia (Western Australia)

### Subgenus NOVAUSTROSIMULIUM Dumbleton

**NOVAUSTROSIMULIUM** Dumbleton, 1973 [1972] (as subgenus of *Austrosimulium*). Type species: *bancrofti* (original designation)

#### BANCROFTI species-group

<b>bancrofti</b> (Taylor, 1918) (complex) .....	Australia (Queensland, ACT, NSW, SA, Tas, Vic, WA)
‘Canberra’ Ballard & Bedo, 1991 (cytoform) .....	Australia (ACT)
‘Eidsvold A’ Ballard & Bedo, 1991 (cytoform) .....	Australia (Queensland)
‘Eidsvold B’ Ballard & Bedo, 1991 (cytoform) .....	Australia (Queensland)
‘Eidsvold C’ Ballard & Bedo, 1991 (cytoform) .....	Australia (Queensland)
‘Eidsvold D’ Ballard & Bedo, 1991 (cytoform) .....	Australia (Queensland)
‘Ipswich A’ Ballard & Bedo, 1991 (cytoform) .....	Australia (New South Wales)
‘Ipswich B’ Ballard & Bedo, 1991 (cytoform) .....	Australia (Queensland)
‘Willawarin’ Ballard & Bedo, 1991 (cytoform) .....	Australia (Queensland)
<b>magnum</b> Mackerras & Mackerras, 1955 .....	Australia (Queensland)
<b>pestilens</b> Mackerras & Mackerras, 1948 .....	Australia (Queensland, ACT, NSW, NT)

#### FURIOSUM species-group

<b>furiosum</b> (Skuse, 1889) [1888] .....	Australia (New South Wales, ACT, Qld, SA, Tas, Vic, WA)
<i>weindorferi</i> Tonnoir, 1925 [Australia (Tasmania)]	
<i>simile</i> Tonnoir, 1925 [Australia (Tasmania)]	
<i>austrosimile</i> (Smart, 1944) (unnecessary subst. name)	
<b>torrentium</b> Tonnoir, 1925 .....	Australia (Tasmania, ACT, NSW, Vic)
<i>hilli</i> Mackerras & Mackerras, 1949 [1948] (ssp.) [Australia (ACT)]	
<b>victoriae</b> (Roubaud, 1906) .....	Australia (Victoria, ACT, NSW, Qld, Tas incl. Flinders Island)
<i>tasmaniense</i> Tonnoir, 1925 [Australia (Tasmania)]	

### [Genus BAISOMYIA Kalugina]

[**BAISOMYIA** Kalugina, 1991 (as genus). Type species: *incognita* (original designation)]

[**incognita** Kalugina, 1991] ..... [Siberia (Buryatskaya ES): Lower Cretaceous]

### Genus BUNYIPELLUM Craig, Currie & Moulton

**BUNYIPELLUM** Craig, Currie & Moulton, 2018 (as genus). Type species: *gladiator* (original designation)

<b>gladiator</b> (Moulton & Adler, 2004) [ <i>in</i> Moulton, Adler & Prince] .....	Australia (Western Australia)
‘B’ Rothfels, 1979 ( <i>Cnephia</i> cytoform, attrib. Bedo)	

### Genus CNEPHIA Enderlein

**CNEPHIA** Enderlein, 1921 (as genus). Type species: *pecuarum* (original designation)



*ASTEGA* Enderlein, 1930 (as genus). Type species: *pallipes*, as *lapponica* (original designation)

<b>angarensis</b> Rubtsov, 1956 .....	Siberia (Angara ES)
<b>dacotensis</b> (Dyar & Shannon, 1927) .....	USA (South Dakota, Iowa, Kan, Maine, Mas, Mic, Min, Neb, NH, NJ, NY, Pen, Wis); Canada (Alb, Man, Ont, Que, Sask)
<i>lasciva</i> (Twinn, 1936) [Canada (Ontario)]	
‘A’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
<i>dacotennis</i> , <i>dakotense</i> , <i>decotensis</i> : incorrect subsequent spellings	
<i>johanseni</i> [ <i>sic</i> ]: lapsus for <i>dacotensis</i> [Rubtsov, 1960]	
<b>eremites</b> Shewell, 1952 .....	Canada (Northwest Territories incl. Victoria Island, Man, Nun incl. Southampton Island); Finland, Siberia (ES, FE), Sweden, USA (Alaska)
<i>arborescens</i> Rubtsov, 1971 [Siberia (Taymyrsky)]	
‘A’ Twinn, Hocking, McDuffie & Cross, 1948 ( <i>Eusimulium</i> sp.)	
<i>arborensis</i> : incorrect subsequent spelling	
<i>enemites</i> , <i>erimites</i> : incorrect subsequent spellings	
<b>ornithophilia</b> Davies, Peterson & Wood, 1962 [1961] .....	Canada (Ontario, Lab, Nfld, Que); USA (Ala, Ark, Del, Flo, Geo, Kan, Lou, Mar, Mic, Misp, NC, NJ, Okl, Pen, SC, Texas, Vir)
‘near <i>pecuarum</i> ’ Hocking & Richards, 1952 ( <i>Cnephia</i> )	
‘U’ Bennett, 1960 ( <i>Cnephia</i> sp.)	
<i>ornitophila</i> , <i>ornitophilia</i> : incorrect subsequent spellings	
[ <i>dacotensis</i> (part): authors (Nfld: Avalon Peninsula), not Dyar & Shannon]	
[ <i>pecuarum</i> : authors, not Riley]	
<b>pallipes</b> (Fries, 1824) .....	Norway; Finland, Lithuania, Russia (CR, NR), Sweden, Ukraine, Siberia (?)
<i>lapponica</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	
<i>heymonsi</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	
<i>lapponica</i> (Enderlein, 1921 [June]) [Sweden]	
<i>heymonsi</i> (Enderlein, 1921 [June]) [Finland]	
<i>andrei</i> Usova & Reva, 2008 (unav., <i>nomen nudum</i> )	
<i>fallipes</i> , <i>pallines</i> , <i>pollipes</i> : incorrect subsequent spellings	
<i>laponica</i> : incorrect subsequent spelling	
[ <i>intermedia</i> : Rubtsov 1956 (part)]	
<b>pecuarum</b> (Riley, 1887) [1886] .....	USA (Louisiana, Ark, Ill, Ind, Ken, Misp, Ten, Texas)
‘B’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
‘C’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
<i>pecaurum</i> , <i>pecuarium</i> : incorrect subsequent spellings	
<b>toptchievi</b> Yankovsky, 1996 .....	Ukraine
[ <i>lapponica</i> : Rubtsov, 1956, not Enderlein (Ukraine only)]	

#### Genus CNESIA Enderlein

*CNESIA* Enderlein, 1934 [1933] (as genus). Type species: *dissimilis*, as *gynandrum* (original designation)

<b>dissimilis</b> (Edwards, 1931) .....	Argentina (Rio Negro, Chu, Nqn); Chile (Ara, BB, LL incl. Chiloé, Mag, Maule, O’H, San, Val)
<i>gynandrum</i> (Edwards, 1931) [Argentina (Rio Negro)]	
<b>ornata</b> Wygodzinsky & Coscarón, 1973 .....	Argentina (Rio Negro); Chile (Maule)
<b>pusilla</b> Wygodzinsky & Coscarón, 1973 .....	Argentina (Rio Negro, Nqn)
‘nr. <i>pusilla</i> ’ Hernández-Triana, De Oca, Prosser, Hebert, Gregory & McMurtrie, 2017 ( <i>Cnesia</i> sp.)	
<i>pussila</i> , <i>pussilla</i> : incorrect subsequent spellings	

#### Genus CNESIAMIMA Wygodzinsky & Coscarón

*CNESIAMIMA* Wygodzinsky & Coscarón, 1973 (as genus). Type species: *atroparva* (original designation)

<b>atroparva</b> (Edwards, 1931) .....	Argentina (Rio Negro, Nqn, TDF); Chile (LL, Mag incl. Navarino Island and TDF, Maule)
--	---

## Genus CROZETIA Davies

**CROZETIA** Davies, 1965 (as genus). Type species: *crozetensis* (original designation)

*NOTIOSIMULIUM* Dumbleton (specimen label name, unpublished under *Code* Article 9.6, hence unav.)

- crozetensis** (Womersley, 1937) ..... Crozet Islands (Possession)  
**seguyi** Beaucourmu-Saguez & Vernon, 1990 ..... Crozet Islands (Ile de l'Est, Possession)  
 [*crozetense*: Séguy, 1940, not Womersley]

## Genus ECTEMNIA Enderlein

**ECTEMNIA** Enderlein, 1930 (as genus). Type species: *taeniatifrons* (original designation)

- [**cerberus** (Enderlein, 1921 [July])] ..... [Russia (Kaliningrad): Eocene (Baltic amber)]  
 [*cerberus* (Enderlein, 1921 [April]) (unav., *nomen nudum*)]  
**invenusta** (Walker, 1848) ..... Canada (Ontario, Alb, Que); USA (Maine, Mas, Mic,  
*loisae* (Stone & Jamnback, 1955) [USA (New York)] Min, NC, NH, NJ, NY, Pen, SC, Wis)  
 ? 'Nov. sp.' Jamnback, 1951 (thesis)  
 '1' Jamnback, 1953 (thesis) (*Cnephia* sp.)  
**primaeva** Moulton & Adler, 1997 ..... USA (South Carolina, Ala, Flo, Geo, NC, Texas, Vir)  
 'p' Adler in Crosskey, 1994 (*Ectemnia*)  
**reclusa** Moulton & Adler, 1997 ..... USA (South Carolina, Geo, NC)  
 'r' Adler in Crosskey, 1994 (*Ectemnia*)  
 [*invenusta* (part): authors (South Carolina), not Walker]  
**taeniatifrons** (Enderlein, 1925) ..... USA (Illinois, Iowa, Kan, Mic, Min, Wis); Canada (Alb,  
 Man, Sask)

## Genus ECTEMNOIDES Moulton, Currie & Craig

**ECTEMNOIDES** Moulton, Currie & Craig, 2018 (as genus). Type species: *umbratorum* (original designation)

- absitus** Moulton, Currie & Craig, 2018 ..... Australia (Western Australia)  
**acanthocranius** Moulton, Currie & Craig, 2018 ..... Australia (Western Australia)  
 'nr. terebrans (GKW2)' Moulton 2000, 2003 (*Cnephia* sp.)  
**faecofilus** Moulton, Currie & Craig, 2018 ..... Australia (Western Australia)  
**princeae** Moulton, Currie & Craig, 2018 ..... Australia (Western Australia)  
 'y' Moulton 2000, 2003 (*Cnephia*)  
**umbratorum** (Tonnoir, 1925) ..... Australia (Victoria)  
 [*terebrans*: Moulton and Adler, 1997, not Tonnoir]  
**uvulatus** Moulton, Currie & Craig, 2018 ..... Australia (Western Australia)  
 'A' Moulton, Currie & Craig, 2018 (*Ectemnoides* sp.) ..... Australia (Western Australia)

## Genus GIGANTODAX Enderlein

**GIGANTODAX** Enderlein, 1925 (as genus).\*\*\* Type species: *bolivianus* (original designation)

*ARCHICNESIA* Enderlein, 1934 [1933] (as genus). Type species: *femineus* (original designation)

*ARCHINESIA*: incorrect subsequent spelling

### BROPHYI species-group

- antarcticus** (Bigot, 1888) ..... 'Tierra del Fuego'; Argentina (Chu, Nqn, RN, SC,  
*nigrescens* (Edwards, 1931) [Argentina (Rio Negro)] TDF), Chile (Aisén, BB, Mag incl. TDF)  
**awa** Wygodzinsky & Coscarón, 1989 ..... Peru (Cuzco)  
**brophyi** (Edwards, 1931) ..... Argentina (Rio Negro, Chu, Nqn, SC, TDF); Chile  
*bonorinorum* Coscarón & Wygodzinsky, 1962 [Argentina (Aisén, Mag incl. TDF)  
 (Tierra del Fuego)]  
*bonarissorum*, *bonorinorus*: incorrect subsequent spellings

<i>bonorinonum</i> : incorrect original spelling [alternative]	
<i>brophii</i> : incorrect subsequent spelling	
<b>chilensis</b> (Philippi, 1865) .....	Chile (Los Lagos, Aisén, Ara, BB, Mag, Maule);
<i>rufinotum</i> (Edwards, 1931) [Argentina (Rio Negro)]	Argentina (Chu, Nqn, RN, TDF: Isla de los Estados)
<b>femineus</b> (Edwards, 1931) .....	Argentina (Rio Negro, Nqn); Chile (Mag)
<b>flabellus</b> Wygodzinsky & Coscarón, 1989 .....	Ecuador; Venezuela
‘3’ Takaoka, 1987 ( <i>Gigantodax</i> sp.)	
<i>flabellus</i> Takaoka, Hirai & Tada, 1988 (unav., <i>nomen nudum</i> )	
<b>kuscheli</b> Wygodzinsky, 1952 .....	Chile (Juan Fernandez Islands)
<b>laevigatus</b> Wygodzinsky & Coscarón, 1989 .....	Ecuador
<b>luispenai</b> Wygodzinsky & Coscarón, 1989 .....	Chile (Coquimbo)
<b>marginalis</b> (Edwards, 1931) .....	Chile (Los Lagos [Chiloé], Ara, BB, Maule, San, Val);
<i>tarsatus</i> Philippi, 1865 (preocc.) [Chile (Santiago)]	Argentina (Chu, Nqn, RN)
<i>philippianus</i> Pinto, 1932 [1931] (subst. name)	
<b>multituberculatus</b> Wygodzinsky & Coscarón, 1989 .....	Colombia; Ecuador
<b>ortizi</b> Wygodzinsky, 1974 [1973] .....	Venezuela; Colombia
<b>osornorum</b> Muñoz de Hoyos, Martínez, Mejía &	
Bueno, 1995 [ <i>in</i> Muñoz de Hoyos] .....	Colombia
‘sp. nov.’ Muñoz de Hoyos, Martínez, Mejía &	
Bueno, 1994 ( <i>Gigantodax</i> )	
<b>paramorum</b> Wygodzinsky & Coscarón, 1989 .....	Colombia
<i>paranomorum</i> : incorrect subsequent spelling	
<b>patihuaycensis</b> Wygodzinsky & Coscarón, 1989 .....	Peru (Junín)
<b>rufidulus</b> Wygodzinsky & Coscarón, 1989 .....	Argentina (Neuquén, Chu, RN, SC, TDF); Chile (Mag)
<b>trifidus</b> Wygodzinsky & Coscarón, 1989 .....	Chile (Santiago); Argentina (Men, Nqn, RN)
‘trifidum’ Coscarón, 1981	
<b>viannamartinsi</b> Ramírez-Pérez, 1980 .....	Venezuela
<b>zumbahuae</b> Wygodzinsky & Coscarón, 1989 .....	Ecuador; Colombia

#### CILICINUS species-group

<b>arrarteorum</b> Wygodzinsky & Coscarón, 1989 .....	Peru (Junín)
<b>basinflatus</b> Wygodzinsky & Coscarón, 1989 .....	Colombia; Ecuador
<b>cilicinus</b> Wygodzinsky & Coscarón, 1989 .....	Argentina (San Juan); Bolivia
<b>clandestinus</b> Wygodzinsky & Coscarón, 1989 .....	Ecuador
‘4’ Takaoka, 1987 ( <i>Gigantodax</i> sp.)	
<b>destitutus</b> Wygodzinsky & Coscarón, 1989 .....	Colombia; Venezuela
<b>fulvescens</b> (Blanchard, 1854 [1852]) .....	Chile ([no type loc.], Ara, BB, Coq, LL incl. Chiloé, Maule, O’H, San, Val); Argentina (Chu, Nqn, RN)
<b>incomitatus</b> Wygodzinsky & Coscarón, 1989 .....	Venezuela
<b>lazoni</b> Takaoka, Hirai & Tada, 1988 .....	Ecuador
‘1’ Takaoka, 1987 ( <i>Gigantodax</i> sp.)	
<b>mariobordai</b> Wygodzinsky & Coscarón, 1989 .....	Bolivia
<b>pennipunctus</b> Enderlein, 1934 .....	Peru (Cuzco)
<b>shannoni</b> (Edwards, 1931) .....	Argentina (Rio Negro, Nqn); Chile (Ara, BB, LL, Maule, San)

#### CORMONSI species-group

<b>abalosi</b> Wygodzinsky, 1958 .....	Peru (Lima)
<b>brevis</b> Wygodzinsky & Coscarón, 1989 .....	Colombia
<b>cormonsi</b> Wygodzinsky & Coscarón, 1989 .....	Peru (Junín, Cuzco)
‘No. 3’ Brues, 1915 ( <i>Simulium</i> )	
<b>gracilis</b> Wygodzinsky & Coscarón, 1989 .....	Ecuador; Colombia
<b>leonorum</b> Wygodzinsky & Coscarón, 1989 .....	Ecuador; Colombia
<b>misitu</b> Wygodzinsky & Coscarón, 1989 .....	Ecuador; Colombia
<b>praealtus</b> Wygodzinsky & Coscarón, 1989 .....	Chile (Tarapacá)
<b>siberianus</b> Wygodzinsky & Coscarón, 1989 .....	Colombia

- vulcanius** Wygodzinsky & Coscarón, 1989 ..... Ecuador; Colombia  
‘2’ Takaoka, 1987 (*Gigantodax* sp.)  
*vulcanius* Takaoka, Hirai & Tada, 1988 (unav., *nomen nudum*)  
**wygodzinskyi** Moncada, Muñoz de Hoyos & Bueno, 1981 ..... Colombia  
‘n. sp.’ Moncada & Bueno, 1977 (undergraduate thesis)  
*wygodzinsky*, *wygodzynsky*: incorrect subsequent spellings

#### IGNICULUS species-group

- carmenae** Wygodzinsky & Coscarón, 1989 ..... Argentina (Rio Negro)  
‘carmenae’ Coscarón, 1981  
**igniculus** Coscarón & Wygodzinsky, 1962 ..... Argentina (TDF, Nqn, RN, SC); Chile (Aisén, Ara, BB, Mag, Maule)

#### MINOR species-group

- araucanius** (Edwards, 1931) ..... Chile (Los Lagos incl. Chiloé [type loc.], Aisén, Ara, BB, Mag); Argentina (RN, TDF: Isla de los Estados)  
**bolivianus** Enderlein, 1925 ..... Bolivia  
**eremicus** Wygodzinsky & Coscarón, 1989 ..... Chile (Atacama)  
‘eremicum’ Coscarón, 1981  
**minor** Wygodzinsky & Coscarón, 1989 ..... Chile (Maule, Ara, BB, Coq, LL incl. Chiloé, O’H, San); Argentina (Nqn, RN)  
‘minor’ Coscarón, 1981

#### MULTIFILIS species-group

- multifilis** Wygodzinsky & Coscarón, 1989 ..... Ecuador; Colombia

#### WRIGHTI species-group

- adleri** Moulton, 1996 ..... USA (Arizona, NM)  
**aquamarensis** (De León, 1945) ..... Guatemala  
**bettyae** Wygodzinsky, 1974 [1973] ..... Venezuela  
**bierigi** Vargas & Ramírez-Pérez, 1989 [1988] ..... Costa Rica  
**cervicornis** Wygodzinsky, 1974 [1973] ..... Colombia; Ecuador, Venezuela  
*cervicornis*: incorrect subsequent spelling  
**conviti** Ramírez-Pérez, 1980 ..... Venezuela  
**corniculatus** Wygodzinsky, 1974 [1973] ..... Venezuela  
**cypellus** Wygodzinsky & Coscarón, 1989 ..... Ecuador; Colombia  
‘5’ Takaoka, 1987 (*Gigantodax* sp.)  
*cypellus* Takaoka, Hirai & Tada, 1988 (unav., *nomen nudum*)  
**dryadicaudicis** Wygodzinsky & Coscarón, 1989 ..... Chile (Maule); Argentina (Nqn)  
**herrerri** Wygodzinsky & Coscarón, 1989 ..... Peru (Lima, Cuzco, Junín); Chile (Tarapacá)  
‘No. 2’ (larva) Brues, 1915 (*Simulium*)  
‘No. 4’ Brues, 1915 (*Simulium*)  
*herrerri*: incorrect subsequent spelling  
[*bolivianus*: Wygodzinsky, 1958, not Enderlein]  
**horcotiani** Wygodzinsky, 1949 ..... Argentina (Tucumán, Jujuy); Bolivia  
**impossibilis** Wygodzinsky, 1974 [1973] ..... Venezuela  
**incapucara** Wygodzinsky & Coscarón, 1989 ..... Peru (Cuzco); Bolivia  
**nasutus** Wygodzinsky & Coscarón, 1989 ..... Colombia  
**rufescens** (Edwards, 1931) ..... Argentina (Rio Negro, Nqn, TDF incl. Isla de los Estados); Chile (Ara, BB, Maule, O’H, Val)  
*wittmeri* Wygodzinsky, 1951 [Argentina (Rio Negro)]  
**septenarius** Wygodzinsky & Coscarón, 1989 ..... Colombia  
**willei** Vargas & Ramírez-Pérez, 1989 [1988] ..... Costa Rica  
**wrighti** (Vargas, Martínez Palacios & Díaz Nájera, 1944) ..... Mexico (Federal District, Ch, Mx, Ox, Vz); Guatemala  
*vargasi* (De León, 1945) [Guatemala]  
‘D’ De León, 1943 (*Simulium* sp.)

Unplaced names in *Gigantodax*

'cuyano' Coscarón, 1981 .....	'Andino-patagónica: Andino'
'dryadibranchium' Coscarón, 1981 .....	'Araucana: Austral Cordillerano'
'pucara' Coscarón, 1981 .....	'Araucana: Austral Cordillerano'

**Genus GRENIERA Doby & David**

**GRENIERA** Doby & David, 1959 (as genus). Type species: *fabri* (original designation)

ABDITA species-group

<b>abdita</b> (Peterson, 1962) .....	Canada (Ontario, Que); USA (Mas, NH, NY, Pen)
<b>abditoides</b> (Wood, 1963) [1962] .....	Canada (Ontario, BC, Man, NWT); USA (Mas)
<b>humeralis</b> Currie, Adler & Wood, 2004 [ <i>in</i> Adler, Currie & Wood] .....	USA (California, Ore); Canada (BC)
'sp.' and 'undescribed' Peterson, 1981 ( <i>Greniera</i> )	

FABRI species-group

<b>brachiata</b> (Rubtsov, 1961) .....	Russia (Karelia KM)
<b>denaria</b> (Davies, Peterson & Wood, 1962) [1961] .....	Canada (Ontario, Alb, BC, Man, NB, Que, Yukon); USA (Col, Utah, Was)
? 'L' Wolfe & Peterson, 1959 ( <i>Cnephia</i> )	
<b>dobyi</b> Beaucournu-Saguez & Braverman, 1987 .....	Syria (Golan)
<b>fabri</b> Doby & David, 1959 .....	France; Algeria, Italy (incl. Sardinia), Morocco, Spain
'aff. <i>fabri</i> ' Rivosecchi, 1963 ( <i>Greniera</i> sp.)	
<b>ivanovae</b> (Ivashchenko, 1970) .....	Russia (Ivanovo CR, Yakutskaya ES); Finland
<i>ivanovi</i> : incorrect subsequent spelling	
<b>longicornis</b> Currie, Adler & Wood, 2004 [ <i>in</i> Adler, Currie & Wood] .....	USA (Delaware, Flo)
'1' Pinkovsky, 1976 (thesis) / Pinkovsky & Butler, 1978 ( <i>Cnephia</i> sp.)	
<b>michiganensis</b> Taber, 2008 .....	USA (Michigan)
<b>nairica</b> Terteryan, 1972 .....	Armenia
<i>naurica</i> : incorrect subsequent spelling	
<b>poljakovae</b> (Patrusheva, 1977) .....	Siberia (Tomskaya WS, Yakutskaya ES)
<b>zverevae</b> Rubtsov, 1964 .....	Russia (Komi NR)
'F' Adler, Currie & Wood, 2004 ( <i>Greniera</i> sp.) .....	USA (California)

*Greniera* species unplaced to group

[ <b>affinis</b> (Meunier, 1904 [1903])] .....	[Russia (Kaliningrad): Eocene (Baltic amber)]
[ <i>meunieri</i> Smart, 1944 (unnecessary subst. name)]	
[ <b>importuna</b> (Meunier, 1904 [1903])] .....	[Russia (Kaliningrad): Eocene (Baltic amber)]
[ <b>pulchella</b> (Meunier, 1904 [1903])] .....	[Russia (Kaliningrad): Eocene (Baltic amber)]
[ <b>ukrainica</b> Perkovsky & Sukhomlin, 2015] .....	[Ukraine: Eocene (Rovno amber)]
[ <b>yankovskiy</b> Perkovsky & Sukhomlin, 2015] .....	[Ukraine: Eocene (Rovno amber)]
[ <i>pugach</i> (Perkovsky & Sukhomlin, 2015)] [Ukraine: Eocene (Rovno amber)]	

**Genus LUTZSIMULIUM d'Andretta & d'Andretta**

**LUTZSIMULIUM** d'Andretta & d'Andretta, 1947 [1946] (as genus)\*\*\*\*. Type species: *hirticosta*, as *cruzi* (original designation)

*KEMPFSIMULIUM* Py-Daniel & Nunes de Mello, 1982 [*in* Py-Daniel] (as genus). Type species: *simplicicolor* (original designation)

*WTZSIMULIUM*: incorrect subsequent spelling

<b>flavopubescens</b> (Lutz, 1910) .....	Brazil (Rio de Janeiro)
<b>hirticosta</b> (Lutz, 1909) .....	Brazil (São Paulo, Bahia, ES, MG, Par, RGS, RJ, SC);
<i>cruzi</i> d'Andretta & d'Andretta, 1947 [1946] [Brazil (São Paulo)]	Argentina (Mis)
<i>hirticola</i> : incorrect subsequent spelling	
<b>pernigrum</b> (Lutz, 1910) .....	Brazil (São Paulo, MG, RGS, RJ); Argentina (Cos)
[ <i>montanum</i> : Lutz, 1909, not Philippi]	
<b>simplicicolor</b> (Lutz, 1910) .....	Brazil (Rondônia, Amz, MGr, Pará)
<i>rondonense</i> Py-Daniel, 1982 (unav., <i>nomen nudum</i> )	
<i>hebeticolor</i> : incorrect original spelling (lapsus for <i>simplicicolor</i> )	

### Genus METACNEPHIA Crosskey

**METACNEPHIA** Crosskey, 1969 (as genus). Type species: *bilineata*, as *saileri* (original designation)  
*METANEPHIA*: incorrect subsequent spelling

<b>aldanica</b> Vorobets, 1987 .....	Siberia (Yakutskaya ES)
<b>amphora</b> Ladle & Bass, 1975 .....	Britain (England); France
'III' Grenier & Rageau, 1948 [ <i>in Grenier</i> ] ( <i>Simulium</i> sp.)	
[ <i>tredecimata</i> : Grenier & Rageau, 1951 / Grenier, 1953, not Edwards]	
<b>amsheevi</b> Usova & Bazarova, 1990 [ <i>in Bazarova</i> ] .....	Siberia (Buryatskaya ES)
<i>amsheovi</i> : incorrect subsequent spelling	
<b>aspinosa</b> Rubtsov, 1973 .....	Siberia (Maritime FE)
<b>baicalica</b> Usova & Bazarova, 1990 [ <i>in Bazarova</i> ] .....	Siberia (Buryatskaya ES)
<i>baicali</i> : incorrect subsequent spelling	
<b>bilineata</b> (Rubtsov, 1940)† .....	Siberia (Tyumen WS), Canada (Alb, BC, Man, Nun incl.
<i>saileri</i> (Stone, 1952) [USA (Alaska)]	Baffin Island, NWT, Que, Yukon), China (Xi), Finland,
<i>intermedia</i> (Rubtsov, 1956) [Russia (Orenburgskaya CR)]	Kazakhstan, Norway, Russia (CR, NR), Sweden, USA
<i>korsakovi</i> (Rubtsov, 1956) [Russia (Vologda CR)]	(Alaska)
<i>becherii</i> (Rivosecchi, 1964) (unav., <i>nomen nudum</i> , attrib. Corti)	
<i>orenburgica</i> (Yankovsky, 1996) (unnecessary subst. name,	
for <i>intermedia</i> )	
'III' Puri, 1926 ( <i>Simulium</i> sp.)	
'C' Twinn, Hocking, McDuffie & Cross, 1948 ( <i>Eusimulium</i> sp.)	
'D' Hocking, 1950 ( <i>Cnephia</i> sp.)	
'H' Madahar, 1967 (thesis) / Rothfels, 1979	
'IIIS-2' Procunier, 1982 (cytoform)	
'near <i>saileri</i> ' Craig, 1974 ( <i>Metacnephia</i> sp.)	
'Tuk' Procunier, 1980 (thesis) (cytoform)	
'IIL-3 + 4, IIL-3, 5' Procunier, 1982 (cytoform)	
<i>biliniata</i> : incorrect subsequent spelling	
<i>sailer</i> : incorrect subsequent spelling	
[ <i>pallipes</i> : Rubtsov, 1956 / Currie, 1986, not Fries]	
<b>blanci</b> (Grenier & Theodorides, 1953) .....	Morocco; Algeria, France, Italy (Sicily), Macedonia,
? <i>lesnei</i> (Séguy, 1925) [France]	Portugal, Romania, Serbia, Spain, Tunisia
<b>borealis</b> (Malloch, 1919)*** .....	Canada (Nunavut [Victoria Island] incl. Baffin and
<i>arctocanadensis</i> Yankovsky, 1996 (unnecessary subst. name)	Southampton Islands, Lab, Northwest Territories
'3' Malloch, 1919 ( <i>Simulium</i> sp.)	incl. Banks Island, Ont, Que); Siberia (FE)
'indet.' Edwards, 1933 ( <i>Simulium</i> ( <i>Cnephia</i> ) sp.)	
'X' Davies, 1950 ( <i>Cnephia</i> sp.)	
<i>borealis</i> : incorrect subsequent spelling	
[ <i>tredecimata</i> : Bodrova, 1980, not Edwards]	
<b>breevi</b> (Rubtsov, 1956) .....	Russia (Solovets Island NR)
<b>brevicollare</b> Chen & Zhang, 2016 [ <i>in Chen</i> ] .....	China (Shanxi)
<b>burjatika</b> Usova & Bazarova, 1990 [ <i>in Bazarova</i> ] .....	Siberia (Buryatskaya ES)
<b>coloradensis</b> Peterson & Kondratieff, 1995 [1994] .....	USA (Colorado)
'near <i>jeanae</i> ' Bushnell, Foster & Wahle, 1987 ( <i>Metacnephia</i> sp.)	
'new species' Peterson, 1989 ( <i>Metacnephia</i> )	

<b>cuspidata</b> Vorobets, 1987 .....	Siberia (Yakutskaya ES)
<b>danubica</b> (Rubtsov, 1956) .....	‘Danube River’; Romania, ‘Yugoslavia’
<b>edwardsiana</b> (Rubtsov, 1940) .....	Siberia (Magadanskaya FE, ES, WS); China (IM, Xi), Kazakhstan, Mongolia
<i>lanata</i> (Takahasi, 1940) [China (Inner Mongolia)]	
<i>edwardiam</i> , <i>edwardsana</i> , <i>edwardsisana</i> , <i>edwardsiana</i> : incorrect subsequent spellings	
<i>lamata</i> : incorrect subsequent spelling	
<b>gorodkovi</b> (Rubtsov, 1964) .....	Tajikistan
<b>hajotsdzorensis</b> (Terteryan, 1962) .....	Armenia
<i>hajotsdzdrensis</i> : incorrect original spelling	
<i>hajotsdorensis</i> : incorrect subsequent spelling	
<b>hamardabanae</b> Usova & Bazarova, 1990 [ <i>in Bazarova</i> ] .....	Siberia (Buryatskaya ES)
<b>jeanae</b> (DeFoliart & Peterson, 1960) .....	USA (Utah, Cal, Col, Wyo)
<i>macrocerca</i> (Peterson, 1958) (thesis) (unav., <i>nomen nudum</i> )	
<b>karakechensis</b> Yankovsky, 2000 .....	Kyrgyzstan
<i>karakeonsis</i> : incorrect subsequent spelling	
<b>kirjanovae</b> (Rubtsov, 1956)* .....	Tajikistan; China (Xi), Kazakhstan, Kyrgyzstan, Mongolia, Siberia (Altai WS, Yakutskaya ES), Uzbekistan. [? = <i>saileri</i> ]
<i>cirjanovae</i> , <i>kijanovae</i> , <i>kirjanoae</i> , <i>kirjonovae</i> , <i>kiryanovae</i> , <i>kiryanovi</i> : incorrect subsequent spellings	
<b>larunae</b> Vorobets, 1984 .....	Siberia (Yakutskaya ES)
<b>lui</b> Chen & Yang, 2016 [ <i>in Chen</i> ] .....	China (Inner Mongolia)
<b>luttae</b> Usova & Bazarova, 1990 [ <i>in Bazarova</i> ] .....	Siberia (Buryatskaya ES)
<b>lyra</b> (Lundström, 1911) .....	Finland; Germany, Norway, Russia (CR, KM, NR), Siberia (ES, WS), Sweden. [Other records in error]
<i>tabescentifrons</i> (Enderlein, 1929) [Sweden]	
<i>vestita</i> (Enderlein, 1929) [Sweden]	
<i>brevis</i> (Rubtsov, 1956) [Russia (‘northern Urals’)]	
<i>trigoniformis</i> Yankovsky, 2003 [2002] (unav. under <i>Code</i> Article 16.4.1; no type)*	
<i>lypa</i> : incorrect subsequent spelling	
<i>tabescetifrons</i> : incorrect subsequent spelling	
[ <i>trigonia</i> : Rubtsov, 1956 / Usova, 1961, not Lundström]	
<b>lyrata</b> (Rubtsov, 1956) .....	Siberia (Irkutskaya ES)
<b>mirzaevae</b> Usova & Bazarova, 1990 [ <i>in Bazarova</i> ] .....	Siberia (Buryatskaya ES)
<b>multifilum</b> (Rubtsov, 1947) .....	Tajikistan; Kyrgyzstan, Uzbekistan
<i>multifis</i> , <i>multifilla</i> , <i>multipilis</i> : incorrect subsequent spellings	
<b>nigra</b> (Rubtsov, 1940) .....	Azerbaijan (Nakhichevan); Georgia, Romania, Russia (Caucasus), Turkey, Turkmenistan
<i>saxicola</i> (Rubtsov, 1956) [Russia (Caucasus)]	
<i>nigrasexicola</i> : incorrect subsequent spelling	
<b>nuragica</b> Rivosecchi, Raastad & Contini, 1975 .....	Italy (Sardinia); Portugal, Spain, Morocco (?)
[ <i>tredecimata</i> : Contini, 1963 (Sardinia), not Edwards]	
<b>olyutorii</b> Yankovsky, 2000 .....	Siberia (Kamchatka FE)
<b>pamiriensis</b> Petrova, 1977 .....	Tajikistan
<b>paraskevae</b> Petrova, Chubareva & Kachvoryan, 1995 .....	Tajikistan
<b>pectinata</b> Patrusheva, 1976 .....	Siberia (Tyumen WS)
<b>pedipupalis</b> (Rubtsov, 1947) .....	Kazakhstan
<b>persica</b> (Rubtsov, 1940) .....	Iran; Armenia, Azerbaijan, Kazakhstan, Lebanon, Romania, Turkmenistan, Uzbekistan
<i>hirta</i> (Rubtsov & Terteryan, 1954) [Armenia]	
<b>phrygiensis</b> Şirin & Adler, 2015 .....	Turkey
<b>polyfilis</b> Chen & Wen, 2016 [ <i>in Chen</i> ] .....	China (Qinghai)
<i>polyfils</i> : incorrect original spelling	
<b>ramificata</b> (Rubtsov, 1956)† .....	Siberia (Khabarovsk FE); Mongolia, Romania, Uzbekistan
<i>parapallipes</i> Bobrova, 1980 [Siberia (Khabarovsk)]	
<b>romaschovae</b> Bodrova, 1987 .....	Siberia (Tubinskaya WS)
<b>sardoa</b> (Rivosecchi & Contini, 1965) .....	Italy (Sardinia)
<b>saskatchewanana</b> (Shewell & Fredeen, 1958) .....	Canada (Saskatchewan, Alb, BC, Man, Nun, NWT, Que, Yukon)
‘N’ Fredeen, 1951 (thesis) / Hocking & Pickering, 1954 ( <i>Cnephia</i> sp.)	
<b>sedecimfistulata</b> Rubtsov, 1976 .....	Kazakhstan

<i>dzhungarica</i> Yankovsky, 1996 (unnecessary subst. name)	
<i>decimfistula</i> : incorrect subsequent spelling	
<b>shirapovi</b> Usova & Bazarova, 1990 [ <i>in</i> Bazarova] .....	Siberia (Buryatskaya ES)
<b>slepjani</b> (Rubtsov, 1967) .....	Turkmenistan
<b>sommermanae</b> (Stone, 1952) .....	USA (Alaska); Canada (Yukon), Kazakhstan, Siberia
<i>crassifistula</i> (Rubtsov, 1956) [Siberia (Altai)]	(ES, FE, WS), Uzbekistan, Romania (?)
<i>crassifictua</i> , <i>crassifistulata</i> : incorrect subsequent spellings	
<i>sommermane</i> : incorrect subsequent spelling	
[ <i>borealis</i> : Jenkins, 1948, not Malloch]	
<b>sorkulensis</b> Rubtsov, 1971 .....	Tajikistan/Afghanistan frontier
<b>subalpina</b> (Rubtsov, 1956) .....	Azerbaijan; Armenia, Georgia, Turkey
<b>taimyrica</b> Patrusheva, 1976 .....	Siberia (Krasnoyarsk ES)
<b>tamarinae</b> Usova & Bazarova, 1990 [ <i>in</i> Bazarova] .....	Siberia (Buryatskaya ES)
<i>tamarina</i> : incorrect subsequent spelling	
<b>terterjani</b> (Rubtsov, 1955) .....	Armenia; Azerbaijan, Georgia
<b>tetraginata</b> (Rubtsov, 1951) .....	Turkmenistan; Kazakhstan, Tajikistan
<i>tetragintatum</i> : incorrect original spelling	
<i>tetrapaginata</i> : incorrect subsequent spelling	
<b>tredecimata</b> (Edwards, 1920) .....	[Unknown: not 'England']; Finland, Norway, Russia
<i>tredecemata</i> , <i>tredecimatum</i> : incorrect subsequent spellings	(KM), Sweden. [Other records in error]
<b>trispina</b> Rubtsov, 1973 .....	Siberia (Maritime FE)
<b>uzunovi</b> Kovachev, 1985 .....	Bulgaria
<i>usunovi</i> : incorrect subsequent spelling	
<b>variabilis</b> Rubtsov, 1976 .....	Tajikistan
<i>variabilis</i> , <i>veriafilis</i> : incorrect original spellings	
<b>villosa</b> (DeFoliart & Peterson, 1960) .....	USA (Wyoming, Cal, Mon, Utah); Canada (Alb, BC,
<i>freytagi</i> (DeFoliart & Peterson, 1960) [USA (Wyoming)]	Yukon)
<i>vittosa</i> : incorrect subsequent spelling	
[ <i>borealis</i> (part): authors (western USA), not Malloch]	
'Crete' Procnier, 1982 ( <i>Metacnephia</i> ) .....	Greece (Crete). [? = <i>uzunovi</i> ]
'spec.' Crosskey & Malicky, 2001	
'1' Ismagulov, 1993 (thesis) ( <i>Metacnephia</i> sp.) .....	Kazakhstan
'2' Ismagulov, 1993 (thesis) ( <i>Metacnephia</i> sp.) .....	Kazakhstan
'3' Ismagulov, 1993 (thesis) ( <i>Metacnephia</i> sp.) .....	Kazakhstan

### Genus NOTHOGRENIERA Craig, Currie & Moulton

**NOTHOGRENIERA** Craig, Currie & Moulton, 2018 (as genus). Type species: *fergusoni* (original designation)

<b>fergusoni</b> (Tonnoir, 1925) .....	Australia (New South Wales, SA, WA)
? 'Unidentified simuliid' Wharton, 1949	
'S. x. (east)' Moulton, 2000 (' <i>Cnephia</i> ' molecular form)	
<i>fergusoni</i> : incorrect subsequent spelling	
<b>occidentalis</b> (Mackerras & Mackerras, 1949, attrib.	
Tonnoir) (as <i>fergusoni</i> var.) .....	Australia (Western Australia)
'S. x. (west)' Moulton, 2000 (' <i>Cnephia</i> ' molecular form)	

### Genus PARACNEPHIA Rubtsov

**PARACNEPHIA** Rubtsov, 1962 (as genus). Type species: *muspratti* (original designation)

#### Subgenus PARACNEPHIA Rubtsov s. str.

BRINCKI species-group



**brincki** (De Meillon, 1955) ..... South Africa (Western Cape)

#### MUSPRATTI species-group

**barnardi** (Gibbins, 1938) ..... South Africa (Western Cape)  
**harrisoni** (Freeman & De Meillon, 1953) ..... South Africa (Western Cape)  
**herero** (Enderlein, 1935) ..... Namibia  
**muspratti** (Freeman & De Meillon, 1953) ..... South Africa (Western Cape)  
**thornei** (De Meillon, 1955) ..... South Africa (Western Cape)

#### Subgenus PROCNEPHIA Crosskey

**PROCNEPHIA** Crosskey, 1969 (as subgenus of *Prosimulium*). Type species: *rhodesiana* (original designation)

**damarensis** (De Meillon & Hardy, 1951) ..... Namibia  
**morotoensis** McCrae & Prentice, 1965 ..... Uganda  
**rhodesiana** (Crosskey, 1968) ..... Zimbabwe

#### Genus PARAUSTROSIMULIUM Wygodzinsky & Coscarón

**PARAUSTROSIMULIUM** Wygodzinsky & Coscarón, 1962 (as subgenus of *Austrosimulium*). Type species: *anthracinum* (original designation)

**anthracinum** (Bigot, 1888) ..... Chile (Magallanes incl. Hoste Island [type loc.], Navarino Island and TDF mainland, Aisén, Ara, LL incl. Chiloé);  
*moorei* (Silva Figueroa, 1917) [Chile (Aisén)]  
Argentina (Nqn, RN, TDF incl. Isla de los Estados)  
**colboi** (Davies & Györkös, 1988) ..... Australia (Victoria)  
**obcidens** Craig, Moulton & Currie, 2017 ..... Australia (Western Australia)

#### Genus PEDROWYGOMYIA Coscarón & Miranda-Esquivel

**PEDROWYGOMYIA** Coscarón & Miranda-Esquivel, 1998 (as genus)\*. Type species: *cortesi* (original designation)

**chacabamba** Wygodzinsky & Coscarón, 1989 ..... Peru (Junín)  
**cortesi** Wygodzinsky & Coscarón, 1989 ..... Chile (Tarapacá)  
'cortesi' Coscarón, 1981  
**hanaq** Nascimento, Hamada & Huamantínco-Araujo, 2020 [2021] ..... Peru (Ayacucho)  
**jatunchuspi** Wygodzinsky & Coscarón, 1989 ..... Chile (Tarapacá)  
'jatunchuspi' Coscarón, 1981  
**punapi** Wygodzinsky & Coscarón, 1989 ..... Argentina (Jujuy); Bolivia, Chile (Tarapacá)  
'punapi' Coscarón, 1981

#### Genus PROTAUSTROSIMULIUM Currie, Craig & Moulton

**PROTAUSTROSIMULIUM** Currie, Craig & Moulton, 2018 (as genus). Type species: *pilfreyi* (original designation)

**amphorum** Currie, Craig & Moulton, 2018 ..... Australia (Western Australia)  
**opscurum** Currie, Craig & Moulton, 2018 ..... Australia (Western Australia)  
'A' Mackerras & Mackerras, 1949 (*Cnephia* sp.)  
*nigrum* (Mackerras & Mackerras, 1949) (preocc.) [Australia  
(Western Australia)]  
**pilfreyi** (Davies & Györkös, 1988) ..... Australia (Australian Capital Territory, Victoria)  
**terebrans** (Tonnoir, 1925) ..... Australia (Victoria, Australian Capital Territory, NSW)

## Genus SIMULIUM Latreille

**SIMULIUM** Latreille, 1802 (as genus). Type species: *colombaschense* (monotypy)  
*SIMULIA*: incorrect subsequent spelling (originally from Olfers, 1816)  
 [MELUSINA: authors, from Hendel (1908), error based on type misidentification]  
 [ATRACTOCERA: Meigen, 1803, 1804 (misidentified), ICZN Opinion 1174]

### Subgenus AFROSIMULIUM Crosskey

**AFROSIMULIUM** Crosskey, 1969 (as genus). Type species: *gariépense* (original designation)

**gariépense** De Meillon, 1953 ..... South Africa (Free State, EC, NC); Lesotho, Namibia

### Subgenus ANASOLEN Enderlein

**ANASOLEN** Enderlein, 1930 (as genus). Type species: *dentulosum*, as *adolffriedericianus* (original designation)  
*XENOSIMULIUM* Crosskey, 1969 (as subgenus of *Simulium*). Type species: *imerinae* (original designation)

#### DENTULOSUM species-group

- bisnovem** Gibbins, 1938 ..... Uganda; Democratic Republic of Congo  
*edwardsi* Gibbins, 1937 (unav., *nomen nudum*)  
*bisnoveum*: incorrect subsequent spelling
- dentulosum** Roubaud, 1915\*\*\* ..... Uganda; Angola, Burkina Faso, Cameroon, Democratic Republic of Congo, Equatorial Guinea (Bioko), Eritrea, Ethiopia, Ghana, Guinea, Kenya, Lesotho, Malawi, Nigeria, Rwanda, São Tomé and Príncipe (Príncipe, São Tomé), Sierra Leone, South Africa (EC, G, KZN, L, M, WC), South Sudan, Sudan, Swaziland, Tanzania, Togo, Zimbabwe. ['Britain' error]  
*gilvipes* Pomeroy, 1920 [Cameroon]  
*adolffriedericianum* (Enderlein, 1930) [Rwanda]  
*ruwenzoriense* Gibbins, 1934 [Uganda]  
*emfulae* De Meillon, 1937 [South Africa (KwaZulu Natal)]  
*britannicum* Davies, 1966 [? East Africa, 'Britain' error]  
*trifurcatum* Fain, Bafort & Silberstein, 1976 (ssp.) [Kenya]  
*altissimum* Fain, Bafort & Silberstein, 1977 (ssp.) [Kenya]  
*bambusicola* Fain, Bafort & Silberstein, 1977 (ssp.) [Kenya]  
 'Mbabo' Fain & Elsen, 1973 (morphoform)  
*dentusolum*: incorrect subsequent spelling  
*adolffriedricianus*: incorrect original spelling  
*ruvenzorense*: incorrect subsequent spelling
- heptaspicae** Gouteux, 1977 ..... Democratic Republic of Congo
- kauntzeum** Gibbins, 1938 ..... Uganda; Democratic Republic of Congo  
*kauntzeum* Gibbins, 1936 (unav., *nomen nudum*)
- masabae** Gibbins, 1934 ..... Uganda
- ngabogei** Fain, 1950 ..... Rwanda
- nili** Gibbins, 1934 ..... Uganda; Ethiopia, Kenya, Saudi Arabia, Yemen
- octospicae** Gibbins, 1937 ..... Uganda
- rhodesiense** De Meillon, 1942 ..... Zimbabwe
- shoae** Grenier & Ovazza, 1956 ..... Ethiopia
- voltae** Grenier, Ovazza & Valade, 1960 ..... Ivory Coast

#### IMERINAE species-group

- ambositrae** Grenier & Grjebine, 1959 [1958] ..... Madagascar  
 [*neireti*: Grenier & Doucet, 1950 (part), not Roubaud]
- griveaudi** Ovazza & Ovazza, 1970 ..... Madagascar
- imerinae** Roubaud, 1905 ..... Madagascar (incl. Nosy Bé Island); Comoro Islands  
 'M1' Grenier & Doucet, 1950 (*Simulium* sp.) (Mohéli[?])
- iphias** De Meillon, 1951 ..... Madagascar

'8f' Gibon, Elouard & Sartori, 1996 (pupal filament number form)	
'10f' Gibon, Elouard & Sartori, 1996 (pupal filament number form)	
'15f' Gibon, Elouard & Sartori, 1996 (pupal filament number form)	
'19f' Gibon, Elouard & Sartori, 1996 (pupal filament number form)	
<b>neireti</b> Roubaud, 1905 .....	Madagascar

### Subgenus ASIOSIMULIUM Takaoka & Choochote

**ASIOSIMULIUM** Takaoka & Choochote, 2005 (as subgenus of *Simulium*). Type species: *oblongum* (original designation)

<b>furvum</b> Takaoka & Srisuka, 2013 [ <i>in</i> Takaoka, Srisuka, Saeung & Choochote] .....	Thailand
<b>oblongum</b> Takaoka & Choochote, 2005 .....	Thailand
'E' Phasuk, 2006 (thesis) ( <i>Simulium</i> sp.)	
<b>phurueaense</b> Tangkawanit, Wongpakam & Pramual, 2018 .....	Thailand
<b>saeungae</b> Takaoka & Srisuka, 2018 [ <i>in</i> Takaoka, Srisuka & Saeung] .....	Thailand
<b>shanense</b> Takaoka, Srisuka & Saeung, 2017 [ <i>in</i> Takaoka, Srisuka, Maleewong & Saeung] .....	Burma
'sp.' Takaoka, Srisuka, Maleewong & Saeung, 2018	
<b>suchitrae</b> Takaoka, 2010 [ <i>in</i> Takaoka & Shrestha] .....	Nepal
<b>wanchaii</b> Takaoka & Choochote, 2006 .....	Thailand
? 'D' Phasuk, 2006 (thesis) ( <i>Simulium</i> sp.)	

### Subgenus ASPATHIA Enderlein

**ASPATHIA** Enderlein, 1935 (as genus). Type species: *hunteri* (original designation)

*JALACINGOMYIA* Py-Daniel, 1994 [*in* Py-Daniel & Moreira Sampaio] (as genus). Type species: *anduzei* (original designation)

<b>anduzei</b> Vargas & Díaz Nájera, 1948 .....	Mexico (Veracruz, FD, Ox); Guatemala, USA (Ari, NM)
<i>patziciaense</i> Takaoka & Takahasi, 1982 [Guatemala]	
<i>patzicianense</i> : incorrect subsequent spelling	
<b>bustosi</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Veracruz, Ox)
<b>costalimai</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Morelos, Ox)
[ <i>jacumbae</i> : Vargas <i>et al.</i> , 1943, not Dyar & Shannon]	
<b>covagarciai</b> Ramírez-Pérez, Yarzabal, Takaoka, Tada & Ramírez, 1984 .....	Venezuela; Brazil (Ror)
<b>hechti</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Federal District, Du, Mo); USA (Ari, NM)
<i>hetchi</i> : incorrect subsequent spelling	
[ <i>sayi</i> : Vargas <i>et al.</i> , 1943, not Dyar & Shannon]	
<b>horacioi</b> Okazawa & Onishi, 1980 (complex)§§ .....	Guatemala; Costa Rica, French Guiana Mexico (Chiapas, Ox), Panama, Venezuela
'sp.' Onishi, Okazawa & Ochoa, 1977	
'1' Ito, Tanaka & Ochoa, 1980	
'black tip' Mantel, 1982 (thesis) ( <i>metallicum</i> cytoform) .....	Colombia
'H' Conn, 1988 (thesis) ( <i>metallicum</i> cytoform, typical) .....	Guatemala
'I' Conn, 1988 ( <i>metallicum</i> cytoform) .....	Guatemala, Mexico
'J' Conn, 1988 ( <i>metallicum</i> cytoform) .....	Costa Rica, Panama
'K' Conn, 1988 ( <i>metallicum</i> cytoform) .....	Panama
? 'sp2' Hamada & Fouque, 2001 (morphoform)	
'nr. <i>horacioi</i> ' Hernández-Triana, Chaverri, Rodríguez-Pérez, Prosser, Hebert, Gregory & Johnson, 2015 ( <i>Simulium</i> sp.)	
'N' Adler, Borkent, Hamada & McCreadie, 2017 (cytoform) .....	Costa Rica
<b>hunteri</b> Malloch, 1914 .....	USA (Colorado, Alaska, Ari, Cal, Idaho, Mon, Nev, NM, Oregon, SD, Texas, Utah, Was, Wyo); Canada (Alb, BC incl. Queen Charlotte Islands, Sask, Yukon), Mexico (FD, Gj, Mi, MS, Vz)
<i>lassmanni</i> Vargas, Martínez Palacios & Díaz Nájera, 1946 [Mexico (Mexico State)]	
<b>iriartei</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Federal District, Du, Gu, Ox, Vz); USA (Ari,

[ <i>hirtipes</i> : Vargas, 1943, not Fries]	NM)
<b>jacumbae</b> Dyar & Shannon, 1927 .....	USA (California, Ari, Col, Kan, Neb, Nev, Texas, Wyo); Guatemala, Mexico (Ch, Hi, Ja, Mi, Ox, Vz)
<i>guatemalense</i> De León, 1945 [1944] [Guatemala]	
‘nr. <i>abditoides</i> ’ Snyder & Huggins, 1980 ( <i>Cnephia</i> )	
<b>jobbinsi</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Chiapas, Ox, Vz); Guatemala
<i>jobbinsi</i> : incorrect subsequent spelling	
<b>kompi</b> Dalmat, 1951 .....	Guatemala; Mexico (Ch)
<b>marquezi</b> Vargas & Díaz Nájera, 1957 .....	Mexico (Federal District, Ca, Mo)
<i>marquesi</i> : incorrect subsequent spelling	
[ <i>vandalicum</i> : Vargas, 1945 / Vargas <i>et al.</i> , 1946, not Dyar & Shannon]	
<b>matteabanchium</b> Anduze, 1947 .....	Venezuela; Colombia, Mexico (? state)
<b>metallicum</b> Bellardi, 1859 [1861] (complex) .....	Mexico ([no type loc.], Ca, Ch, Co, Du, Gu, Hi, Ja, Mi, Mo, MS, Na, NL, Ox, Pu, Si, SLP, So, Ta, Tb, Vz); Belize, Brazil (Par, Ror, SP), Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Honduras, Jamaica, Nicaragua, Panama, Peru (Huá, Piura), Trinidad, Venezuela
<i>riveti</i> Roubaud, 1906 [Ecuador]	
<i>nitidum</i> Malloch, 1912 [Peru (Piura)]	
<i>versicolor</i> Lutz & Nuñez Továr, 1928 [ <i>in</i> Lutz] [Venezuela]	
<i>avidum</i> Hoffmann, 1930 [Mexico (Chiapas)]	
<i>violascens</i> Enderlein, 1934 [Mexico (? state)]	
‘A’ Hirai, 1983 / Conn, 1988 (cytoform, typical) .....	Guatemala, Mexico
‘narrow stream’ Mantel, 1982 (thesis) (cytoform) .....	Guatemala
‘wide stream’ Mantel, 1982 (thesis) (cytoform) .....	Guatemala
‘B’ Hirai, 1983 / Conn, 1988 (cytoform) .....	Costa Rica, Guatemala, Mexico
‘C’ Conn, 1988 (cytoform) .....	Colombia
[standard] Mantel, 1982 (thesis) (cytoform)	
‘D’ Conn, 1988 (cytoform) .....	Venezuela
‘Margarita’ Hirai, 1985 (cytoform)	
‘Merida’ Hirai, 1985 (cytoform)	
‘E’ Conn, 1988 (cytoform) .....	Venezuela
‘Maturin’ Hirai, 1985 (cytoform)	
‘F’ Conn, 1988 (cytoform) .....	Panama
‘G’ Conn, 1988 (cytoform) .....	Costa Rica
‘Aserri’ Mantel, 1982 (thesis) (cytoform)	
‘X’ Millest, 1989 (thesis) (cytoform) .....	Mexico (Oaxaca)
‘L’ Arteaga & Muñoz de Hoyos, 1999 (cytoform) .....	Colombia
‘sp1’ Hamada & Fouque, 2001 (morphoform) .....	French Guiana
‘nr. <i>metallicum</i> ’ Hernández-Triana, Prosser, Rodríguez-Pérez, Chaverri, Hebert, Gregory, 2014 ( <i>Simulium</i> sp.) .....	Ecuador
‘M’ Adler, Borkent, Hamada & McCreddie, 2017 (cytoform) .....	Ecuador
‘O’ Adler, Borkent, Hamada & McCreddie, 2017 (cytoform) .....	Brazil (SP)
<b>morae</b> Ramírez-Pérez, Rassi & Ramírez, 1977 .....	Venezuela
<b>parrai</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Veracruz, Ox); Guatemala
<b>piperi</b> Dyar & Shannon, 1927 .....	USA (Washington, Ari, Cal, Col, Idaho, Mon, Neb, Nev, NM, Ore, SD, Texas, Utah, Wyo); Canada (Alb, BC, Sask), Mexico (FD)
<i>sayi</i> Dyar & Shannon, 1927 [USA (Colorado)]	
<i>knowltoni</i> Twinn, 1938 [USA (Utah)]	
<i>stonei</i> Stains & Knowlton, 1943 [USA (Utah)]	
<b>puigi</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Chiapas, Ag, Ox, Vz); Costa Rica, Guatemala, USA (NM)
‘nr. <i>puigi</i> ’ Hernández-Triana, Chaverri, Rodríguez-Pérez, Prosser, Hebert, Gregory & Johnson, 2015 ( <i>Simulium</i> sp.) ...	Costa Rica
<b>putre</b> Coscarón & Matta, 1982 .....	Chile (Tarapacá)
<b>racenisi</b> Ramírez-Pérez, 1971 .....	Venezuela
‘G’ Lewis & Ibáñez Aldecoa, 1962 / Lewis, 1963 ( <i>Simulium</i> sp.)	
<b>ruizi</b> Vargas & Díaz Nájera, 1948 .....	Mexico (Veracruz, MS, Ox)
<b>sandyi</b> Coscarón, Ibáñez-Bernal & Coscarón-Arias, 1999 .....	Mexico (Mexico State/Morelos)
<b>spilmani</b> Stone, 1969 .....	Dominica
<b>tescorum</b> Stone & Boreham, 1965 .....	USA (California, Ari)
<b>tricornis</b> De León, 1945 .....	Guatemala; Mexico (Ch)
‘C’ De León, 1943 ( <i>Simulium</i> sp.)	
<b>wygoi</b> Coscarón, Ibáñez-Bernal & Coscarón-Arias, 1999 .....	Mexico (Federal District)

### Subgenus BOOPHTHORA Enderlein

**BOOPHTHORA** Enderlein, 1921 (as genus). Type species: *erythrocephalum*, as *argyreata* [misidentified] (original designation)  
*PSEUDOSIMULIUM* Baranov, 1926 (preocc.) (as subgenus of *Simulium*). Type species: *erythrocephalum*, as *argyreata*  
 [misidentified] (original designation)  
*BOOPHTHORA*, *BOOPHTHORA*: incorrect subsequent spellings

- bujakovi** Rubtsov, 1940 ..... Siberia (Irkutskaya ES)  
*bujakovi* Rubtsov, 1939 (unav., *nomen nudum*)  
*bujakovae*: incorrect subsequent spelling
- erythrocephalum** (De Geer, 1776, as *erythrocephala*) ..... [Sweden]; Armenia, Austria, Belarus, Belgium, Britain  
*sericatum* Meigen, 1830 [? Denmark or Germany] (En, Sc, Wa), China (Xi), Croatia, Czech Republic,  
*tenuifrons* Enderlein, 1921 [April] (unav., *nomen nudum*) Denmark, Estonia, Finland, France, Germany, Greece,  
*tenuifrons* Enderlein, 1921 [June] (available) [Germany] Hungary, Ireland, Italy (incl. Sardinia), Kazakhstan,  
*sinense* (Enderlein, 1934) [1933] [China (? province)] Latvia, Lithuania, Moldova, Netherlands, Norway,  
*mihalyii* (Rubtsov, 1967) [Hungary] Poland, Portugal, Romania, Russia (CR, KM, NR, SR),  
*chelevini* (Ivashchenko, 1968) [Russia (Ivanovo)] Serbia, Siberia (ES, FE, WS), Slovakia, Slovenia,  
 ‘aff. *aureum* sp. 3’ Rubtsov, 1959 [in Dunbar] (*Simulium*, part) Spain, Switzerland, Turkey, Ukraine, Tunisia (?),  
 ‘aff. *aureum* sp. 4’ Rubtsov, 1959 [in Dunbar] (*Simulium*, part) Mongolia (?)  
*enrythrocephala*, *eritrocephala*, *erithrocephala*, *erythrocephala*,  
*erythrocephala*, *erythrocephala*: incorrect subsequent spellings  
 [*argyreata*: authors, not Meigen]
- guiyangense** Chen, Liu & Yang, 2016 [in Chen] ..... China (Guizhou)
- makunbei** (Ono, 1977) ..... Japan (Hokkaido)
- quattuorfile** Chen, Wu, Yang, 2010 ..... China (Liaoning, He)  
*quattaorfile*: incorrect subsequent spelling
- yonagoense** Okamoto, 1958 ..... Japan (Honshu, Ky)  
 ‘J-11’ Bentinck, 1955 (*Simulium* sp.)  
*yonagiens*, *yonagoensen*: incorrect subsequent spellings

### Subgenus BOREOSIMULIUM

**BOREOSIMULIUM** Rubtsov & Yankovsky, 1982 (as genus). Type species: *annulus* (original designation)  
 [*HELLICHIA*: Rubtsov, 1956, not Enderlein]

#### ANNULUS species-group

- annae** (Rubtsov, 1956) ..... Russia (St Petersburg CR); Sweden (?)
- annulus** (Lundström, 1911) ..... Finland; Canada (Alb, Lab, Man, NB, Nfld, Nun, NWT,  
*euryadmiculum* Davies, 1949 [Canada (Ontario)] Ont, Que, Sask), Norway, Russia (CR, KM), Sweden,  
*elburnum* (Rubtsov & Carlsson, 1965)† [Russia (Permskaya CR)] USA (Mic, NY, Wis), Mongolia (?), Siberia (ES, WS)  
*annula*, *annulum*: incorrect subsequent spellings (?)  
 [*annuliforme* (male): authors]  
 [*canonicolum* (part): authors (central Canada), not Dyar & Shannon]  
 [*minutissimum*: Rubtsov, 1956, not Zetterstedt]  
 [*johannseni*: Rivera & Currie, 2009, not Hart]
- balteatum** Adler, Currie & Wood, 2004 ..... USA (California, Alaska, Idaho, Ore, Was, Wyo);  
 ‘Undescribed species’ Corkum & Currie, 1987 (*Simulium*) Canada (Alb, BC, Yukon)  
 ‘near *canonicolum*’ Currie, 1997 / McCreadie, Adler & Burger,  
 1997 (*Simulium*)  
 [*clarum*: Hearle, 1932, not Dyar & Shannon]
- canonicolum** (Dyar & Shannon, 1927) ..... USA (Wyoming, Ari, Col, Idaho, Mon, Nev, NM, Utah);  
*canonica* Peterson & Kondratieff, 1995 [1994] Canada (Alb, Yukon)  
 (unnecessary emendation)  
 [*pugetense*: Peterson, 1955, not Dyar & Shannon]

[ <i>baffinense</i> : Lichtwardt, 1984, not Twinn]	
<b>clarkei</b> Stone & Snoddy, 1969 .....	USA (Virginia, Geo, NC, Ten, SC)
‘4’ Snow, Pickard & Jones, 1958 ( <i>Simulium</i> sp.)	
‘near <i>clarkei</i> ’ McCreadie & Adler, 1998 ( <i>Simulium</i> )	
<b>emarginatum</b> Davies, Peterson & Wood, 1962 [1961] .....	Canada (Ontario, Que); USA (Ark, Mic, NC, NJ, Pen, SC, Vir, Wis, WV)
‘n. sp.’ Bennett, 1960 ( <i>Simulium</i> / <i>Eusimulium</i> )	
‘near <i>emarginatum</i> ’ Adler, 1983 (thesis) ( <i>Simulium</i> sp.)	
<b>joculator</b> Adler, Currie & Wood, 2004 .....	USA (California, Idaho)
<b>konoi</b> (Takahasi, 1950) .....	Japan (Hokkaido, Hon, Ky, Sh); China (Li), Korea (South), Siberia (FE incl. Kurile Islands and Sakhalin)
<i>yamayaense</i> Ogata & Sasa, 1954 [Japan (Honshu)]	
<i>liaodongense</i> Sun, 2012††† [China (Liaoning)]	
‘J-9’ Bentinck, 1955 ( <i>Simulium</i> sp.)	
<b>olonicum</b> (Usova, 1961) .....	Russia (Karelia KM); Norway, Sweden (?)
<b>quadratum</b> (Stains & Knowlton, 1943) .....	USA (Utah, Cal, Idaho, Was, Wyo)
‘near Hinton’, McCreadie, Adler & Burger, 1997 ( <i>Simulium</i> )	
? [ <i>clarum</i> : authors, not Dyar & Shannon, 1927]	
<b>tokachiense</b> Takaoka, Otsuka & Fukuda, 2006 .....	Japan (Hokkaido)
<b>ustulatum</b> Adler & Huang, 2022 .....	USA (California)
<b>zephyrus</b> Adler, Currie & Wood, 2004 .....	USA (Oregon, Cal, Mon, Was); Can (Alb)
? ‘#1’ Speir, 1969 (thesis) ( <i>Simulium</i> sp.)	
‘Hinton’ Golini & Rothfels, 1984 ( <i>Eusimulium</i> )	

#### BAFFINENSE species-group

<b>annuliforme</b> (Rubtsov, 1962)*, † .....	Russia (Murmansk KM)
[ <i>latifrons</i> : Rubtsov, 1956, not Enderlein]	
<b>arcticum</b> (Rubtsov, 1956) .....	Russia (Murmansk KM); Norway
<i>mixtum</i> Raastad, Kuusela & Usova, 2010 (unav., <i>nomen nudum</i> , attrib. Rubtsov)†	
<i>arcticum</i> : incorrect subsequent spelling	
<b>baffinense</b> Twinn, 1936 .....	Canada (Nunavut: Baffin Island and mainland, Alb, BC, Man, NWT, Que, Yukon); Finland, Norway, Russia (KM), Siberia (ES, FE, WS), Sweden, USA (Alaska, Utah)
<i>pallens</i> Twinn, 1936 [Canada (Nunavut [as NWT]: Baffin Island)]	
‘new species 1’ Jenkins, 1948 ( <i>Eusimulium</i> )	
<i>palens</i> : incorrect subsequent spelling	
<b>crassum</b> (Rubtsov, 1956) .....	Russia (Karelia KM); Finland, Norway, Siberia (WS), Sweden

#### JOHANNSENI species-group

<b>johannseni</b> Hart, 1912 [ <i>in</i> Forbes] .....	USA (Illinois, Ala, Iowa, Min, ND, Neb, SC, Wis, Wyo); Canada (Alb, Man, Sask)
<i>duplex</i> Shewell & Fredeen, 1958 [Canada (Saskatchewan)]	
‘near <i>johannseni</i> ’ MacNay, 1954 / Edwards & Meyer, 1987 / Benke & Parsons, 1990 ( <i>Eusimulium</i> / <i>Simulium</i> )	
‘2’ Fredeen, 1956 ( <i>Simulium</i> )	
‘A’ Gleason, 2012 (thesis) (cytoform) .....	USA (Wis)
‘B’ Gleason, 2012 (thesis) (cytoform) .....	USA (Ala, SC)
<i>johannense</i> : incorrect subsequent spelling	
<b>parmatum</b> Adler, Currie & Wood, 2004 .....	USA (South Carolina, Ala, Ark, Flo, Geo, Lou, NC, Ten, Texas)
[ <i>meridionale</i> (part): authors (southeastern USA), not Riley]	
<b>rothfelsi</b> Adler, Brockhouse & Currie, 2003 .....	Canada (Nova Scotia)

#### Subgenus BYSSODON Enderlein

- BYSSODON** Enderlein, 1925 (as genus). Type species: *meridionale*, as *forbesi* (original designation)  
*PSILOCNETHA* Enderlein, 1935 (as genus). Type species: *griseicolle*, as *scapulata* (original designation)  
*TITANOPTERYX* Enderlein, 1935 (as genus). Type species: *maculatum* (original designation)  
*ECHINOSIMULIUM* Baranov, 1938 (as genus). Type species: *maculatum*, as *echinatum* (original designation)

*GIBBINSIELLUM* Rubtsov, 1962 (as genus). Type species: *griseicolle* (original designation)

GRISEICOLLE species-group

<b>almae</b> (Yankovsky & Koshkimbaev, 1988) .....	Kazakhstan
<b>bifila</b> Freeman & De Meillon, 1953 .....	South Sudan; Central African Republic
‘sp. n.’ Lewis, 1948 ( <i>Simulium</i> )	
‘var. n.’ Lewis, 1953 ( <i>Simulium griseicolle</i> )	
<b>buxtoni</b> Austen, 1923 (as <i>bipunctatum</i> var.) .....	Jordan; Iraq (Euphrates/Tigris valleys)
<i>bipunctatum</i> Austen, 1923 (preocc.) [Iraq]	
<i>irakae</i> Smart, 1944 (unnecessary subst. name, for <i>bipunctatum</i> )	
<i>bipanctatum</i> : incorrect subsequent spelling	
<b>griseicolle</b> Becker, 1903 .....	Egypt; Benin, Botswana, Burkina Faso, Cameroon,
<i>scapulatum</i> (Enderlein, 1935) [Egypt]	Central African Republic, Congo, Democratic Republic
<i>dentulatum</i> Wanson & Henrard, 1944 [Democratic	of Congo, Niger, Nigeria, Senegal, South Africa (EC,
Republic of Congo]	FS, M, NC), South Sudan, Sudan, Uganda, Zambia (?)
? ‘US 1’ Sorungbe & Adegoke, 2012 ( <i>Simulium</i> sp.)	
<b>languidum</b> Davies & Györkös, 1988 .....	Sri Lanka
<b>tridens</b> Freeman & De Meillon, 1953§ .....	Ghana; Benin, Burkina Faso, Guinea, Guinea-Bissau,
	Ivory Coast, Liberia, Malawi, Mali, Nigeria, Senegal,
	Sierra Leone, Togo, Zambia
<b>trisphaerae</b> Wanson & Henrard, 1944 .....	Democratic Republic of Congo
<i>trisphearae</i> : incorrect subsequent spelling	

MERIDIONALE species-group

<b>brunneum</b> (Yankovsky, 1977) .....	Siberia (Khabarovsk FE)
<b>heptapotamicum</b> Rubtsov, 1940 .....	Kazakhstan; Azerbaijan, Iran, Tajikistan, Turkmenistan
<b>maculatum</b> (Meigen, 1804) .....	Germany; Belarus, China (He, IM, Xi), Italy,
<i>pungens</i> (Meigen, [1806]) [ <i>in</i> Panzer] (unnecessary subst. name)	Kazakhstan, Lithuania, Moldova, Mongolia, Poland,
<i>subfasciatum</i> Meigen, 1838 [Germany]	Romania, Russia (CR, NR), Serbia, Siberia (ES, FE,
<i>vigintiquaterni</i> (Enderlein, 1929) [Germany]	WS), Ukraine, USA (Alaska). [Old records for other
<i>echinatum</i> (Baranov, 1938) [Serbia]	countries (notably Britain, France, and Spain)
<i>ussurianum</i> Rubtsov, 1940 [Siberia (Khabarovsk)]	erroneous, applying mainly to species of subgenus
<i>koidzumii</i> (Takahasi, 1940) [China (Inner Mongolia)] ##	<i>Wilhelmia</i>
<i>danubense</i> (Rubtsov, 1956) [Serbia/Romania]	[Yankovsky, 2003 [2002] treats <i>koidzumii</i> as valid sp.
<i>uralense</i> (Rubtsov, 1956) [Kazakhstan]	with <i>gutsevitshi</i> as synonym]
<i>lenae</i> (Rubtsov, 1956) [Siberia (Yakutskaya)]	
<i>gutsevitshi</i> (Yankovsky, 1978) [Siberia (Yevreyskaya)]	
<i>coidzumii</i> : incorrect subsequent spelling	
<i>echinatuma</i> : incorrect subsequent spelling	
<i>macularus</i> , <i>maculeta</i> , <i>maculates</i> : incorrect subsequent spellings	
<i>viginti Quarterni</i> : incorrect subsequent spelling	
[ <i>meridionale</i> : Stone, 1952 / Hopla, 1965, not Riley]	
<b>meridionale</b> Riley, 1887 [1886] .....	USA (Mississippi, Ala, Ark, Cal, Col, Flo, Idaho, Ill,
<i>occidentale</i> Townsend, 1891 [USA (New Mexico)]	Iowa, Kan, Lou, Min, Misr, Mon, ND, Neb, Nev, NM,
<i>tamaulipense</i> Townsend, 1897 [Mexico (Tamaulipas)]	Okl, SD, Texas, Utah, Wis, Wyo); Canada (Alb, Man,
<i>forbesi</i> Malloch, 1914 [USA (Illinois)]	NWT, Sask), Mexico (Ta)
<i>meribionale</i> , <i>meridianole</i> , <i>meriodionale</i> : incorrect	
subsequent spellings	
[ <i>taeniatifrons</i> : Gaard, 2002, not Enderlein]	
<b>pseudonearcticum</b> Rubtsov, 1940 .....	Siberia (Kamchatka FE)

**Subgenus CHIROSTILBIA Enderlein**

**CHIROSTILBIA** Enderlein, 1921 (as genus). Type species: *pertinax*, as *flavifemur* (original designation)

<b>bifenestratum</b> Hamada & Pepinelli, 2004 .....	Brazil (São Paulo)
<b>brunnescens</b> Maia-Herzog, Valente, Luna-Dias, Gil-Azevedo & Marchon-Silva, 2012 .....	Brazil (Mato Grosso)
<b>dekeyseri</b> Shelley & Py-Daniel, 1981 .....	Brazil (Brasilia Federal District, Bahia, Goiás, MG, MGr, MGrS, Par, RJ, SP)
<b>distinctum</b> Lutz, 1910 .....	Brazil (São Paulo, ES, MG, Par, RGS, RJ, SC)
<i>prumirimense</i> Coscarón, 1981 [Brazil (São Paulo)]	
[ <i>pertinax</i> : Lane & Porto, 1929 / Vargas, 1945, not Kollar]	
<b>empascae</b> Py-Daniel, Souza & Caldas, 1988 .....	Brazil (Santa Catarina, RGS, RJ, SP)
<b>friedlanderi</b> Py-Daniel, 1987 .....	Brazil (Mato Grosso, SP)
<b>jefersoni</b> Hamada, Hernández, Luz & Pepinelli, 2006 .....	Brazil (Bahía)
<b>obesum</b> Vulcano, 1959 .....	Brazil (São Paulo, MG, RGS, RJ, SC)
<i>obesum</i> Lutz, 1922 (unav., <i>nomen nudum</i> )	
<i>obesum</i> Pinto, 1932 [1931] (unav., <i>nomen nudum</i> )	
<b>papaveroi</b> Coscarón, 1982 .....	Brazil (Minas Gerais, Bahía)
<b>pertinax</b> Kollar, 1832 [ <i>in</i> Pohl and Kollar, and <i>in</i> Pohl] .....	Brazil (São Paulo, Amz, Bahía, BFD, ES, Goiás, MG, MGr, MGrS, Par, Pba, RGS, RJ, Ron, Ror, SC, Toc); Argentina (Cos, ER, Mis), Bolivia, Paraguay
<i>inexorable</i> Schrottky, 1909 [Argentina/Brazil]	
<i>infuscatum</i> Lutz, 1909 [Brazil (Rio de Janeiro/São Paulo)]	
<i>flavifemur</i> (Enderlein, 1921 [April]) (available) [Brazil (? state)]	
<i>lutzianum</i> (Enderlein, 1934) [1933] (preocc.) [Paraguay]	
<i>septentrionale</i> Cerqueira & Barbosa de Almeida, 1970 (preocc.) [Brazil (Rondonia)]	
<i>cerqueirai</i> Barbosa de Almeida, 1974 [ <i>in</i> Nunes de Mello & Barbosa de Almeida] (subst. name)	
<i>cerqueirai</i> Barbosa de Almeida, 1979 (unnecessary subst. name, duplicated publ.)	
<i>cerqueira</i> : incorrect subsequent spelling	
[ <i>venustum</i> : Lutz, 1909, not Say]	
[ <i>distinctum</i> : Pinto, 1932 [1931], not Lutz]	
[ <i>paraguayense</i> : Pinto, 1932 [1931], not Schrottky]	
<b>riograndense</b> Py-Daniel, Souza & Caldas, 1988 .....	Brazil (Rio Grande do Sul, Par, RJ, SP, SC)
<b>serranus</b> Coscarón, 1981 .....	Brazil (Minas Gerais, MGr, SP)
<i>serranus</i> : incorrect subsequent spelling	
<b>spinibranchium</b> Lutz, 1910 .....	Brazil (São Paulo, Bahía, BFD, ES, Goiás, MG, MGr, MGrS, Par, Per, RGS, RJ, Ror, SC, Toc); Bolivia, Guyana, Venezuela
<i>striginotum</i> (Enderlein, 1934) [1933] [Bolivia]	
<i>pilosum</i> Lane & Porto, 1940 [ <i>in</i> Porto] (preocc.) [Brazil (Mato Grosso)]	
<i>laneportoi</i> Vargas, 1941 (subst. name) [Brazil (Minas Gerais)]	
<i>lane-porteroi</i> : incorrect subsequent spelling	
<i>pilosum</i> : incorrect subsequent spelling	
<b>subpallidum</b> Lutz, 1910 .....	Brazil (Minas Gerais, Alagoas, Amapá, Bahía, BFD, Ceará, ES, Goiás, MGr, MGrS, Par, Pará, Per, RGS, RJ, Ror, SC, SP, Toc); Argentina (BA, ER, Mis), Guyana, Paraguay, Uruguay, Venezuela
<i>subviride</i> Lutz & Machado, 1915 (unav., <i>nomen nudum</i> )	
<i>guerreroi</i> Ramírez-Pérez, 1971 [Venezuela]	
<i>acarayense</i> Coscarón & Wygodzinsky, 1972 [Paraguay]	
<i>guarani</i> Coscarón & Wygodzinsky, 1972 [Paraguay]	
<i>nilesi</i> Rambajan, 1979 [1975] [Guyana]	
<b>vitribasi</b> Hamada, Nascimento & Pepinelli, 2015 .....	Brazil (São Paulo, MG)

#### Subgenus CROSSKEYELLUM Grenier & Bailly-Choumara

**CROSSKEYELLUM** Grenier & Bailly-Choumara, 1970 (as subgenus of *Simulium*). Type species: *gracilipes* (original designation)

<b>gracilipes</b> Edwards, 1921 .....	Morocco; Algeria
<b>zagros</b> (Yankovsky, 2010) .....	Iran

#### Subgenus DAVIESELLUM Takaoka & Adler



**DAVIESELLUM** Takaoka & Adler, 1997 (as subgenus of *Simulium*). Type species: *pahangense* (original designation)

- courtneyi** Takaoka & Adler, 1997 ..... Thailand  
**pahangense** Takaoka & Davies, 1995 ..... Malaysia (Malaya); Thailand  
*unidens* (Takaoka & Davies, 1995) [Malaysia (Malaya)]

### Subgenus DISCULTER Molina & Gil-Azevedo

**DISCULTER** Molina & Gil-Azevedo, 2021 (as subgenus of *Simulium*). Type species: *oviedoi* (original designation)

- oviedoi** Ramírez-Pérez, 1971\*, §§§§, # ..... Venezuela  
**rivasi** Ramírez-Pérez, 1971\*, §§§§, # ..... Venezuela  
*ribai*, *ribasi*, *rivai*: incorrect original spellings

### Subgenus EDWARDSELLUM Enderlein

**EDWARDSELLUM** Enderlein, 1921 (as genus). Type species: *damnosum* (original designation)

- buisseti** Fain & Elsen, 1980 ..... Democratic Republic of Congo  
*buisseti*: incorrect subsequent spelling
- damnosum** s. str ..... Uganda; Benin, Burkina Faso, Cameroon, Central African Republic, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone, South Sudan, Sudan, Togo
- ‘Nile’ Dunbar, 1966 (cytoform) ..... Benin, Cameroon, Niger, Nigeria, Sudan, Uganda  
‘Volta’ Dunbar & Vajime, 1981 (cytoform) ..... Benin, Burkina Faso, Cameroon, Ghana, Guinea, Ivory Coast, Liberia, Mali, Niger, Nigeria, Senegal, Togo
- damnnosum*, *darnnosum*: incorrect subsequent spellings
- damnosum** Theobald, 1903 (complex)\*\*\* ..... Uganda; Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Congo, Democratic Republic of Congo, Equatorial Guinea (incl. Bioko), Ethiopia, Gabon, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Liberia, Malawi, Mali, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Somalia, South Africa (EC, FS, G, KZN, L, M, NC, NW), South Sudan, Sudan, Swaziland, Tanzania, Togo, Yemen, Zambia, Zimbabwe. [‘Libya’ error]
- ‘Kagera’ Dunbar, 1966 (cytoform) ..... Tanzania/Uganda  
‘Kibwezi’ Dunbar, 1969 (cytoform) ..... Kenya, Tanzania  
    ‘Kibwezi A1’ Procunier & Muro, 1993 (cytoform) ..... Tanzania  
    ‘Kibwezi A2’ Procunier & Muro, 1993 (cytoform) ..... Tanzania  
‘Sebwe’ Dunbar, 1969 (cytoform) ..... Tanzania, Uganda  
    ‘Sebwe B’ Dunbar, 1966 (cytoform)  
    ‘Sebwe M’ Dunbar & Vajime, 1971 (cytoform)  
    ‘Sebwe R’ Dunbar & Vajime, 1971 (cytoform)
- ‘Mutonga’ Dunbar & Vajime, 1971/72 (cytoform) ..... Kenya  
‘Kisiwani’ Dunbar & Vajime, 1972 (cytoform) ..... Kenya, Ethiopia, Tanzania  
    ‘Kisiwani E’ Krüger, Car & Maegga, 2005 (cytoform) ..... Ethiopia  
‘Jovi’ Dunbar, 1976 (cytoform) ..... Tanzania  
‘Kapere’ Gouteux, 1976 (morphoform) ..... Democratic Republic of Congo  
‘Turiani’ Dunbar, 1976 (cytoform) ..... Tanzania  
‘Kasongo A’ Elsen & Ancona, 1981 (morphoform) ..... Democratic Republic of Congo  
‘Kasongo B’ Elsen & Ancona, 1981 (morphoform) ..... Democratic Republic of Congo  
‘Kasongo C’ Elsen & Ancona, 1981 (morphoform) ..... Democratic Republic of Congo

‘Kasongo D’ Elsen & Ancona, 1981 (morphoform) .....	Democratic Republic of Congo
‘Kasongo E’ Elsen & Ancona, 1981 (morphoform) .....	Democratic Republic of Congo
‘C’ Vajime & Gregory, 1990 (cytoform) [uncharacterized] .....	Malawi
‘E’ Vajime & Gregory, 1990 (cytoform) [uncharacterized] .....	Malawi
‘Kasyabone A’ Maegga & Cupp, 1994 (cytoform) .....	Tanzania
‘Kasyabone B’ Maegga & Cupp, 1994 (cytoform) .....	Tanzania
<b>dieguerense</b> Vajime & Dunbar, 1975 .....	Mali; Guinea
‘Dieguera’ Dunbar & Vajime, 1972 ( <i>damnosum</i> cytoform)	
<b>juxtadamnosum</b> Gouteux, 1978 [1977] .....	Democratic Republic of Congo
<i>juxtadamnosum</i> Gouteux, 1977 (unav., <i>nomen nudum</i> )	
‘Bubumu’ Gouteux, 1976 ( <i>damnosum</i> morphoform)	
‘Lutumgulu’ Gouteux, 1976 ( <i>damnosum</i> morphoform)	
<i>kaffaense</i> Hadis, Boakye, Wilson & Cobblah, 2005 [ <i>in</i> Hadis, Wilson, Cobblah & Boakye] (unav. under <i>Code Article 16.4.1</i> ; no type) .....	Ethiopia
<i>kaffaense</i> Hadis, Boakye, Wilson & Cobblah, 2004 (unav., <i>nomen nudum</i> )	
‘Jimma’ Dunbar & Vajime, 1981 ( <i>damnosum</i> cytoform, typical)	
‘Bebeka’ Hadis, Boakye, Wilson & Cobblah, 2004 (cytoform)	
‘Ghibe-Gojeb’ Hadis, Boakye, Wilson & Cobblah, 2004 (cytoform) [uncharacterized]	
<b>kilibanum</b> Gouteux, 1977 .....	Democratic Republic of Congo; Burundi, Kenya, Malawi, South Africa (G, M), Swaziland, Tanzania, Uganda
‘Nkusi’ Dunbar, 1969 ( <i>damnosum</i> cytoform) .....	Kenya, South Africa (M), Swaziland, Tanzania, Uganda
‘Nkusi SA’ Krüger, Car & Maegga, 2005 (cytoform) .....	Kenya, South Africa (M), Tanzania, Uganda
‘Nkusi J’ Krüger, 2006 (molecular form) .....	Tanzania
‘Nkusi T’ Krüger, 2006 (molecular form) .....	Tanzania
‘Nkusi U’ Krüger, 2006 (molecular form) .....	Uganda
‘Nkusi SW’ Krüger, Car & Maegga, 2005 (cytoform) .....	Swaziland
‘Sanje’ Dunbar, 1969 ( <i>damnosum</i> cytoform) .....	Malawi, Tanzania, Uganda
‘Sebwe A’ Dunbar, 1966 ( <i>damnosum</i> cytoform)	
‘Sanje T’ Dunbar & Vajime, 1971 ( <i>damnosum</i> cytoform)	
‘Nyamagasani’ Dunbar & Vajime, 1972 ( <i>damnosum</i> cytoform) .....	Democratic Republic of Congo, Tanzania, Uganda
‘Sanje R’ Dunbar & Vajime, 1971 ( <i>damnosum</i> cytoform)	
‘T’ Krüger, 2006 (molecular form).....	Tanzania
‘U’ Krüger, 2006 (molecular form) .....	Democratic Republic of Congo, Uganda
‘Kiliba’ Gouteux, 1976 ( <i>damnosum</i> morphoform)	
‘Njombe’ Krüger, Kalinga, Post & Maegga, 2004 .....	Tanzania
‘Pienaars’ Krüger, Car & Maegga, 2005 (cytoform) .....	South Africa (G, M)
<b>kipengere</b> Krüger, 2006 [ <i>in</i> Krüger, Mustapha, Kalinga, Tambala, Post & Maegga] .....	Tanzania; Malawi
‘Kipengere’ Dunbar, 1976 ( <i>damnosum</i> cytoform, typical) .....	Tanzania
‘Linthipe’ Krüger, Mustapha, Kalinga, Tambala, Post & .....	Malawi
Maegga, 2006 (cytoform)	
‘Mombo’ Krüger, Mustapha, Kalinga, Tambala, Post & .....	Tanzania
Maegga, 2006 (cytoform)	
<b>konkoureense</b> Boakye, Post, Mosha & Quillévééré, 1993 [ <i>in</i> Boakye, Post, Mosha, Surtees & Baker] ...	Sierra Leone; Guinea, Guinea-Bissau, Liberia
‘Konkouré’ Quillévééré, Guillet & Séchan, 1982 ( <i>sanctipauli</i> cytoform) .....	Guinea, Guinea-Bissau
‘Menankaya’ Boakye, Post, Mosha, Surtees & Baker, 1993 (cytoform) .....	Guinea, Sierra Leone
<i>konkoure</i> : incorrect subsequent spelling	
<i>kulfoense</i> Hadis, Wilson, Cobblah & Boakye, 2008 (unav. under <i>Code Article 16.4.1</i> ; no type) .....	Ethiopia
‘Kulfo’ Dunbar, 1969 (cytoform)	
<b>latipollex</b> (Enderlein, 1936) .....	South Africa (‘Transvaal’)

‘Olifants’ Krüger, Car & Maegga, 2005 ( <i>damnosum</i> cytoform) [uncharacterized]	
<b>leonense</b> Boakye, Post & Mosha, 1993 [ <i>in</i> Boakye, Post, Mosha, Surtees & Baker] .....	Sierra Leone; Guinea, Liberia
‘B’ Post & Crosskey, 1985 ( <i>soubrense</i> cytoform)	
<b>luadiense</b> Elsen, Fain, Henry & De Boeck, 1983 .....	Democratic Republic of Congo
<b>machadoi</b> Luna de Carvalho, 1962 .....	Angola; Democratic Republic of Congo
<b>maertensi</b> Elsen, Fain, Henry & De Boeck, 1983 .....	Democratic Republic of Congo
<b>mengense</b> Vajime & Dunbar, [1979] [1977] .....	Cameroon; Central African Republic. [‘Tanzania’ error]
‘Menge’ Dunbar, 1976 ( <i>damnosum</i> cytoform)	
<b>microlepidum</b> Elsen, Fain, Henry & De Boeck, 1983 .....	Democratic Republic of Congo
<b>nganganum</b> Elsen, Fain, Henry & De Boeck, 1983 .....	Democratic Republic of Congo
<b>pandanophilum</b> Krüger, Nurmi & Garms, 1998 .....	Uganda
‘Gitovu’ McCrae, 1969 ( <i>damnosum</i> cytoform)	
‘Kaku’ Dunbar & Vajime, 1971/72 ( <i>damnosum</i> cytoform, typical)	
‘Sogohi’ Krüger, Gelhaus, Yocha, Rubaale & Garms, 1998 (cytoform)	
<b>plumbeum</b> Krüger, 2006 [ <i>in</i> Krüger, Mustapha, Kalinga, Tambala, Post & Maegga] .....	Tanzania; Malawi
‘Ketaketa’ Dunbar, 1969 ( <i>damnosum</i> cytoform) .....	Tanzania
‘Type A’ Davies, 1985 ( <i>damnosum</i> morphoform)	
‘Hammerkopi’ Dunbar, 1976 ( <i>damnosum</i> cytoform) .....	Tanzania
‘Ketaketa C1’ Procunier & Muro, 1993 ( <i>damnosum</i> cytoform) .....	Tanzania
‘Ketaketa C2’ Procunier & Muro, 1993 ( <i>damnosum</i> cytoform) .....	Tanzania
‘Mwamphanzi’ Vajime, Tambola, Krüger & Post, 2000 ( <i>damnosum</i> cytoform, typical) .....	Malawi, Tanzania
[ <i>mengense</i> : Vajime & Dunbar, 1977 (Tanzania)]	
<b>rasyani</b> Garms, Kerner & Meredith, 1988 .....	Yemen
<b>repertum</b> Elsen, Fain, Henry & De Boeck, 1983 .....	Democratic Republic of Congo
<b>sanctipauli</b> Vajime & Dunbar, 1975 .....	Ivory Coast; Ghana, Guinea, Liberia, Mali, Nigeria, Sierra Leone, Togo
‘Bandama’ Dunbar, 1969 ( <i>damnosum</i> cytoform) .....	Ivory Coast, Liberia
‘Djodji’ Surtees, 1986 ( <i>damnosum</i> cytoform and morphoform) .....	Ghana and Togo. [Believed eradicated by Onchocerciasis Control Programme]
‘Comoé’ Boakye, Fiasorgbor, Bougsere & Naniogue, 1999 (cytoform) .....	Ivory Coast
‘Pra’ Boakye, Fiasorgbor, Bougsere & Naniogue, 1999 (cytoform) .....	Ghana
‘Sassandra’ Boakye, Fiasorgbor, Bougsere & Naniogue, 1999 (cytoform) .....	Ivory Coast
<b>sirbanum</b> Vajime & Dunbar, 1975 .....	Niger; Benin, Burkina Faso, Cameroon, Central African Republic, Ghana, Guinea-Bissau, Ivory Coast, Mali, Nigeria, Sierra Leone, Sudan, Togo, Uganda
<i>sudanense</i> Vajime & Dunbar, 1975 [Burkina Faso]	
‘Sirba’ Dunbar & Vajime, 1971 ( <i>damnosum</i> cytoform) .....	Burkina Faso, Ghana, Ivory Coast, Mali, Niger, Nigeria, Togo
‘Type III’ Meredith, Cheke & Garms, 1983 / Fiasorgbor & Cheke, 1992 (morphoform / cytoform) .....	Benin, Burkina Faso, Ghana, Nigeria, Togo
‘Type IV’ Meredith, Cheke & Garms, 1983 / Fiasorgbor & Cheke, 1992 (morphoform / cytoform) .....	Benin, Ghana, Niger, Togo
<i>hamedense</i> Higazi, Boakye, Wilson, Mahmoud, Baroka, Mukhtar & Unnasch, 2000 (unav., <i>nomen nudum</i> ; also as ‘hamedense’ (cytoform and molecular form) .....	Sudan (Abu Hamed)
<i>sirbarum</i> : incorrect subsequent spelling	
<i>soderense</i> Hadis, Wilson, Cobblah & Boakye, 2008 (unav. under Code Article 16.4.1; no type) .....	Ethiopia
‘Sodere’ Hadis, 2006 (thesis) ( <i>damnosum</i> cytoform)	
<b>soubrense</b> Vajime & Dunbar, 1975 .....	Ivory Coast/Burkina Faso; Benin, Ghana, Guinea, Liberia, Mali, Nigeria, Sierra Leone, Togo
‘Soubré’ Dunbar & Vajime, 1971 ( <i>damnosum</i> cytoform)	
‘Beffa’ Meredith, Cheke & Garms, 1983 (cytoform) .....	Benin, Ghana, Nigeria, Togo, Guinea (?), Ivory Coast (?),

	Liberia (?)
‘Farmington’ Güzelhan & Garms, 1987 (cytoform) .....	Liberia
‘St Paul’ Güzelhan & Garms, 1987 (cytoform) .....	Liberia
‘Chutes Milo’ Boakye, Post, Mosha, Surtees & Baker, 1993 (cytoform, typical) .....	Burkina Faso, Guinea, Ivory Coast. [? = <i>soubrense</i> s.str.]
<i>sourense</i> : incorrect subsequent spelling	
<b>squamosum</b> (Enderlein, 1921 [December]) (complex) .....	Cameroon; Benin, Central African Republic, Democratic Republic of Congo, Ivory Coast, Ghana, Guinea, Liberia, Nigeria, Sierra Leone, Togo
<i>squamosum</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	
<i>kitetense</i> Elsen & Post, 1989 (ssp.) [Democratic Republic of Congo]	
‘Bille’ Dunbar & Vajime, 1971 ( <i>damnosum</i> cytoform) .....	Cameroon, Ivory Coast
‘A’ Traoré-Lamizana, Somiari, Mafuyai, Vajime & Post, 2001 (cytoform, typical) .....	Cameroon, Democratic Republic of Congo, Nigeria
‘B’ Traoré-Lamizana, Somiari, Mafuyai, Vajime & Post, 2001 (cytoform) .....	Cameroon, Nigeria
‘C’ Traoré-Lamizana, Somiari, Mafuyai, Vajime & Post, 2001 (cytoform) .....	Benin, Cameroon, Central African Republic, Ghana, Nigeria, Togo
‘D’ Mustapha, Post, Enyong & Lines, 2004 (cytoform) .....	Cameroon
‘E (= type III)’ Post, Mustapha & Krüger, 2007 (cytoform) .....	Ivory Coast, Ghana, Guinea, Liberia, Sierra Leone
‘E2’ Hendy, Krit, Pfarr, De Witte, Nwane, Kamngo, Nana-Djeunga, Boussinesq, Dujardin, Post, Colebunders, O’Neill, Enyong & Njamnshi, 2021 (cytoform) .....	Cameroon
<b>thyolense</b> Vajime, Tambala, Krüger & Post, 2000 .....	Malawi; Tanzania
‘Thyolo’ Vajime & Gregory, 1990 ( <i>damnosum</i> cytoform) .....	Malawi
‘Kiwira’ Maegga & Cupp, 1993 ( <i>damnosum</i> cytoform, typical) .....	Malawi, Tanzania
‘Nyika’ Krüger, Kalinga, Post & Maegga, 2004 (cytoform) .....	Malawi, Tanzania
‘Type C’ Davies, 1985 ( <i>damnosum</i> morphoform)	
<b>vilhenai</b> Luna de Carvalho, 1962 .....	Angola
<b>wambanum</b> Elsen, Fain, Henry & De Boeck, 1983 .....	Democratic Republic of Congo
<b>yahense</b> Vajime & Dunbar, 1975 .....	Liberia; Benin, Cameroon, Equatorial Guinea (Bioko), Ghana, Guinea, Ivory Coast, Nigeria, Sierra Leone, Togo
‘Yah’ Dunbar & Vajime, 1971 ( <i>damnosum</i> cytoform, typical)	
‘Bioko’ Post, 1993 (cytoform) .....	Equatorial Guinea (Bioko) [Believed eradicated by WHO African Programme for Onchocerciasis Control]
<i>jahense</i> : incorrect subsequent spelling	
? ‘US 2’ Sorungbe & Adegoke, 2012 ( <i>Simulium</i> sp. morphoform) .....	Nigeria

### Subgenus EREMULIUM Gil-Azevedo & Coscarón

**EREMULIUM** Gil-Azevedo & Coscarón, 2020 (as subgenus of *Simulium*). Type species: *tenuipes* (original designation)

<b>blancasi</b> Wygodzinsky & Coscarón, 1970 .....	Peru (Lima); Chile (Ant, Tar)
<b>penai</b> Wygodzinsky & Coscarón, 1970 .....	Chile (Antofagasta, Tar)
<b>tenuipes</b> Knab, 1914 .....	Chile (Tarapacá, Ant); Peru (Tacna)

### Subgenus EUSIMULIUM Roubaud

**EUSIMULIUM** Roubaud, 1906 (as subgenus of *Simulium*). Type species: *aureum* (monotypy)

<b>angustipes</b> Edwards, 1915* .....	Britain (England, CI, Wa); Algeria, Armenia, Austria, Belarus, Bosnia and Herzegovina, China (Hebei), Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Kazakhstan, Latvia, Lebanon, Luxembourg, Macedonia, Moldova, Mongolia, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (CR, NR, SR), Serbia,
<i>horvathi</i> (Enderlein, 1922) [Germany]	
<i>securiforme</i> (Rubtsov, 1956) [Russia (St Petersburg)]	
<i>latizonum</i> (Rubtsov, 1956) [Russia (St Petersburg)]	
<i>paludicola</i> (Rivosecchi, 1963 [March]) (unav., form post-1960)	
<i>paludicola</i> (Rivosecchi, 1963 [Sept.]) (available, ssp.) [Italy]	
‘E’ Dunbar, 1959 ( <i>aureum</i> cytoform)	

‘aff. <i>aureum</i> sp. 1’ Rubtsov, 1959 [ <i>in Dunbar</i> ] ( <i>Simulium</i> , part)	Slovakia, Spain, Sweden, Switzerland, Tunisia, Turkey,
‘aff. <i>aureum</i> sp. 2’ Rubtsov, 1959 [ <i>in Dunbar</i> ] ( <i>Simulium</i> , part)	Ukraine
‘aff. <i>aureum</i> sp. 3’ Rubtsov, 1959 [ <i>in Dunbar</i> ] ( <i>Simulium</i> , part)	
‘aff. <i>aureum</i> sp. 4’ Rubtsov, 1959 [ <i>in Dunbar</i> ] ( <i>Simulium</i> , part)	
‘aff. <i>aureum</i> ’ Jedlička & Halgoš, 1985 ( <i>Simulium</i> sp.)	
<i>latisonum</i> , <i>latizaonum</i> <i>latizomum</i> : incorrect subsequent spellings	
<b>arenicola</b> Liu, Gong, Zhang, Luo & An, 2003 .....	China (Qinghai)
<i>shaliuense</i> : lapsus for <i>arenicola</i> [ <i>in Zhang, Liu, Shi, Yang &amp; Gong, 2008, attrib. Liu, An &amp; Luo</i> ]	
<b>argentipile</b> (Rubtsov, 1962) .....	Russia (St Petersburg CR); Sweden (?)
<i>argentipiles</i> : incorrect subsequent spelling	
<b>armeniacum</b> (Rubtsov, 1955) .....	Armenia; Azerbaijan, China (IM), Georgia
<i>armeiacum</i> : incorrect subsequent spelling	
<b>aureum</b> Fries, 1824 .....	Sweden; Austria, Belarus, Belgium, Britain (En, Sc, Wa),
<i>flavipes</i> Stephens, 1829 (unav., <i>nomen nudum</i> )	China (He, Sh), Czech Republic, Denmark, Estonia,
‘F’ Dunbar, 1959 (cytoform)	Finland, France, Germany, Iceland, Ireland, Italy,
‘aff. <i>aureum</i> sp. 1’ Rubtsov, 1959 [ <i>in Dunbar</i> ] ( <i>Simulium</i> , part)	Latvia, Lithuania, Moldova, Netherlands, Norway,
‘aff. <i>aureum</i> sp. 2’ Rubtsov, 1959 [ <i>in Dunbar</i> ] ( <i>Simulium</i> , part)	Poland, Portugal, Russia (CR, NR, SR), Siberia
‘aff. <i>aureum</i> sp. 4’ Rubtsov, 1959 [ <i>in Dunbar</i> ] ( <i>Simulium</i> , part)	(WS), Slovakia, Spain, Sweden, Switzerland, Ukraine,
‘High hill’ Obeng, 1965 (morphoform)	Uzbekistan, Armenia (?), Bulgaria (?), Greece (?),
<i>aurem</i> , <i>aurerum</i> , <i>aurora</i> , <i>aweia</i> : incorrect subsequent spellings	India (?), Japan (?), Kazakhstan (?), Pakistan (?),
	Romania (?), Russia (Caucasus) (?). [Not New World
	(misidentified)]
<b>azerbaidzhanicum</b> (Djafarov, 1953) .....	Azerbaijan; Armenia
<i>aserbajdzanicum</i> , <i>azerbajdjanicum</i> : incorrect subsequent spellings	
<b>azorensis</b> (Carlsson, 1963) .....	Azores (Flores, Faial, Santa Maria, São Jorge,
[ <i>beckeri</i> : Séguy, 1936, not Roubaud]	São Miguel, Terceira)
[‘ <i>aureum</i> J’ (cytoform, part): Leonhardt, 1985]	
<b>baatori</b> (Rubtsov, 1967) .....	Mongolia
<i>battore</i> : incorrect subsequent spelling	
<b>beiwanense</b> Guo, Zhang, An, Zhang, Zheng, Dong & Zhao, 2008 .....	China (Xinjiang)
<b>brachyantherum</b> Rubtsov, 1947 .....	Tajikistan; Armenia, Iran, Romania, Uzbekistan
<i>brachyanterum</i> , <i>brachyanthemum</i> , <i>brachyanthenum</i> ,	
<i>brachyantharum</i> , <i>brahyantherum</i> , <i>branchyantherum</i> :	
incorrect subsequent spellings	
<b>bracteatum</b> Coquillett, 1898 .....	USA (Massachusetts, Alaska, Geo, Maine, Mic, Min,
‘A’ Dunbar, 1958 ( <i>aureum</i> cytoform)	NC, NH, NJ, NY, Ohio, Pen, SC, WV); Canada (Alb,
	BC, NB, NWT, Ont, PEI, Que, Sask)
<b>donovani</b> Vargas, 1943 .....	Mexico (Chiapas, Du, Gj, Mi, Mo, Vz); Guatemala,
<i>diasi</i> De León, 1945 [1944] [Guatemala]	USA (Ari, Cal, Col, Nev, NM, Ore)
‘E’ De León, 1943 ( <i>Simulium</i> sp.)	
‘G’ Dunbar, 1959 ( <i>aureum</i> cytoform)	
‘A’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
‘B’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
‘G1’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
‘G1’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
‘ <i>nr. donovani</i> ’ Hernández-Triana, Chaverri, Rodríguez-Pérez, Prosser,	
Hebert, Gregory & Johnson, 2015 ( <i>Simulium</i> sp.)	
<i>arrum</i> : incorrect subsequent spelling	
[ <i>aureum</i> (part): authors (California and Latin America), not Fries]	
<b>erimoense</b> (Ono, 1980) .....	Japan (Hokkaido)
<b>exulatum</b> Adler, Currie & Wood, 2004 .....	Canada (Manitoba, BC, Lab, Nfld, NWT, Que); USA
‘C’ Dunbar, 1959 ( <i>aureum</i> cytoform)	(Alaska, Col)
<b>flexibranchium</b> Crosskey, 2001 [ <i>in Crosskey &amp; Malicky</i> ] .....	Greece (Rhodes, Crete, Kithira, Naxos)
<b>guimari</b> Becker, 1908 .....	Canary Islands (Tenerife, Gomera, Gran Canaria,
<i>submorsitans</i> Séguy, 1921 [Canary Islands (Gran Canaria)]	La Palma)
‘M’ Leonhardt, 1985 ( <i>aureum</i> cytoform)	
[ <i>tenerificum</i> (part): Crosskey, 1988]	

<b>jomsomense</b> Takaoka & Shrestha, 2010 .....	Nepal
<i>jomnomense</i> : incorrect subsequent spelling	
<b>kazabi</b> (Rubtsov, 1969) .....	Mongolia
<b>kazahstanicum</b> (Rubtsov, 1976) .....	Kazakhstan
<b>krymense</b> (Rubtsov, 1956) .....	Ukraine (Crimea); Bulgaria, Greece, Romania.
<i>krimense</i> : incorrect subsequent spelling	[? = <i>nigrofuscipes</i> ]
<b>kuandianense</b> (Chen & Cao, 1983) .....	China (Liaoning)
<i>kandianense</i> : incorrect subsequent spelling	
<b>lerbiferum</b> Chen, Yang & Xu, 2016 [ <i>in</i> Chen] .....	China (Inner Mongolia)
<b>liupanshanense</b> Chen, Wang & Fan, 2016 [ <i>in</i> Chen] .....	China (Ningxia Hui)
<i>liupanshanens</i> : incorrect original spelling	
<b>longitarse</b> (Rubtsov & Violovich, 1965) .....	Siberia (Tuva WS)
<b>maritimum</b> (Rubtsov, 1956)## .....	Russia (Krasnodar SR); Armenia, Austria, Azerbaijan,
‘N’ Leonhardt, 1987 ( <i>aureum</i> cytoform)	Bulgaria, Georgia, Italy, Ukraine (Crimea), China (Li)
‘N (Yalta)’ Vlasov, Adler, Aibulatov & Gorlov, 2016	(?)
( <i>aureum</i> cytoform, typical)	
<i>maritimum</i> : incorrect subsequent spelling	
[ <i>krymense</i> : Chubareva & Petrova, 2008, not Rubtsov]	
<b>mellah</b> Giudicelli & Bouzidi, 2000 [ <i>in</i> Giudicelli,	
Bouzidi & Abdelaali] .....	Morocco; Algeria, Spain
<b>nigrofuscipes</b> Rubtsov, 1947 .....	Tajikistan; Armenia
<i>nigrifuscipes</i> , <i>nigrofuscipes</i> : incorrect subsequent spellings	
<b>nigrostriatum</b> Chen, Yang & Wang, 2016 [ <i>in</i> Chen] .....	China (Ningxia Hui)
<b>paucicuspis</b> Rubtsov, 1947 .....	Tajikistan; Armenia, Iran, Iraq, Turkmenistan,
<i>paucicuspe</i> : incorrect subsequent spelling	Uzbekistan
[ <i>latizonum</i> : Crosskey, 1967 (Iran), not Rubtsov]	
<b>petricolum</b> (Rivosecchi, 1963 [September]) (available, ssp.)## .....	Italy (incl. Elba, Sardinia, Sicily); Algeria, Armenia,
<i>petricola</i> (Rivosecchi, 1963 [March]) (unav., form post-1960)	Austria, Bosnia and Herzegovina, Britain (En), Cyprus,
‘J’ Leonhardt, 1985 ( <i>aureum</i> cytoform)	Czech Republic, France (incl. Corsica), Germany,
[ <i>azorensis</i> : Carlsson, 1963 (part, Madeira)]	Greece (incl. Lésbos, Páros, Rhodes), Ireland, Libya,
[ <i>latizonum</i> : Sherban, 1961/? Knoz, 1965, not Rubtsov]	Madeira, Morocco, Poland, Portugal, Serbia, Spain,
	Turkey, Russia. [? = <i>krymense</i> ]
<b>pilosum</b> (Knowlton & Rowe, 1934) .....	USA (Utah, Ari, Cal, Col, Idaho, Iowa, Kan, Mic, Mon,
<i>utahense</i> (Knowlton & Rowe, 1934) [USA (Utah)]	Neb, Nev, NY, Ohio, Ore, Pen, Ten, Was, Wis, WV,
‘B’ Dunbar, 1958 ( <i>aureum</i> cytoform)	Wyo); Canada (Alb, BC incl. Queen Charlotte Islands,
[ <i>aureum</i> (part): authors (central USA), not Fries]	NWT, Ont, Que incl. Magdalen Islands)
<b>reginae</b> Terteryan, 1949 .....	Armenia; Azerbaijan, China (Xi), Georgia, Turkey (?)
<i>reginea</i> : incorrect subsequent spelling	
<b>rubzovianum</b> (Sherban, 1961)## .....	Serbia; Algeria, Andorra, Austria, Balearic Islands
<i>serbicum</i> Baranov, 1925 (preocc.) [Serbia]	(Majorca, Minorca), Bosnia and Herzegovina,
<i>primum</i> (Baranov, 1926) (preocc.) [Macedonia]	Britain (En, Sc, Wa), Croatia, Cyprus, Czech Republic,
<i>secundum</i> (Baranov, 1926) (preocc.) [Macedonia]	Finland, France (incl. Corsica), Germany, Greece (incl.
<i>latinum</i> (Rubtsov, 1962) [Italy]	Corfu, Crete, Lésbos, Páros, Rhodes), Hungary, Iran,
‘indet.’ Davies, 1966, 1968 ( <i>Simulium</i> sp.)	Ireland, Israel, Italy (incl. Sardinia, Sicily), Jordan,
‘I’ Dunbar, 1966 [ <i>in</i> Davies] / Leonhardt, 1985 ( <i>aureum</i> cytoform)	Libya, Macedonia, Malta, Moldova, Montenegro,
‘1’ Adler, Cherairia, Arigue, Samraoui & Belqat, 2015	Morocco, Netherlands, Norway, Portugal, Romania,
( <i>velutinum</i> cytoform, typical)	Serbia, Slovakia, Slovenia, Spain, Sweden, Tunisia,
‘4’ Adler, Cherairia, Arigue, Samraoui & Belqat, 2015	Turkey, Ukraine (Crimea)
( <i>velutinum</i> cytoform) .....	Morocco
[ <i>trabeatum</i> : Rubtsov, 1956, not Enderlein]	
[ <i>velutinum</i> (part): authors (Europe), not Santos Abreu]	
<b>salinum</b> (Rubtsov, 1956) .....	Siberia (Irkutskaya ES)
<b>satsumense</b> Takaoka, 1976 .....	Japan (Nansei Islands); China (Li), Korea (South)
<i>stsumense</i> : incorrect subsequent spelling	
<b>silvaticum</b> (Rubtsov, 1962) .....	Russia (St Petersburg CR, SR); Italy, Romania, Serbia,
‘aff. <i>aureum</i> ’ Sherban, 1961 ( <i>Simulium</i> sp.)	Sweden (?)
<b>taipei</b> (Shiraki, 1935) .....	Taiwan. [‘Japan’ error]
<i>taishanense</i> Xue & An, 2001 (junior primary homonym of	

<i>taishanense</i> Sun & Li, 2000, but no available subst. name) .....	China (Shandong)
<i>tenuistylum</i> Yang, Fan & Chen, 2008 (junior primary homonym of <i>tenuistylum</i> Datta, 1973, but no available subst. name) .....	China (Liaoning)
<i>tenuistylum</i> : incorrect subsequent spelling	
<b>velutinum</b> (Santos Abreu, 1922)§ .....	Canary Islands (La Palma, Gomera, Tenerife); Algeria, Morocco
<i>nigripes</i> (Santos Abreu, 1922) [Canary Islands (La Palma)]	
<i>pseudolatipes</i> (Santos Abreu, 1922) [Canary Islands (La Palma)]	
<i>tenerificum</i> Crosskey, 1988 [Canary Islands (Tenerife)]	
‘L’ Leonhardt, 1985 ( <i>aureum</i> cytoform)	
‘2’ Adler, Cherairia, Arigue, Samraoui & Belqat, 2015 (cytoform, typical)	
<i>velutianum</i> : incorrect subsequent spelling	
[ <i>guimari</i> (part): Crosskey, 1988, not Becker]	
<b>violator</b> Adler, Currie & Wood, 2004 .....	Canada (Northwest Territories, Alb, Lab, Man, Nfld, Ont, Que); USA (NH)
‘D’ Dunbar, 1959 ( <i>aureum</i> cytoform)	
[ <i>aureum</i> : Currie, 1986, not Fries]	
<b>weiningense</b> Chen & Zhang, 1997 .....	China (Guizhou)
‘A’ Datta, 1973 ( <i>Simulium</i> sp.) .....	India (West Bengal)
‘K’ Leonhardt, 1985 ( <i>aureum</i> cytospecies) .....	Spain
‘D’ Zhang, Wen & Chen, 1999 ( <i>Simulium</i> sp.) .....	China (Guizhou)
‘3’ Adler, Cherairia, Arigue, Samraoui & Belqat, 2015 ( <i>velutinum</i> cytospecies) .....	Algeria
‘5’ Adler, Cherairia, Arigue, Samraoui & Belqat, 2015 ( <i>velutinum</i> cytospecies) .....	Morocco

#### Subgenus FREEMANELLUM Crosskey

**FREEMANELLUM** Crosskey, 1969 (as subgenus of *Simulium*). Type species: *berghei* (original designation)

*FREEMANIELLUM*: incorrect subsequent spelling

<b>berghei</b> Fain, 1949 .....	Democratic Republic of Congo; Cameroon, Nigeria, Uganda. [? = <i>spinulicorne</i> ]
‘Cameroon’ Lewis & Disney, 1972 (morphoform)	
<b>debegene</b> De Meillon, 1934 .....	South Africa (Limpopo, EC, FS, G, KZN, M, NW); Zimbabwe
<b>empopomae</b> De Meillon, 1937 .....	South Africa (KwaZulu Natal)
<i>empopomae</i> : incorrect subsequent spelling	
<b>hessei</b> Gibbins, 1941 .....	South Africa (Western Cape, EC)
<b>hirsutilateris</b> De Meillon, 1937 .....	South Africa (KwaZulu Natal, L); Tanzania
<i>hirsutilateralis</i> : incorrect subsequent spelling	
<b>manense</b> Elsen & Escaffre, 1976* .....	Ivory Coast; Ghana, Guinea, Liberia, Malawi, Sierra Leone, Tanzania, Togo, Uganda
[ <i>debegene</i> : authors, not De Meillon]	
<b>spinulicorne</b> Fain & Elsen, 1980 .....	Democratic Republic of Congo; Cameroon
[ <i>berghei</i> : Fain & Elsen, 1973, not Fain]	

#### Subgenus GOMPHOSTILBIA Enderlein

**GOMPHOSTILBIA** Enderlein, 1921 (as genus)\*, ††. Type species: *ceylonicum* (original designation)

*NIPPONOSIMULIUM* Shogaki, 1956 (as subgenus of *Simulium*) (unav., post-1930 name based on species with only a vernacular name: J-4 of Bentinck, 1955)

#### AMBIGENS species-group

<b>ambigens</b> Delfinado, 1969 .....	Philippines (Mindanao)
---------------------------------------	------------------------

ASAKOAE species-group

<b>asakoae</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Burma, China (HK), Thailand, Vietnam
‘C’ Takaoka & Suzuki, 1984 ( <i>Simulium</i> sp.) .....	
<b>banluangense</b> Takaoka, Srisuka & Fukuda, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>brinchangense</b> Takaoka, Sofian-Azirun & Hashim, 2014 [ <i>in</i> Takaoka, Sofian-Azirun, Ya’cob & Hashim] .....	Malaysia (Malaya). [‘Vietnam’ error]
<b>chaowaense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>chaudinhense</b> Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Takaoka, Sofian- Azirun, Ya’cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>chiangdaoense</b> Takaoka & Srisuka, 2009 .....	Thailand
<b>confertum</b> Takaoka & Sofian-Azirun, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya’cob, Chen, Lau & Pham] .....	Vietnam
<b>fuscidorsum</b> Takaoka & Ya’cob, 2015 [ <i>in</i> Takaoka, Sofian- Azirun, Ya’cob, Chen, Lau & Pham] .....	Vietnam
<b>gyorkosae</b> Takaoka & Davies, 1996 .....	Indonesia (Java, Bali, Lombok, Sulawesi, Sumatra)
<i>gyorkosae</i> Takaoka & Davies, 1995 (unav., <i>nomen nudum</i> ) [ <i>metatarsale</i> : Edwards, 1934, not Brunetti]	
<b>hmongense</b> Takaoka & Ya’cob, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya’cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>hoiseni</b> Takaoka, 2008 .....	Malaysia (Malaya)
<b>hongthaii</b> Takaoka, Sofian-Azirun & Ya’cob, 2014 [ <i>in</i> Takaoka, Sofian-Azirun, Ya’cob, Chen, Lau & Pham] .....	Vietnam
<b>huaimoreense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>inthanonense</b> Takaoka & Suzuki, 1984 .....	Thailand; China (Yu), Vietnam
‘1’ Takaoka, Srisuka, Fukuda & Saeung, 2020 (morphoform)	
‘2’ Takaoka, Srisuka, Fukuda & Saeung, 2020 (morphoform)	
<i>intbanonense</i> : incorrect subsequent spelling	
<b>izuae</b> Takaoka, Sofian-Azirun & Hashim, 2013 .....	Malaysia (Malaya)
<b>jianfengense</b> Long, An & Hao, 1994 .....	China (Hainan)
<i>jianfenegense</i> , <i>jiantengtse</i> : incorrect subsequent spellings	
<b>junkumae</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>kangi</b> Sun, Yu & An, 2011 .....	China (Shandong)
<b>kaohsiungense</b> Takaoka, Huang & Fukuda, 2021 [ <i>in</i> Takaoka, Low, Huang, Fukuda & Ya’cob] .....	Taiwan
<b>kiewfinense</b> Takaoka, Srisuka & Fukuda, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>kiewlomense</b> Takaoka, Srisuka & Saeung, 2021 [ <i>in</i> Srisuka, Aupalee, Low, Ya’cob, Fukuda, Saeung & Takaoka] .....	Thailand
<b>klonglanense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>lamjungense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha, Dangi & Adler] .....	Nepal
<b>laoshanstum</b> Ren, An & Kang, 1998 .....	China (Shandong)
<i>laoshanense</i> : incorrect subsequent spelling	
<b>loeienne</b> Takaoka, Srisuka & Fukuda, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>lurauense</b> Takaoka, Sofian-Azirun & Hashim, 2011 [ <i>in</i> Takaoka, Sofian-Azirun, Hashim & Ya’cob] .....	Malaysia (Malaya); Burma
<b>maehongsonense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>maelanoiense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>maewongense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka,	



	Srisuka, Fukuda & Saeung] .....	Thailand
<b>mengi</b>	Chen, Zhang & Wen, 2000 .....	China (Guizhou)
<b>mialingense</b>	Wen & Chen, 2000 .....	China (Guizhou)
<b>mokroense</b>	Takaoka, Srisuka and Saeung, 2022 [ <i>in</i> Srisuka, Aupalee, Fukuda, Saeung & Takaoka] .....	Thailand
<b>monglaense</b>	Takaoka, Srisuka & Saeung, 2017 [ <i>in</i> Takaoka, Srisuka, Low, Maleewong & Saeung].....	Burma; Thailand
<b>muangpanense</b>	Takaoka, Srisuka & Fukuda, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>myanmarensense</b>	Takaoka, Srisuka & Saeung, 2017 [ <i>in</i> Takaoka, Srisuka, Low, Maleewong & Saeung] .....	Burma; Thailand
<b>namdanense</b>	Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>nanoiense</b>	Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>nanthaburiense</b>	Takaoka, Srisuka & Fukuda, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>nepalense</b>	Lewis, 1964 .....	Nepal
<b>nareshi</b>	Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha, Dangi & Adler] .....	Nepal
<b>okinawense</b>	Takaoka, 1976 .....	Japan (Nansei Islands)
	<i>okinawaense</i> : incorrect subsequent spelling	
<b>phapeungense</b>	Takaoka, Srisuka & Fukuda, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>phulocense</b>	Takaoka & Chen, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>pitawatae</b>	Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>puaense</b>	Takaoka, Srisuka & Saeung, 2000 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>quychauense</b>	Takaoka & Chen, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>rampae</b>	Takaoka, Srisuka & Saeung, 2019 [ <i>in</i> Srisuka, Takaoka, Fukuda, Otsuka & Saeung] .....	Thailand
<b>roslihashimi</b>	Takaoka & Sofian-Azirun, 2011 [ <i>in</i> Takaoka, Sofian-Azirun, Hashim & Ya'cob] .....	Malaysia (Malaya)
<b>sanchayense</b>	Takaoka & Lau, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
	[ <i>brinchangense</i> (part, Vietnam): Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham, 2014, not Takaoka, Sofian-Azirun & Hashim]	
<b>shoufengense</b>	Takaoka, Low & Ya'cob, 2021 [ <i>in</i> Takaoka, Low, Huang, Fukuda & Ya'cob] .....	Taiwan
<b>sofiani</b>	Takaoka & Hashim, 2011 [ <i>in</i> Takaoka, Sofian-Azirun & Hashim] .....	Malaysia (Malaya)
<b>songense</b>	Takaoka, Srisuka & Fukuda, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>sunapii</b>	Takaoka, Sofian-Azirun & Wayan, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Chen, Lau, Halim, Low, Ya'cob, Abdullah & Wayan Suana] .....	Indonesia (Flores)
<b>sutheppuiense</b>	Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>taitungense</b>	Huang & Takaoka, 2011 [ <i>in</i> Huang, Takaoka, Otsuka & Aoki] .....	Taiwan
	<i>taifungenus</i> : incorrect subsequent spelling	
<b>tamdaoense</b>	Takaoka, Sofian-Azirun & Ya'cob, 2014 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>tanahrataense</b>	Takaoka, Sofian-Azirun & Ya'cob, 2014 [ <i>in</i>	

Takaoka, Sofian-Azirun, Ya'cob & Hashim] .....	Malaysia (Malaya)
<b>teerachanense</b> Takaoka, Srisuka & Fukuda, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>thituyenae</b> Takaoka & Pham, 2105 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>thungchangense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Takaoka, Srisuka, Fukuda & Saeung] .....	Thailand
<b>tokarensen</b> Takaoka, 1973 .....	Japan (Tokara Islands)
<b>tuenense</b> Takaoka, 1979 .....	Taiwan
<b>udomi</b> Takaoka & Choochote, 2006 .....	Thailand
<b>unii</b> Takaoka & Pham, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>vinhphucense</b> Takaoka & Low, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>yunnanense</b> Chen & Zhang, 2004 .....	China (Yunnan)
<b>zayuense</b> An, Zhang & Deng, 1990 .....	China (Tibet)
<i>zayüensis</i> : incorrect original spelling (alternative)	
'2' Jitklang, Kuvangkadilok, Baimai, Takaoka & Adler, .....	Thailand
2008 ( <i>Simulium</i> sp. nr. <i>asakoae</i> )	
'3' Jitklang, Kuvangkadilok, Baimai, Takaoka & Adler, .....	Thailand
2008 ( <i>Simulium</i> sp. nr. <i>asakoae</i> )	
'4' Jitklang, Kuvangkadilok, Baimai, Takaoka & Adler, .....	Thailand
2008 ( <i>Simulium</i> sp. nr. <i>asakoae</i> )	

#### BAISASAE species-group

<b>baisasae</b> Delfinado, 1962 [1960] .....	Philippines (Luzon, Mindoro)
<i>baisasae</i> , <i>baisase</i> : incorrect subsequent spellings	
<b>bicolense</b> Takaoka, 1983 .....	Philippines (Luzon, Samar)
<b>visayaense</b> Takaoka, 1983 .....	Philippines (Bohol, Cebu, Leyte, Mindanao, Panay)

#### BANAUENSE species-group§

<b>alienigenum</b> Takaoka, 1983 .....	Philippines (Palawan)
<b>atuganense</b> Takaoka, 2009 .....	Philippines (Mindanao)
<b>banauense</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>bansonae</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>cagayanense</b> Takaoka, 2005 .....	Philippines (Luzon)
<b>disneyi</b> Takaoka & Roberts, 1988 .....	Indonesia (Sulawesi)
<b>ifugaoense</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>kalimantanense</b> Takaoka & Sofian-Azirun, 2016 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Low & Harmonis] .....	Indonesia (Kalimantan); Malaysia (Sabah)
<b>katangladense</b> Takaoka, 2009 .....	Philippines (Mindanao)
<b>lilianae</b> Takaoka, 2000 .....	Philippines (Luzon)
<b>lilwense</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>manbucalense</b> Takaoka, 1983 .....	Philippines (Negros)
<b>quezonense</b> Takaoka, 2009 .....	Philippines (Luzon)
<b>riverai</b> Takaoka, 1983 .....	Philippines (Negros)
<b>salazarae</b> Takaoka, 1983 .....	Philippines (Mindanao, Bohol, Luzon, Samar)

#### BATOENSE species-group

<b>abadii</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>agasthyamalaiense</b> Vijayan, Anbalagan, Rekha, Dinakaran & Krishnan, 2019 .....	India (Tamil Nadu)
<b>azhari</b> Takaoka, Sofian-Azirun & Ya'cob, 2014 .....	Malaysia (Malaya)
<b>babuyanense</b> Takaoka & Tenedero, 2007 .....	Philippines (Palawan)
<b>baglungense</b> Takaoka & Shrestha, 2010 .....	Nepal

<b>bakalalanense</b> Ya'cob, Takaoka & Sofian-Azirun, 2015 .....	Malaysia (Sarawak)
<b>bannaense</b> Chen & Zhang, 2003 .....	China (Yunnan)
<i>banaense</i> : incorrect subsequent spelling .....	
<b>batoense</b> Edwards, 1934 .....	Indonesia (Java, Sumatra)
<i>satoense</i> : incorrect subsequent spelling	
<b>bhutanense</b> Takaoka & Somboon, 2008 .....	Bhutan; Nepal
<b>binuanense</b> Takaoka & Tenedero, 2008 .....	Philippines (Palawan)
<b>brevitruncatum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>brivetruncum</b> Chen & Chen, 2000 .....	China (Hainan)
<i>briverruncum</i> , <i>brivetruncum</i> : incorrect subsequent spellings	
<b>butwalense</b> Takaoka & Shrestha, 2010 .....	Nepal
<b>cauveryense</b> Anbalagan, 2015 [ <i>in</i> Anbalagan, Balachandran, Prasanna, Kannan, Dinakaran & Krishnan] .....	India (Karnataka)
<b>chiangraiense</b> Takaoka, Srisuka & Saeung, 2018 [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....	Thailand
<b>chongqingense</b> Zhu & Wang, 1995 .....	China (Sichuan)
<i>chengqingense</i> , <i>chongqingense</i> , incorrect subsequent spellings	
<b>chuzargangense</b> Takaoka & Somboon, 2008 .....	Bhutan
<b>dachaisense</b> Takaoka & Lau, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>dadeldhuraense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha, Dangi & Adler] .....	Nepal
<b>davaoense</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>decuplum</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Burma, India (ArP), Thailand (?)
<i>decuslum</i> : incorrect subsequent spelling	
<b>dentistylum</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Burma, Thailand
<b>dinakarani</b> Anbalagan, Vijayan, Balachandran, Thiyonila & Surya, 2020 .....	India (Tamil Nadu)
<b>dola</b> Davies & Györkös, 1987 .....	Sri Lanka
'II' Davies, 1984 ( <i>Simulium</i> sp.)	
'III' Starmühlner, 1984 ( <i>Simulium</i> sp.)	
<b>duolongum</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Indonesia (Sumatra), Vietnam, Thailand (?)
<b>fidum</b> Datta, 1975 .....	India (Assam)
<b>friederichsi</b> Edwards, 1934 .....	Indonesia (Java, Sumatra)
<b>fukudae</b> Takaoka, Srisuka & Saeung, 2017 .....	Thailand
<b>hadiae</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>hainanense</b> Long, An & Hao, 1994 .....	China (Hainan)
<i>hailanense</i> : incorrect subsequent spelling	
<b>huaikaeoense</b> Takaoka, Srisuka & Low, 2018 [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....	Thailand
<b>jerantutense</b> Takaoka, Sofian-Azirun & Ya'cob, 2014 .....	Malaysia (Malaya)
<b>jinbianense</b> Zhang & Chen, 2004 .....	China (Hunan)
<i>jinbinense</i> : incorrect subsequent spelling	
<b>jiulianshanense</b> Kang, Zhang, & Chen, 2007 .....	China (Jiangxi)
<b>johoreense</b> Takaoka, Sofian-Azirun & Ya'cob, 2014 .....	Malaysia (Malaya)
<b>khaokhoense</b> Takaoka, Srisuka & Low, 2018 [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....	Thailand
<b>kolakaense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>kottooreense</b> Anbalagan, 2015 [ <i>in</i> Anbalagan, Arunprasanna, Kannan, Dinakaran & Krishnan] .....	India (Kerala)
<b>krishnani</b> Anbalagan, Vijayan, Balachandran, Thiyonila & Surya, 2020 .....	India (Karnataka)
<b>krombeini</b> Davies & Györkös, 1987 .....	Sri Lanka
'I' Davies, 1984 ( <i>Simulium</i> sp.)	
<b>kumbakkaraense</b> Anbalagan, Vijayan, Dinakaran & Krishnan, 2019 ...	India (Tamil Nadu)
<b>laosense</b> Takaoka, Srisuka & Saeung, 2017 [ <i>in</i> Takaoka, Srisuka, Saeung, Maleewong & Low] .....	Laos
<b>lamdongense</b> Takaoka & Sofian-Azirun, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam

<b>lemborensense</b> Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Chen, Lau, Halim, Low, Ya'cob, Abdullah & Suana] .....	Indonesia (Flores, Sumba)
<b>longlanhense</b> Takaoka & Ya'cob, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>longshengense</b> Chen, Zhang & Zhang, 2007 .....	China (Guangxi Zhuang)
<b>maeklangense</b> Takaoka, Srisuka & Saeung, 2018 [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....	Thailand
<b>manadoense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
'B' Takaoka & Roberts, 1988 ( <i>Simulium</i> sp.)	
<b>mangasepi</b> Takaoka, 1983 .....	Philippines (Palawan)
<i>mangasepi</i> : incorrect subsequent spelling	
<b>marosense</b> Takaoka, Sofian-Azirun & Suana, 2019 [ <i>in</i> Takaoka, Sofian-Azirun, Chen, Halim, Lau, Low & Suana] .....	Indonesia (Sulawesi)
<b>miyagii</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>ngaoense</b> Takaoka, Srisuka & Saeung, 2018 [ <i>in</i> Takaoka, Low, Srisuka, Ya'cob & Saeung] .....	Thailand; Vietnam
'2' Takaoka, Low, Srisuka, Ya'cob & Saeung, 2018 (morphoform)	
[ <i>dentistylum</i> : Kuvangkadilok and Takaoka, 2000, not Takaoka & Davies]	
[ <i>parahiyangum</i> (part): Takaoka, Low, Srisuka, Ya'cob & Saeung, 2018, not Takaoka & Sigit]	
<b>omutaense</b> Ogata & Sasa, 1954 .....	Japan (Kyushu, Hon)
<b>pamiangense</b> Takaoka, Srisuka & Saeung, 2018 [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....	Thailand
<b>panagudiense</b> Anbalagan, 2015 [ <i>in</i> Anbalagan, Arunprasanna, Kannan, Dinakaran & Krishnan] .....	India (Tamil Nadu)
<b>parahiyangum</b> Takaoka & Sigit, 1992 .....	Indonesia (Java, Sumatra); India (Assam), Malaysia (Sabah, Sarawak), Vietnam
'nr. <i>varicorne</i> ' Datta, 1975 ( <i>Simulium</i> sp.)	
'1' Takaoka, Low, Srisuka, Ya'cob & Saeung, 2018 (morphoform)	
[ <i>varicorne</i> (part): Edwards, 1934]	
[ <i>dentistylum</i> (part): Takaoka, 2001, not Takaoka & Davies]	
<b>pattoni</b> Senior-White, 1922 .....	India (Tamil Nadu); China (Hainan), Sri Lanka
'I' Starmühlner, 1984 ( <i>Simulium</i> sp.)	
[ <i>atratum</i> : authors, not De Meijere]	
<b>paukatense</b> Takaoka, 2008 .....	Malaysia (Sarawak)
<b>pegalanense</b> Smart & Clifford, 1969 .....	Malaysia (Sabah, Malaya)
'A' Takaoka & Davies, 1995 ( <i>Simulium</i> sp.)	
<b>peteri</b> Anbalagan, 2014 [ <i>in</i> Anbalagan, Prasanna, Dinakaran & Krishnan] .....	India (Kerala)
<b>purandharaense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>samarensense</b> Takaoka & Tenedero, 2008 .....	Philippines (Samar)
<b>sazalyi</b> Takaoka, Ya'cob & Low, 2018 [ <i>in</i> Takaoka, Low, Srisuka, Ya'cob & Saeung] .....	Malaysia (Malaya)
'3' Takaoka, Low, Srisuka, Ya'cob & Saeung, 2018 (morphoform)	
[ <i>parahiyangum</i> : Takaoka & Davies 1995, not Takaoka & Sigit]	
<b>sextuplum</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya)
<b>siamense</b> Takaoka & Suzuki, 1984 (complex) .....	Thailand; Burma, Nepal, Vietnam
'A' Kuvangkadilok, Lualon & Baimai, 2008 (cytoform) .....	Thailand
'B' Kuvangkadilok, Lualon & Baimai, 2008 (cytoform) .....	Thailand
'C' Kuvangkadilok, Lualon & Baimai, 2008 (cytoform) .....	Thailand
'D' Kuvangkadilok, Lualon & Baimai, 2008 (cytoform) .....	Thailand
'E' Kuvangkadilok, Lualon & Baimai, 2008 (cytoform) .....	Thailand
'F' Lualon, 2006 (thesis) (cytoform) .....	Thailand
'F' Pramual & Wongpakam, 2011 (cytoform) .....	Thailand
'G' Pramual & Wongpakam, 2011 (cytoform) .....	Thailand
<i>siamense</i> : incorrect subsequent spelling	
<b>singgihi</b> Takaoka, 2003 .....	Indonesia (Sulawesi)

<b>sulawesiense</b> Takaoka & Roberts, 1988 .....	Indonesia (Sulawesi)
<b>syafruddini</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>syuhaiense</b> Huang & Takaoka, 2008 .....	Taiwan
<i>shuhaiense, synhaiense</i> : incorrect subsequent spellings	
<b>tahanense</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya, Sabah, Sarawak); Indonesia (Kalimantan), Thailand (?)
<b>takaokai</b> Anbalagan, 2014 [ <i>in</i> Anbalagan, Prasanna, Dinakaran & Krishnan] .....	India (Ke)
<b>tekamense</b> Takaoka, Sofian-Azirun & Ya'cob, 2014 .....	Malaysia (Malaya)
<b>terengganuense</b> Takaoka, Sofian-Azirun & Ya'cob, 2012 [ <i>in</i> Takaoka, Sofian-Azirun, Hashim, Ya'cob & Chen] .....	Malaysia (Malaya, Sarawak)
<b>torautense</b> Takaoka & Roberts, 1988 .....	Indonesia (Sulawesi)
<b>tumidum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>yaeyamaense</b> Takaoka, 1991 .....	Japan (Nansei Islands)
[ <i>batoense</i> : Ogata, 1956, not Edwards]	
<b>yvonneae</b> Takaoka & Low, 2018 [2019] [ <i>in</i> Takaoka, Low, Tan, Ya'cob, Sofian-Azirun, Chen, Lau & Pham] .....	Vietnam
<b>yuanbaoshanense</b> Chen, Zhang & Zhang, 2007 .....	China (Guangxi Zhuang)
'A' Phasuk, Chanpaisaeng, Adler & Courtney, 2005 ( <i>Simulium</i> sp.) .....	Thailand
'B' Phasuk, Chanpaisaeng, Adler & Courtney, 2005 ( <i>Simulium</i> sp.) .....	Thailand
'J-12' Bentinck, 1955 ( <i>Simulium</i> sp.) .....	Japan (Honshu), Korea (South)

#### CEYLONICUM species-group

<b>ambonense</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>apoense</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>atratoides</b> Takaoka & Davies, 1996 .....	Indonesia (Java)
<i>atratoides</i> Takaoka & Davies, 1995 (unav., <i>nomen nudum</i> )	
[ <i>atratum</i> : Edwards, 1934, not De Meijere]	
<b>bataksense</b> Takaoka & Tenedero, 2007 .....	Philippines (Palawan)
<i>batakense</i> : incorrect subsequent spelling	
<b>brevilabrum</b> Takaoka, Hadi & Sigit, 2006 .....	Indonesia (Flores)
<b>capillatum</b> Takaoka, 2009 .....	Malaysia (Sabah, Sarawak)
[ <i>dentistylum</i> (part): Takaoka, 2001, not Takaoka & Davies]	
<b>ceylonicum</b> (Enderlein, 1921 [April]) (available) .....	Sri Lanka
<i>ceulonica, seylonicum</i> : incorrect subsequent spellings	
<b>curtatum</b> Jitklang, Kuvangkadilok, Baimai, Takaoka & Adler, 2008 .....	Thailand
<b>curvastylum</b> Chen & Zhang, 2001 .....	China (Hainan)
<i>curvasrylum</i> : incorrect subsequent spelling	
<b>ela</b> Davies & Györkös, 1987 .....	Sri Lanka
'III' Davies, 1984 ( <i>Simulium</i> sp.)	
<b>epauletum</b> Guo, Zhang & An, 2011 .....	China (Hainan)
<b>fanjingshanense</b> Chen, Zhang & Wen, 2000 .....	China (Guizhou)
<b>gimpuense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>hunanense</b> Zhang & Chen, 2004 .....	China (Hunan)
<b>kamimurai</b> Takaoka, 2003 .....	Indonesia (Maluku, Sulawesi)
<b>leparensense</b> Takaoka, Sofian-Azirun & Ya'cob, 2014 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Hashim & Otsuka] .....	Malaysia (Malaya)
<b>longitruncum</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya)
<i>longitruncum</i> Zhang & Chen, 2003 (junior primary homonym of <i>longitruncum</i> Takaoka & Davies, 1995, but no available subst. name) .....	China (Hainan)
<b>mindoroense</b> Takaoka & Tenedero, 2007 .....	Philippines (Mindoro)
<b>mogii</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>namense</b> Takaoka, 1989 .....	Burma
<b>napuense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>nigrofemoralum</b> [ <i>sic</i> ] Chen & Zhang, 2001 .....	China (Hainan)
<b>ogatai</b> (Rubtsov, 1962) .....	Japan (Honshu, Ky, Sh)

‘Tategata-buyu’ Kani, 1944	
‘J-13’ Bentinck, 1955 ( <i>Simulium</i> sp.)	
<b>pangsideense</b> Takaoka, Srisuka & Saeung, 2021 [ <i>in</i> Takaoka, Srisuka, Ya’cob, Low & Saeung] .....	Thailand
<b>rangatense</b> Takaoka, Sofian-Azirun & Wayan, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Chen, Lau, Halim, Low, Ya’cob, Abdullah & Wayan Suana].....	Indonesia (Flores)
<b>rosemaryae</b> Takaoka & Roberts, 1988 .....	Indonesia (Sulawesi)
<b>rutengense</b> Takaoka, Hadi & Sigit, 2006 .....	Indonesia (Flores)
<b>sheilae</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya, Sabah, Sarawak); Indonesia (Sumatra), Thailand
‘g’ Kuvangkadilok, Boonkemtong, Phayuhassana & Baimai, 2003 ( <i>Simulium</i> sp.)	
[ <i>metatarsale</i> : Crosskey, 1973, not Brunetti]	
<b>tenuistylum</b> Datta, 1973 .....	India (West Bengal, Sikkim)
<b>trangense</b> Jitklang, Kuvangkadilok, Baimai, Takaoka & Adler, 2008 .....	Thailand; Malaysia (Malaya)
‘nr. <i>sheilae</i> ’ Phasuk, Chanpaisaeng, Adler & Courtney, 2005 / Thanwisai, Kuvangkadilok & Baimai, 2006 ( <i>Simulium</i> sp.)	
[ <i>sheilae</i> : Phasuk, Chanpaisaeng, Adler & Courtney, 2005, not Takaoka & Davies]	
<b>wijiti</b> Takaoka, Srisuka & Saeung, 2023 [ <i>in</i> Srisuka, Takaoka, Aupalee & Saeung] .....	Thailand
<b>wuyishanense</b> Chen & Zhang, 2009 [ <i>in</i> Zhang, Gao, Cai, Huang & Chen] .....	China (Fujian)
‘C’ Phasuk, Chanpaisaeng, Adler & Courtney, 2005 ( <i>Simulium</i> sp.) .....	Thailand
‘3’ Jitklang, Kuvangkadilok, Baimai, Takaoka & Adler, .....	Thailand
2008 ( <i>Simulium</i> sp. nr. <i>sheilae</i> )	

#### DARJEELINGENSE species-group

<b>chayamaritae</b> Takaoka & Srisuka, 2010 .....	Thailand
<b>darjeelingense</b> Datta, 1973 .....	India (West Bengal, ArP, Assam); Nepal
<i>unum</i> Datta, 1975 [India (Assam)]	
<i>darieelingense</i> , <i>darieelingens</i> : incorrect subsequent spellings	
<b>eshimai</b> Takaoka & Adler, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya’cob, Chen, Lau, Low, Pham & Adler] ....	Vietnam
<b>guizhouense</b> Chen, Zhang & Yang, 2003 .....	China (Guizhou, Hubei)
<b>guniki</b> Takaoka, 2001 .....	Malaysia (Sabah)
<b>hiroyukii</b> Ya’cob & Sofian-Azirun, 2015 [ <i>in</i> Ya’cob, Takaoka & Sofian-Azirun] .....	Malaysia (Sarawak)
<b>shivapuriense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha, Dangi & Adler] .....	Nepal
[ <i>darjeelingense</i> : Takaoka & Shrestha, 2009, not Datta]	
<b>shresthae</b> Takaoka & Dangi, 2020 [ <i>in</i> Takaoka, Shrestha, Dangi & Adler] .....	Nepal
<b>xizangense</b> An, Zhang & Deng, 1990 .....	China (Tibet)

#### EPISTUM species-group

<b>adleri</b> Jitklang & Kuvangkadilok, 2008 [2007] .....	Thailand; Malaysia (Malaya)
<b>angulistylum</b> Takaoka & Davies, 1995 (complex) .....	Malaysia (Malaya); Thailand
‘A’ Pramual & Kuvangkadilok, 2012 (cytoform) .....	Thailand
‘B’ Pramual & Kuvangkadilok, 2012 (cytoform) .....	Thailand
‘C’ Pramual & Kuvangkadilok, 2012 (cytoform) .....	Thailand
<b>atratum</b> De Meijere, 1913 .....	Indonesia (Java, Bali, Flores, Lombok, Sumatra, Sumba, Sumbawa, Timor). [‘India (WB)’ error]
<i>sundaicum</i> Edwards, 1934	
<b>auratum</b> Takaoka, 2009 .....	Malaysia (Sarawak)
<b>barioense</b> Takaoka, 2008 .....	Malaysia (Sarawak)
<b>bucolicum</b> Datta, 1975 .....	India (Assam); Nepal

<b>cheongi</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Indonesia (Kalimantan, Sumatra), Thailand
<b>datfaense</b> Takaoka & Otsuka, 2009 [ <i>in</i> Takaoka, Otsuka, Choochote & Thongsahuan] .....	Thailand
<b>epistum</b> Delfinado, 1971 .....	Philippines (Balabac, Palawan)
<b>flavocinctum</b> Edwards, 1934 .....	Indonesia (Sumatra)
<i>flavocinct</i> : incorrect subsequent spelling	
<b>floresense</b> Takaoka, Hadi & Sigit, 2006 .....	Indonesia (Flores)
<b>fulgidum</b> Takaoka, 2009 .....	Malaysia (Sarawak)
<b>isanense</b> Takaoka, Srisuka & Saeung, 2017 [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....	Thailand
<b>kelabitense</b> Takaoka, 2008 .....	Malaysia (Sarawak)
<b>lagunaense</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>lehi</b> Takaoka, 2001 .....	Malaysia (Sarawak, Sabah); Indonesia (Kalimantan)
<b>luzonicum</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>merapiense</b> Takaoka & Sofian-Azirun, 2016 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Low & Zaid] .....	Indonesia (Java, Lombok)
<b>miblosi</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>mindanaoense</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>montiblense</b> Takaoka, 1983 .....	Philippines (Palawan); China (Fu), Vietnam
'A' Delfinado, 1971 ( <i>Simulium</i> sp.)	
<b>otsukai</b> Takaoka & Choochote, 2009 [ <i>in</i> Takaoka, Otsuka, Choochote & Thongsahuan] .....	Thailand
<b>padangense</b> Takaoka & Sigit, 1997 .....	Indonesia (Sumatra)
<b>paserense</b> Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Low & Harmonis] .....	Indonesia (Kalimantan)
<b>prayooki</b> Pramual, Jomkumsing, Thongyan, Wongpakam & Takaoka 2022 .....	Thailand
<b>rarum</b> Takaoka & Tenedero, 2008 .....	Philippines (Palawan)
<b>rayohense</b> Smart & Clifford, 1969 .....	Malaysia (Sabah)
<b>repentinum</b> Takaoka & Tenedero, 2008 .....	Philippines (Samar)
<b>sarawakense</b> Takaoka, 2001 .....	Malaysia (Sarawak, Sabah); Indonesia (Kalimantan)
<b>simianshanense</b> Wang, Li & Sun, 1996 .....	China (Sichuan)
<i>simiaushanense</i> : incorrect subsequent spelling	
<b>tumum</b> Chen & Zhang, 2001 .....	China (Hainan)
<b>whartoni</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Indonesia (Kalimantan, Sumatra)
[ <i>zonatum</i> : Crosskey, 1973, 1988, not Edwards]	
<b>zonatum</b> Edwards, 1934 .....	Indonesia (Sumatra). ['Malaya' error]

#### GOMBAKENSE species-group

<b>antlerum</b> Chen, 2001 .....	China (Hainan)
<i>antlerum</i> : incorrect original spelling	
<b>aziruni</b> Takaoka, Hashim & Chen, 2012 [ <i>in</i> Takaoka, Sofian-Azirun, Hashim, Ya'cob & Chen] .....	Malaysia (Malaya)
<b>dudgeoni</b> Takaoka & Davies, 1995 [ <i>in</i> Takaoka, Davies & Dudgeon] ....	China (Hong Kong)
<b>gombakense</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Burma, Thailand. ['Nepal' error]
<b>langkawiense</b> Takaoka, Sofian-Azirun & Ya'cob, 2013 .....	Malaysia (Malaya)
<b>maleewongae</b> Takaoka, Srisuka & Saeung, 2016 [2017] .....	Thailand
<b>nuwakotense</b> Takaoka & Shrestha, 2010 .....	Nepal
<b>paiense</b> Takaoka, Srisuka & Saeung, 2018 (complex) [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....	Thailand
'A' Takaoka, Srisuka, Low & Saeung, 2018 (molecular form, typical)	
'B' Takaoka, Srisuka, Low & Saeung, 2018 (molecular form)	
'C' Takaoka, Srisuka, Low & Saeung, 2018 (molecular form)	
<b>prayongi</b> Takaoka & Choochote, 2005.....	Thailand
<b>sachini</b> Takaoka & Henry, 2010 [ <i>in</i> Takaoka, Thapa & Henry] .....	India (West Bengal); Nepal
[ <i>gombakense</i> : Shrestha & Takaoka, 2009, not Takaoka & Davies]	

<b>thuathienense</b> Takaoka & Sofian-Azirun, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam; Thailand
<b>williei</b> Takaoka & Thapa, 2010 [ <i>in</i> Takaoka, Thapa & Henry] .....	India (West Bengal)
<i>willei</i> : incorrect subsequent spelling	

#### HELDSBACHENSE species-group

<b>bifurcatum</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>heldsbachense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland); Indonesia (Irian Jaya)
<b>inermum</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>kalimerahense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)

#### HEMICYCLIUM species-group

<b>asperum</b> Takaoka, 2003.....	Indonesia (Maluku)
<b>hemicyclium</b> Smart & Clifford, 1965 .....	New Guinea (New Britain, PNG mainland); Indonesia (Maluku)
<b>kuingingiense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland); Indonesia (Irian Jaya)

#### HIROSHII species-group

<b>hiroshii</b> Takaoka, 1994 .....	Solomon Islands (Guadalcanal, New Georgia Islands); New Guinea (Bougainville)
-------------------------------------	--

#### PALAUENSE species-group

<b>curvum</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>palauense</b> Stone, 1964 .....	Palau Islands

#### SHERWOODI species-group

<b>kerei</b> Takaoka & Suzuki, 1994 .....	Solomon Islands (New Georgia Island)
<b>noroenae</b> Takaoka & Suzuki, 1995 .....	Solomon Islands (New Georgia Island); New Guinea (Bougainville)
<b>pangunaense</b> Takaoka, 1995 .....	New Guinea (Bougainville)
‘1’ Yule, 1995 / 1996 ( <i>Simulium (Morops)</i> sp.)	
<b>peggyae</b> Takaoka, 1995 .....	New Guinea (Bougainville)
<b>sherwoodi</b> Stone & Maffi, 1971 .....	Solomon Islands (Guadalcanal)
<i>sherwaodi</i> : incorrect subsequent spelling	
<b>yuleae</b> Takaoka, 1995 .....	New Guinea (Bougainville)
‘2’ Yule, 1995 / 1996 ( <i>Simulium (Morops)</i> sp.)	

#### VARICORNE species-group

<b>breviflagellum</b> Takaoka & Sofian-Azirun, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>burtoni</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Thailand (?)
<b>charlesi</b> Takaoka, 2008 .....	Malaysia (Sarawak, Malaya)
<b>chumpornense</b> Takaoka & Kuvangkadilok, 2000 [ <i>in</i> Kuvangkadilok & Takaoka] .....	Thailand
<b>huangi</b> Takaoka, 2017 [ <i>in</i> Takaoka & Huang] .....	Taiwan
<b>khelangense</b> Takaoka, Srisuka & Saeung, 2022 [ <i>in</i> Srisuka, Aupalee, Otsuka, Fukuda, Takaoka & Saeung] ....	Thailand
<b>kuvangkadilokae</b> Pramual & Tangkawanit, 2008 .....	Thailand
<b>novemarticulatum</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Thailand
<b>piroonae</b> Takaoka & Srisuka, 2014 [ <i>in</i> Takaoka, Srisuka, Saeung & Choochote] .....	Thailand
<b>shogakii</b> (Rubtsov, 1962) .....	Japan (Honshu & Kyushu & Shikoku, Hok);



‘J-4’ Bentinck, 1955 ( <i>Simulium</i> sp.)	China (Jilin, Li, Si), Korea (South)
<i>chogakii, schogakii</i> : incorrect subsequent spellings	
<b>sumbaense</b> Takaoka & Suana, 2018 [ <i>in</i> Takaoka, Sofian-Azirun, Chen, Lau, Halim, Low & Suana] .....	Indonesia (Sumba)
<b>synanceium</b> (Chen & Cao, 1983) .....	China (Liaoning)
<i>symanceium, synaceium, synanreium</i> : incorrect subsequent spellings	
<b>tomae</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>trirugosum</b> Davies & Györkös, 1988 .....	Sri Lanka
<b>varicorne</b> Edwards, 1929 .....	Indonesia (Sumatra, Java); Malaysia (Malaya), Nepal
<i>varicone</i> : incorrect subsequent spelling	

*Gomphostilbia* species unplaced to group

<b>altayense</b> Cai, An & Li, 2005 .....	China (Xinjiang)
<i>angulaplattum</i> Zhang, Wen & Chen, 1999 (attrib. Wen & Chen) (unav., <i>nomen nudum</i> ) .....	China (Guizhou)
<b>barretti</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>catleyi</b> Smart & Clifford, 1965 .....	New Guinea (New Britain, PNG mainland)
<b>centrale</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland, New Ireland)
<b>dhangi</b> Takaoka & Sofian-Azirun, 2018 [ <i>in</i> Takaoka, Sofian-Azirun, Chen, Lau, Halim, Low & Suana] .....	Indonesia (Timor, Sumba)
<b>doisaketense</b> Jitklang, Kuvangkadilok, Baimai, Takaoka & Adler, 2008.	Thailand
<b>guangxiense</b> Sun, 2009 .....	China (Guangxi Zhuang)
<b>heteropara</b> Sun, 2009 .....	China (Hunan)
<i>heteropala</i> : incorrect subsequent spelling	
<b>huguangense</b> Sun, 2009 .....	China (Hunan)
<b>keravatense</b> Smart & Clifford, 1965 .....	New Guinea (New Britain, PNG mainland)
<b>litoreum</b> Datta, 1975 .....	India (Assam)
<b>makartschenkovi</b> (Bodrova, 1987) .....	Siberia (Sakhalin FE)
<i>makartshenkovi</i> : incorrect subsequent spelling	
<b>mamasaense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>meadowi</b> Mahe, Ma & An, 2003 .....	China (Xinjiang)
<i>meadow</i> : incorrect subsequent spelling	
<b>metatarsale</b> Brunetti, 1911 .....	India (West Bengal, Sik); China (Fu, Gu, Hainan, Ji, Yu), Taiwan. [‘West Malaysia’, ‘Indonesia (Java)’ errors]
<i>metasarsale, metatarsal, metatasale, meteatarsale</i> : incorrect subsequent spellings	
<b>munumense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland, New Britain)
<b>nami</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>penis</b> Sun, 2009 .....	China (Guangxi Zhuang)
<b>peregrinum</b> Mackerras & Mackerras, 1950 .....	Australia (Queensland)
<b>pingxiangense</b> An, Hao & Mai, 1990 .....	China (Guangxi Zhuang)
<i>pingxiangenses</i> : incorrect subsequent spelling	
<b>rhopaloides</b> Craig, Englund & Takaoka, 2006 .....	Solomon Islands (Guadalcanal)
<b>serratum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>sumatraense</b> An, Nie & Chen, 2006 [ <i>in</i> Nie, Chen, Li, An & Li] .....	Indonesia (Sumatra)
(junior primary homonym of <i>sumatraense</i> Takaoka & Sigit, 1997, but no available subst. name)	
<b>tashikulganense</b> Mahe, Ma & An, 2003 .....	China (Xinjiang)
<b>xiangxiense</b> Sun, 2009 .....	China (Guangxi Zhuang)
‘E’ Smart & Clifford, 1965 ( <i>Simulium</i> sp.) .....	New Guinea (PNG mainland)
‘F’ Smart & Clifford, 1965 ( <i>Simulium</i> sp.) .....	New Guinea (New Britain)
‘G’ Smart & Clifford, 1965 ( <i>Simulium</i> sp.) .....	New Guinea (PNG mainland)
‘H’ Smart & Clifford, 1965 ( <i>Simulium</i> sp.) .....	New Guinea (PNG mainland)
‘J’ Smart & Clifford, 1965 ( <i>Simulium</i> sp.) .....	New Guinea (PNG mainland)
‘Lakhimpur’ Lewis, 1974 ( <i>Simulium</i> sp.) .....	India (Assam)
‘Ranga’ Lewis, 1974 ( <i>Simulium</i> sp.) .....	India (Assam)
‘1’ Saito, Uemoto & Afzal, 1989 ( <i>Simulium</i> sp.) .....	Pakistan
‘A’ Zhang, Wen & Chen, 1999 ( <i>Simulium</i> sp.) .....	China (Guizhou)

### Subgenus HEARLEA Vargas, Martínez Palacios & Díaz Nájera

**HEARLEA** Vargas, Martínez Palacios & Díaz Nájera, 1946 (as subgenus of *Simulium*). Type species: *canadense* (original designation)  
*HEARLEA* Rubtsov, 1940 (unav., *nomen nudum*)

#### CAROLINAE species-group\*

<b>carolinae</b> De León, 1945 .....	Guatemala; Mexico (Ch, Ox, Vz)
<b>gorirossiae</b> Vargas & Díaz Nájera, 1957 .....	Mexico (Chiapas, Ox, Vz); Guatemala
<i>gorirossii</i> : incorrect original spelling (justifiably emended -ae)	
<b>johnsoni</b> Vargas & Díaz Nájera, 1957 .....	Mexico (Veracruz, Mi, Ox)
<b>larvispinosum</b> De León, 1948 .....	Guatemala; Mexico (Ch)
<b>menchacai</b> Vargas & Díaz Nájera, 1957 .....	Mexico (Oaxaca)
<b>paracarolinae</b> Coscarón, 2004 [ <i>in</i> Coscarón, Miranda-Esquivel, Moulton, Coscarón-Arias & Ibáñez-Bernal] .....	Guatemala
<i>paracarolinae</i> Coscarón, Miranda-Esquivel, Moulton, Coscarón-Arias & Ibáñez-Bernal, 2002 (unpublished under <i>Code Article 9.9</i> )	
<b>temascalense</b> Díaz Nájera & Vulcano, 1962 .....	Mexico (Michoacan, Ox)

#### JUAREZI species-group\*

<b>ayrozai</b> Vargas, 1945 .....	Mexico (Federal District, MS, Pu); Guatemala
<i>ayrosai</i> : incorrect subsequent spelling	
<b>burchi</b> Dalmat, 1951 .....	Guatemala
<b>canadense</b> Hearle, 1932 .....	Canada (British Columbia); Mexico (Du, FD, Ms, Ox, Pu, Vz), USA (Ari, Cal, Col, Flo, Idaho, Nev, NM, Ore, SD, Utah, Was, Wyo)
<i>fraternum</i> Twinn, 1938 [USA (Utah)]	
<i>canidense</i> : incorrect subsequent spelling	
<i>virgatum</i> : Hearle, 1929, not Coquillett]	
<b>capricorne</b> De León, 1945 .....	Guatemala; Mexico (Ch, Du, FD, Mo, MS, Ox, Pu, Vz)
<i>deleoni</i> Vargas, 1945 [Mexico (Federal District)]	
<b>contrerense</b> Díaz Nájera & Vulcano, 1962 .....	Mexico (Federal District, Mo, Ox)
<b>dalmati</b> Vargas & Díaz Nájera, 1948 .....	Mexico (Veracruz, Mo)
<b>delatorrei</b> Dalmat, 1950 .....	Guatemala; Mexico (Ch)
<b>estevezi</b> Vargas, 1945 .....	Mexico (Oaxaca, Ch, FD, Gu, Mo, Vz)
<i>canadense</i> : Vargas, 1943, not Hearle]	
<b>ethelae</b> Dalmat, 1950 .....	Guatemala; Costa Rica, Mexico (Ch), Panama
<i>chiriquiense</i> Field, 1967 [Panama]	
<b>falculatum</b> (Enderlein, 1929)* .....	Mexico (Veracruz)
<i>coffae</i> Vargas, 1945 (unnecessary subst. name, for <i>falculatum</i> )	
<b>juarezi</b> Vargas & Díaz Nájera, 1957 .....	Mexico (Oaxaca, Ch, Mi, MS, Vz)
<b>microbranchium</b> Dalmat, 1949 .....	Guatemala
<b>nigricorne</b> Dalmat, 1950 .....	Guatemala

### Subgenus HEBRIDOSIMULIUM Grenier & Rageau

**HEBRIDOSIMULIUM** Grenier & Rageau, 1961 (as genus)\*. Type species: *jolyi* (original designation)

#### CALLIPYGIUM species-group

<b>banksi</b> Craig, 2006 [ <i>in</i> Craig, Currie, Hunter & Spironello] .....	Vanuatu (Vanua Lava)
<b>callipygium</b> Craig, 2006 [ <i>in</i> Craig, Currie, Hunter & Spironello] .....	Vanuatu (Espíritu Santo, Vanua Lava)
<b>johnfrumi</b> Craig, 2006 [ <i>in</i> Craig, Currie, Hunter & Spironello] .....	Vanuatu (Tanna, Erromango)
<b>pankumuense</b> Craig, 2006 [ <i>in</i> Craig, Currie, Hunter & Spironello] ...	Vanuatu (Malekula)

**tuberculum** Craig, 2006 [*in* Craig, Currie, Hunter & Spironello] ..... Vanuatu (Éfaté)  
 [*jolyi* (part): Grenier & Rageau, 1961 / Crosskey, 1967,  
 not Roubaud]

STEATOPYGIUM species-group

**adsonense** Craig, 2006 [*in* Craig, Currie, Hunter & Spironello] ..... Vanuatu (Espíritu Santo)  
**anatolicum** Craig, 1987 ..... Society Islands (Tahiti)  
 ? ‘forbidden’ Craig, 1983 (*Simulium* cytoform)  
**jolyi** Roubaud, 1906 ..... Vanuatu (Malekula)  
*jolii*: incorrect subsequent spelling  
**laciniatum** Edwards, 1924 ..... Fiji (Viti Levu, Kadavu, Ovalau, Taveuni, Vanua Levu)  
*laciniotum*: incorrect subsequent spelling  
 [*jolyi* (part): Edwards, 1932 / Grenier & Rageau, 1961 /  
 Crosskey, 1967, not Roubaud]  
**lucyae** Craig, 2006 [*in* Craig, Currie, Hunter & Spironello] ..... Vanuatu (Aneityum)  
**paradisium** Craig, 2006 [*in* Craig, Currie, Hunter & Spironello] ..... Vanuatu (Espíritu Santo)  
**spiroi** Craig, Currie & Hunter, 2006 [*in* Craig, Currie, Hunter  
 Hunter & Spironello] ..... Vanuatu (Malekula)  
**steatopygium** Craig, 2006 [*in* Craig, Currie, Hunter & Spironello] ..... Vanuatu (Éfaté, Espíritu Santo)  
**subparadisium** Craig, 2006 [*in* Craig, Currie, Hunter & Spironello] .. Vanuatu (Espíritu Santo)  
**supercilium** Craig, 2006 [*in* Craig, Currie, Hunter & Spironello] ..... Vanuatu (Pentecôte)  
**undulatum** Craig, 2006 [*in* Craig, Currie, Hunter & Spironello] ..... Vanuatu (Vanua Lava)

**Subgenus HELLICHIELLA Rivosecchi & Cardinali**

**HELLICHIELLA** Rivosecchi & Cardinali, 1975 (as genus). Type species: *saccii* (original designation)  
*PARHELLICHIELLA* Golini, 1982 (thesis) (unav., *nomen nudum*)

CONGAREENARUM species-group

**acutum** (Patrusheva, 1971) ..... Siberia (Yamal WS)  
**anatinum** Wood, 1963 [1962] ..... Canada (Ontario, Alb, Man, Nfld, Nun, NWT, Que,  
 Sask); USA (Alaska, Mic, Wis)  
 ‘H’ Bennett, 1960 (*Simulium*)  
 ‘T’ Anderson & DeFoliart, 1961 (*Cnephia* sp.)  
 [see Adler, Currie & Wood, 2004 for misidentifications]  
**barabense** (Rubtsov, 1973) ..... Siberia (Novosibirskaya WS)  
**chaurense** (Yankovsky, 2000)†† ..... Siberia (Taymyrsky ES)  
**chiharuae** Takaoka, Otsuka & Fukuda, 2007 ..... Japan (Honshu)  
 ‘2’ Onishi, Uemoto & Orii, 1971 (*Eusimulium* sp.)  
**congareenarum** (Dyar & Shannon, 1927) ..... USA (South Carolina, Del, Flo, Geo, Lou, Mar, Misp,  
 NC, NJ, NY, Vir); Canada (NWT, Ont)  
 ‘b’ Dunbar, 1967 (cytoform)  
*congareenarum*: incorrect subsequent spelling  
**dogieli** (Rubtsov, 1956, attrib. Usova) ..... Russia (Karelia KM, NR); Belarus, Canada (NWT),  
 Finland, Lithuania, Norway, Siberia (WS), Sweden  
*rendalense* (Golini, 1975) [Norway]  
 ‘1’ Golini, 1970 (thesis) (*Eusimulium* sp., part)  
*dogelli*: incorrect subsequent spelling  
*randalense*: incorrect subsequent spelling  
**innocens** (Shewell, 1952) ..... Canada (Ontario, BC, NWT); USA (Mic, Utah)  
*innocens*: incorrect subsequent spelling  
**latipes** (Meigen, 1804) [ICZN List] ..... Germany [holotype validated ICZN Opinion 1416];  
*subexcisum* Edwards, 1915 [Britain (England)] ..... Austria, Belgium, Britain (En, Sc), Denmark, Estonia,  
*yerburyi* Edwards, 1920 [Britain (England)] ..... Finland, France, Hungary, Ireland, Latvia, Netherlands,  
*marinae* (Usova, 1987) (unav., *nomen nudum*) ..... Russia (CR, KM), Siberia (WS), Spain, Sweden,  
*marinae* (Chubareva, Petrova & Kachvoryan, 1996) ..... Switzerland, Ukraine, Tunisia (?). [‘Libya’ error]  
 (unav., *nomen nudum*)  
*marinae* (Chubareva & Petrova, 2003) (unav., *nomen nudum*)

<i>marinae</i> (Usova & Reva, 2008) (unav., <i>nomen nudum</i> )	
<i>lapipes</i> : incorrect subsequent spelling	
<i>subexcisum</i> : incorrect subsequent spelling	
<i>yerbeyi</i> : incorrect subsequent spelling	
<b>meigeni</b> (Rubtsov & Carlsson, 1965)† .....	Russia (Murmansk KM); China (Li), Mongolia, Norway, Siberia (?). [‘Britain’ error]
<i>fallisi</i> (Golini, 1975) [Norway]	
[ <i>pygmaeum</i> : Rubtsov, 1956 (part), not Zetterstedt]	
<b>minus</b> (Dyar & Shannon, 1927) .....	USA (California)
<b>nebulosum</b> Currie & Adler, 1986 .....	Canada (British Columbia: Queen Charlotte Islands and mainland); USA (Alaska, Cal, Idaho, Ore, Was)
[ <i>anatinum</i> : Mahrt, 1982, not Wood]	
[ <i>gouldingi</i> : Mahrt, 1982, not Stone]	
<b>notoense</b> Takaoka & Saito, 2011 .....	Japan (Honshu)
[ <b>oligocenicum</b> Rubtsov, 1936] .....	[Russia (Kaliningrad): Eocene (Baltic amber)]
[ <b>polessicum</b> (Perkovsky & Sukhomlin, 2016)] .....	[Ukraine: Late Eocene (Rovno amber)]
[ <i>pugach</i> (part): Perkovsky & Sukhomlin, 2015]	
<b>rivi</b> (Ivashchenko, 1970) .....	Russia (Ivanovo CR)
<b>saccai</b> (Rivosecchi, 1967) .....	Italy
<b>sedecimfistulata</b> Rubtsov, 1963 .....	Poland; Germany
<b>tsheburovae</b> (Rubtsov, 1956)*, † .....	Russia (Murmansk KM); Norway, Sweden
<b>turneri</b> Gibbins, 1938 .....	‘South Africa (Western Cape)’ [? error]
<b>usovae</b> (Golini, 1987) .....	Norway; Canada (Nun), Finland, Sweden
‘1’ Golini, 1970 (thesis) ( <i>Eusimulium</i> sp., part)	
‘near <i>dogieli</i> ’ Golini, 1975 ( <i>Eusimulium</i> )	
‘Opinaca’ Golini, 1982 (thesis) / Rothfels & Golini, .....	Canada (Quebec)
1983 ( <i>Hellichella</i> cytoform)	
‘Opinaga’: Golini, 1982 (thesis) (lapsus)	
<i>opinaca</i> (Chubareva & Petrova, 2003) (unav., <i>nomen nudum</i> , attrib. Rothfels & Golini)	

#### RIVULI species-group

<b>curriei</b> Adler & Wood, 1991 .....	USA (California, Ari, Col, Ore, Utah); Canada (BC)
<b>excisum</b> Davies, Peterson & Wood, 1962 [1961] .....	Canada (Ontario, BC, NB, Nun, NWT, Man, Que); USA (Alaska, Mic, Min, NY)
‘near <i>subexcisum</i> ’ Shewell, 1957	
? ‘#1’ Anderson & Dicke, 1960 ( <i>Cnephia</i> sp.)	
[ <i>gouldingi</i> (part): authors (Alaska), not Stone]	
[ <i>subexcisum</i> : Canadian authors, not Edwards]	
<b>mysterium</b> Adler, Currie & Wood, 2004 .....	USA (California)
<b>rivuli</b> Twinn, 1936 .....	Canada (Ontario, Que); USA (Con, Maine, Mas, Pen)
‘near <i>innocens</i> ’ Adler, Travis, Kim & Masteller, 1982	

#### Subgenus HEMICNETHA Enderlein

<b>HEMICNETHA</b> Enderlein, 1934 (as genus). Type species: <i>paynei</i> , as <i>mexicana</i> Enderlein (original designation)	
<i>DYARELLA</i> Vargas, Martínez Palacios & Díaz Nájera, 1946 (as subgenus of <i>Simulium</i> ). Type species: <i>tarsatum</i> , as <i>mexicanum</i> Bellardi (original designation)	
<i>HELOCNETHA</i> : incorrect subsequent spelling	
<b>brachycladum</b> Lutz & Pinto, 1932 [1931] [ <i>in</i> Pinto] .....	Brazil (Pernambuco, Bahía, Ceará, ES, Goiás, MG, Par, Pba, RGN, RJ, SP)
<i>brevibranchium</i> Lutz & Machado, 1915 (unav., <i>nomen nudum</i> )	
<i>brachycladium</i> : incorrect subsequent spelling	
<i>brevibranhium</i> : incorrect subsequent spelling	
<b>bricenoi</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Mexico State, Du, FD, Gj, Hi, Mo, Vz); USA (Ari, NM)
<i>wirthi</i> Peterson & Craig, 1997 [1996] [USA (New Mexico)]	
? ‘C & D’ Muhammad, 1988 (thesis) ( <i>virgatum</i> cytoforms)	
<i>briseñoi</i> : incorrect subsequent spelling	
<b>crystalinum</b> Coscarón & Py-Daniel, 1989 [or ? issued 1991] .....	Brazil (Roraima)

<b>earlei</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Morelos, Co, FD, Gu, Mi, MS, NL, Ox, Vz); Belize, Costa Rica, Guatemala, Panama
<i>dehnei</i> Field, 1969 [Panama]	
<i>keenani</i> Field, 1969****, † [Panama]	
<i>deheni</i> : incorrect subsequent spelling	
<i>earli</i> : incorrect subsequent spelling	
<b>freemani</b> Vargas & Díaz Nájera, 1949 .....	Mexico (Oaxaca, Gj, Gu, Mi); Costa Rica, USA (Ari, NM, Utah)
<b>guerrereuse</b> Vargas & Díaz Nájera, 1956 .....	Mexico (Guerrero)
<i>guerrereuse</i> : incorrect subsequent spelling	
[ <i>pulverulentum</i> : Vargas, 1943 / Vargas <i>et al.</i> , 1946, not Knab]	
<b>hieroglyphicum</b> Peterson, Vargas & Ramírez-Pérez, 1988* .....	Costa Rica; Panama
<b>hinmani</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Mexico State, Ch, Co, FD, Ja, Ox, Vz)
<b>hippovorom</b> Malloch, 1914 .....	Mexico (Chihuahua); Canada (BC), USA (Cal, Idaho, Ore)
[ <i>virgatum</i> : authors, not Coquillett]	
<b>lobatoi</b> Luna Dias, Hernández, Maia-Herzog & Shelley, 2004 .....	Brazil (Goiás, ES, Bahía, MGr)
<b>mutucuna</b> Nunes de Mello & Vieira da Silva, 1974 .....	Brazil (Roraima)
<b>paynei</b> Vargas, 1942 (subst. name) (complex).....	Mexico ([no type loc.], Ch, Co, Du, FD, Gu, Ja, Mi, Mo, MS, NL, Ox, Pu, Si, SLP, Vz); Colombia, Costa Rica, Ecuador, Guatemala, Nicaragua, Panama, Peru (Junin, Lima), USA (Ari, NM, Okl, Texas), Venezuela
<i>mexicanum</i> (Enderlein, 1934) (preocc.) [Mexico (? state)]	
<i>mathesoni</i> Vargas, 1943 [Mexico (Morelos)]	
<i>bilimekae</i> Smart, 1944 (unnecessary subst. name, for <i>mexicanum</i> Enderlein)	
<i>acatenangoense</i> Dalmat, 1951 [Guatemala]	
<i>conviti</i> Ramírez-Pérez & Vulcano, 1973 [Venezuela]	
<i>biuxinisa</i> Coscarón & Ibáñez-Bernal, 1995 [1993] [Mexico (Oaxaca)]	
? ‘A’ Muhammad, 1988 (thesis) ( <i>virgatum</i> cytoform) .....	Guatemala
‘B’ Muhammad, 1988 (thesis) ( <i>virgatum</i> cytoform) .....	USA (Okl, Texas)
‘nr. <i>paynei</i> ’ Hernández-Triana, Prosser, Rodríguez-Pérez, Chaverri, Hebert, Gregory, 2014 ( <i>Simulium</i> sp.) .....	Ecuador
<i>paynes</i> , <i>paynoi</i> , <i>peynei</i> : incorrect subsequent spellings	
[ <i>virgatum</i> : authors (Oklahoma) / Vargas <i>et al.</i> , 1946 / Dalmat, 1955 / Shelley <i>et al.</i> , 2002, not Coquillett]	
<b>pulverulentum</b> Knab, 1915 [1914] .....	Belize; Colombia, Costa Rica, El Salvador, Guatemala, Honduras, Mexico (Ch, Gu, Hi, Mi, Mo, Ox, SLP, Vz), Nicaragua, Panama, Venezuela. [‘Guyana’ error]
<i>pulvrulentum</i> : incorrect subsequent spelling	
<b>rubrithorax</b> Lutz, 1909 .....	Brazil (Minas Gerais [neotype], Bahía, Ceará, ES, Goiás, MGr, Par, RGS, RJ, SC, SP); Argentina (Mis), Bolivia, Colombia, Venezuela. [‘Guyana’ error]
<i>magnum</i> Lane & Porto, 1940 [ <i>in</i> Porto] [Brazil (Mato Grosso)]	
<i>major</i> : incorrect subsequent spelling (of <i>magnum</i> )	
<i>rubithorax</i> , <i>rubritorax</i> : incorrect subsequent spellings	
<b>smartii</b> Vargas, 1946 .....	Mexico (Chiapas, Ox); Guatemala
<b>solarii</b> Stone, 1948 .....	USA (Texas, NM); Mexico (MS, NL, SLP, Ta)
[ <i>virgatum</i> : authors, not Coquillett]	
[ <i>Prosimulium</i> sp.: Sites & Nichols, 1990, not Roubaud]	
<b>tarsale</b> Williston, 1896 .....	Saint Vincent; Dominica, Guadeloupe
<i>clavipes</i> Malloch, 1914 [Guadeloupe]	
<b>tarsatum</b> Macquart, 1846 [1844] (complex) .....	Colombia; Argentina (Jujuy), Belize, Bolivia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Mexico (Ch, MS, Ox, Ver), Panama, Peru (Cuzco, Lima), Trinidad (incl. Tobago), Venezuela
<i>mexicanum</i> Bellardi, 1862 [1864/5] [Mexico (Veracruz)]	
<i>seriatum</i> Knab, 1914 [Peru (Lima)]	
<i>aureopunctatum</i> Malloch, 1914 [Guatemala]	
<i>placidum</i> Knab, 1915 [Trinidad]	
<i>lugubre</i> Lutz & Nuñez Továr, 1928 [ <i>in</i> Lutz] [Venezuela]	
<i>turgidum</i> (Hoffmann, 1930) [Mexico (Chiapas)]	
<i>laticalx</i> (Enderlein, 1934) [1933] [Peru (Cuzco)]	
<i>latidigitus</i> (Enderlein, 1936) [Colombia]	
<i>bellardii</i> (Py-Daniel & Moreira Sampaio, 1994) (unnecessary subst. name for <i>mexicanum</i> Bellardi)	
‘nr. <i>tarsatum</i> ’ Hernández-Triana, Prosser, Rodríguez-Pérez, Chaverri, Hebert, Gregory, 2014 ( <i>Simulium</i> sp.)	
<b>virgatum</b> Coquillett, 1902 (complex) .....	USA (New Mexico, Ari, Col, Neb, SD, Texas, Utah,

<i>cinereum</i> Bellardi, 1859 (preocc.) [Mexico (Morelos)]	Wyo); El Salvador, Guatemala, Mexico (Ca, Ch, Co,
<i>tephrodes</i> Speiser, 1904 (subst. name)	Du, Ja, Mi, Mo, Ox, Si, SLP, Tb, Vz), Panama.
<i>rubicundulum</i> Knab, 1915 [1914] [Mexico (Veracruz)]	['Belize' error]
<i>chiapanense</i> Hoffmann, 1930 [Mexico (Chiapas)]	
<i>chiapense</i> : incorrect subsequent spelling	
<b>yepocapense</b> Dalmat, 1949 .....	Guatemala; Mexico (Chiapas, Du)
<i>ardeni</i> Dalmat, 1953 [Guatemala]	
'sp. nov' Ortega-Morales, Hernández-Triana, Elías-Gutiérrez, Ibáñez-Bernal & Rodríguez-Pérez, 2014 .....	Mexico (?)

### Subgenus INSELIELLUM Rubtsov

INSELIELLUM Rubtsov, 1974 (as genus)\*. Type species: *oviceps* (original designation)

#### CASTANEUM species-group

<b>adamsoni</b> Edwards, 1932 .....	Marquesas Islands (Hiva-Oa, Fatu-Hiva, Ua-Pou)
'3' Séchan, 1983 [ <i>in Klein et al.</i> ] ( <i>Simulium</i> sp.)	
<b>adelaideae</b> Craig, 2004 .....	Society Islands (Tahiti)
<b>admixtum</b> Craig, 1987 .....	Society Islands (Tahiti)
<b>caesariatum</b> Craig & Joy, 2000 .....	Society Islands (Tahiti)
<b>castaneum</b> Craig, 1987 .....	Society Islands (Raiatea)
<b>cataractarum</b> Craig, 1987 .....	Society Islands (Tahiti, Moorea)
'IS' Craig, 1983 (cytoform)	
'Moorean' Spironello, Hunter & Craig, 2002 (cytoform) .....	Moorea
'Tahitian' Spironello, Hunter & Craig, 2002 (cytoform) .....	Tahiti
<b>chesmanae</b> Edwards, 1927 .....	Society Islands (Tahiti)
<i>chesmande</i> : incorrect subsequent spelling	
<b>fararae</b> Craig & Joy, 2000 .....	Society Islands (Tahiti)
<b>hirticranium</b> Craig & Joy, 2000 .....	Society Islands (Tahiti)
<b>hispidum</b> Craig & Joy, 2000 .....	Society Islands (Tahiti)
<b>jnabsium</b> Craig, 1997 .....	Society Islands (Tahiti)
<b>joyae</b> Craig, 2000 [ <i>in</i> Craig & Joy] .....	Society Islands (Tahiti)
<b>lonckei</b> Craig, 1997 .....	Society Islands (Tahiti)
<b>pallidicranium</b> Craig & Joy, 2000 .....	Society Islands (Tahiti)
<b>pufauense</b> Craig, 1997 .....	Society Islands (Raiatea)
<b>shannonae</b> Craig, 1997 .....	Society Islands (Tahiti, Moorea)
<b>sublonckei</b> Craig, 2004 .....	Society Islands (Tahiti)

#### OVICEPS species-group

<b>bogusium</b> Craig, 1997 .....	Society Islands (Raiatea)
<b>clibanarius</b> Craig, 1997 [noun, ending emended] .....	Society Islands (Tahiti)
<b>concludium</b> Craig, 1997 .....	Society Islands (Moorea, Tahiti)
<b>dussertorum</b> Craig, 1997 .....	Society Islands (Tahiti, Moorea)
[ <i>oviceps</i> : Craig, 1987 (part), not Edwards]	
<b>mesodontium</b> Craig, 1987 .....	Society Islands (Tahiti)
<b>middlemissae</b> Craig, 1997 .....	Society Islands (Tahiti, Moorea)
<b>neoviceps</b> Craig, 1987 .....	Society Islands (Tahiti, Moorea)
'neoviceps' [vernacular] Craig, 1983 ( <i>Simulium</i> cytoform)	
<b>oviceps</b> Edwards, 1933 (complex) .....	Society Islands (Tahiti, Moorea, Raiatea)
<b>proctorae</b> Craig, 1997 .....	Society Islands (Raiatea)
'unique' Craig, 1983 .....	Society Islands (Tahiti)
'sp.' Craig, 1987 ( <i>Simulium</i> )	

#### TAHITIENSE species-group

<b>arlecchinum</b> Craig, 1987 .....	Society Islands (Tahiti)
<b>connae</b> Craig, 1997 .....	Society Islands (Tahiti)
<b>dojeycorium</b> Craig, 1997 .....	Society Islands (Tahiti)
<b>exasperans</b> Craig, 1987 .....	Society Islands (Tahiti, Moorea)
? 'IIS' Craig, 1983 ( <i>Simulium</i> cytoform)	
'A' Spironello & Hunter, 2004 (cytoform) .....	Society Islands (Moorea)
'B' Spironello & Hunter, 2004 (cytoform) .....	Society Islands (Moorea, Tahiti)
<b>fossatae</b> Craig, 1997 .....	Society Islands (Tahiti)
<b>pseudocorium</b> Craig & Joy, 2000 .....	Society Islands (Moorea)
<b>tahitiense</b> Edwards, 1927 (complex) .....	Society Islands (Tahiti)

*Inseliellum* species unplaced to group

<b>buissoni</b> Roubaud, 1906 .....	Marquesas Islands (Nuku-Hiva, Eiao, Hiva-Oa, Ua-Huka)
<b>englundi</b> Craig, 2004 .....	Marquesas Islands (Mohotani)
<b>evenhuisi</b> Craig, 1997 .....	Society Islands (Tahiti)
<b>gallinum</b> Edwards, 1932 .....	Marquesas Islands (Hiva-Oa, Fatu-Hiva, Tahuata, Ua-Huka, Ua-Pou)
<b>guamense</b> Stone, 1964 .....	Guam
[ <i>trukense</i> : part Craig & Currie, 1999 (part), not Stone]	
<b>hukaense</b> Séchan, 1983 [ <i>in</i> Klein, Rivière & Séchan] .....	Marquesas Islands (Ua-Huka [neotype, unnecessary], Nuku-Hiva, Ua-Pou)
<i>uahukae</i> Lavondes & Pichon, 1972 (unav., <i>nomen nudum</i> )	
'sp. n.' Craig, 1983 ( <i>Simulium</i> )	
<i>nakuhae</i> : incorrect subsequent spelling	
<b>littopyga</b> Craig & Evenhuis, 2017 .....	Society Islands (Tahiti)
<b>littosocius</b> Craig & Evenhuis, 2017 .....	Society Islands (Tahiti, Raiatea)
<b>littosodalis</b> Craig & Evenhuis, 2017 .....	Society Islands (Tahiti)
<b>lotii</b> Craig, 1987 .....	Society Islands (Tahiti, Huahine, Moorea, Raiatea, Tahaa)
<i>opunohuense</i> Craig, 1987 [Society Islands (Moorea)]	
'light' Craig, 1987 ( <i>Simulium</i> cytoform)	
<b>malardei</b> Craig, 1987 .....	Society Islands (Tahiti, Bora Bora, Huahine, Moorea, Raiatea, Tahaa)
'new' Craig, 1983 ( <i>Simulium</i> cytoform)	
<b>maraaense</b> Craig, 1997 .....	Society Islands (Tahiti)
<b>mataverense</b> Craig & Craig, 1986 .....	Cook Islands (Rarotonga)
'damn' Craig, 1983 ( <i>Simulium</i> cytoform and morphoform)	
<i>matavera</i> : incorrect subsequent spelling	
<b>mumfordi</b> Edwards, 1932 .....	Marquesas Islands (Hiva-Oa)
<b>pichoni</b> Craig, Fossati & Séchan, 1995 .....	Marquesas Islands (Fatu-Hiva)
<b>raivavaense</b> Craig & Porch, 2013 .....	Austral Islands (Raivavae [subfossils])
<b>rivierei</b> Craig, Fossati & Séchan, 1995 .....	Marquesas Islands (Fatu-Hiva, Hiva-Oa, Ua-Pou)
<b>rurutuense</b> Craig, 1997 .....	Austral Islands (Rurutu, Tubuai [subfossils])
<b>sechani</b> Craig & Fossati, 1995 [ <i>in</i> Craig, Fossati & Séchan] .....	Marquesas Islands (Eiao, Nuku-Hiva)
<b>teruamanga</b> Craig & Craig, 1986 .....	Cook Islands (Rarotonga, Atiu [subfossils], Mangaia [subfossils])
'teruamanga' [vernacular] Craig, 1983 ( <i>Simulium</i> cytoform and morphoform)	
<b>trukense</b> Stone, 1964 .....	Federated States of Micronesia (Chuuk = Truk Islands)
<i>truckense</i> : incorrect subsequent spelling	
<b>uaense</b> Séchan, 1983 [ <i>in</i> Klein, Rivière & Séchan] .....	Marquesas Islands (Ua-Pou, Ua-Huka)
'1' Séchan, 1983 [ <i>in</i> Klein, Rivière & Séchan] ( <i>Simulium</i> sp.) .....	Marquesas Islands (Nuku-Hiva)
'2' Séchan, 1983 [ <i>in</i> Klein, Rivière & Séchan] ( <i>Simulium</i> sp.) .....	Marquesas Islands (Nuku-Hiva)

**Subgenus LEWISELLUM Crosskey**

**LEWISELLUM** Crosskey, 1969 (as subgenus of *Simulium*). Type species: *neavei* (original designation)

<b>atyophilum</b> Lewis & Disney, 1969 .....	Cameroon
--	----------

<b>ethiopiense</b> Fain & Oomen, 1968 .....	Ethiopia
<b>goinyi</b> Lewis & Hanney, 1965 .....	Kenya; Uganda
<i>goinyi</i> Lewis, 1961 ( <i>ovazzae</i> ssp.) (unav., <i>nomen nudum</i> )	
‘Kenya “woodi”’ Lewis, 1961 (morphoform)	
<i>goignyi</i> : incorrect subsequent spelling	
[ <i>woodi</i> : McMahon, 1957, not De Meillon]	
<b>hightoni</b> Lewis, 1961 .....	Kenya; Uganda
<i>higtoni</i> : incorrect subsequent spelling	
[ <i>nyasalandicum</i> : McMahon, 1957, not De Meillon]	
<b>kivuense</b> Gouteux, 1978 [1977] .....	Democratic Republic of Congo; Burundi (?), Rwanda (?), Uganda (?)
<b>neavei</b> Roubaud, 1915 .....	Uganda; Democratic Republic of Congo, Kenya , Angola (?)
<i>renauxi</i> Wanson & Lebled, 1950 [Democratic Republic of Congo]	
<i>naevei</i> , <i>naevi</i> , <i>neavi</i> , <i>noevei</i> : incorrect subsequent spellings	
<b>nyasalandicum</b> De Meillon, 1930 .....	Malawi; Kenya, Tanzania, Ethiopia (?)
‘Amani unbanded’ Lewis, 1960 (morphoform)	
‘Amani’ Lewis, 1961 (morphoform)	
‘Amani form A’ Procunier & Muro, 1994 ( <i>neavei</i> cytoform)	
‘Amani form A variant’ Procunier & Muro, 1994 ( <i>neavei</i> cytoform)	
<i>nvassalandicum</i> , <i>nyazalandicum</i> , <i>nyazlandicum</i> : incorrect subsequent spellings	
<b>ovazzae</b> Grenier & Mouchet, 1959 .....	Cameroon; Congo, Democratic Republic of Congo, Ivory Coast, Liberia, Uganda
<i>ivoriense</i> Gouteux, 1979 [1978] (ssp.) [Ivory Coast]	
<b>woodi</b> De Meillon, 1930 .....	Malawi; Tanzania, Zambia (?)
‘Amani banded’ Lewis, 1960 (morphoform)	
‘Amani form B’ Procunier & Muro, 1994 ( <i>neavei</i> cytoform)	
‘Uvinza’ Lewis & Raybould, 1974 ( <i>Simulium</i> sp.) .....	Tanzania

### Subgenus MEILLONIELLUM Rubtsov

**MEILLONIELLUM** Rubtsov, 1962 (as genus). Type species: *hirsutum* (original designation)

<b>adersi</b> Pomeroy, 1922 .....	Tanzania (Zanzibar, mainland); Angola, Benin, Botswana, Burkina Faso, Cameroon, Central African Republic, Chad, Comoro Islands (Anjouan, Mayotte), Congo, Democratic Republic of Congo, Ethiopia, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Lesotho, Madagascar, Malawi, Mali, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, South Africa (EC, FS, G, KZN, L, M, NC, NW, WC), South Sudan, Sudan, Swaziland, Togo, Uganda, Zambia, Zimbabwe
<i>adversi</i> : incorrect subsequent spelling	
<b>hirsutum</b> Pomeroy, 1922 .....	Tanzania; Angola, Burundi, Cameroon, Democratic Republic of Congo, Ethiopia, Kenya, Malawi, Mozambique, Nigeria, South Africa (EC, KZN, L, M, WC), South Sudan, Sudan, Swaziland, Uganda, Zimbabwe. [‘Sierra Leone’ error]
<i>dubium</i> Pomeroy, 1922 [Tanzania]	
<b>sexiens</b> De Meillon, 1944§ .....	Kenya; Democratic Republic of Congo, Ethiopia, Rwanda, Uganda
<b>urundiense</b> Fain, 1950 .....	Burundi; Ethiopia (?)
<i>urundiesi</i> : incorrect subsequent spelling]	
<b>yemenense</b> Crosskey & Garms, 1982 [ <i>in</i> Crosskey & Büttiker] .....	Yemen; Saudi Arabia (Asir)
[ <i>urundiense</i> : Rivosecchi, Merighi & Parrinello, 1969, not Fain]	

### Subgenus METOMPHALUS Enderlein



**METOMPHALUS** Enderlein, 1935 (as genus). Type species: *medusaeforme*, as *caffer* (original designation)

BOVIS species-group

<b>albivirgulatum</b> Wanson & Henrard, 1944 .....	Democratic Republic of Congo; Angola, Botswana, Congo, Gabon, South Africa (KZN), Zambia, Zimbabwe
<i>albivirgulatum</i> : incorrect subsequent spelling	
<b>arnoldi</b> Gibbins, 1937 .....	Zimbabwe; Kenya, South Sudan, Tanzania, Zambia
<b>bovis</b> De Meillon, 1930*** .....	South Africa (KwaZulu Natal, EC, L, M, WC); Angola, Benin, Botswana, Burkina Faso, Cameroon, Democratic Republic of Congo, Eritrea, Ethiopia, Guinea, Kenya, Malawi, Mozambique, Namibia, Nigeria, South Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe
<i>faini</i> Wanson, 1947 [Democratic Republic of Congo]	
<i>ulangae</i> Lewis & Raybould, 1974 (ssp.) [Tanzania]	
<b>chutteri</b> Lewis, 1965 .....	South Africa (Northern Cape, EC, FS, NW); Lesotho, Namibia
<b>dawaense</b> Uemoto, Ogata & Mebrahtu, 1977 .....	Ethiopia
<b>eouzani</b> Germain & Grenier, 1970 [1969] .....	Cameroon
<b>fragai</b> Abreu, 1960 .....	Angola; Namibia
<i>fragae</i> : incorrect subsequent spelling	
<b>gibense</b> Uemoto, Ogata & Mebrahtu, 1977 .....	Ethiopia
<b>janzi</b> Abreu, 1961 .....	Angola
<b>jimmaense</b> Uemoto, Ogata & Mebrahtu, 1977 .....	Ethiopia
<b>kwangoense</b> Fain & Elsen, 1974 .....	Democratic Republic of Congo
<b>wellmanni</b> Roubaud, 1906 .....	Angola; Burundi, Cameroon, Democratic Republic of Congo, Rwanda, South Africa (EC, FS, KZN, L, M), Swaziland, Zambia
<i>magoebae</i> De Meillon, 1935 [South Africa (Limpopo)]	
<i>wellamni</i> , <i>wellmani</i> : incorrect subsequent spellings	
‘Sudan A’ Lewis, 1965 ( <i>Simulium</i> ) .....	Sudan
[ <i>arnoldi</i> : Freeman & De Meillon, 1953 (part), not Gibbins]	

MEDUSAEFORME species-group

<b>africanum</b> Gibbins, 1934 .....	Uganda; Kenya, Lesotho
<i>trimicrosphaerae</i> Fain, Bafort & Silberstein, 1976 (ssp.) [Kenya]	
<i>trimicrosphaerae</i> : incorrect subsequent spelling	
<b>akouense</b> Fain & Elsen, 1973 .....	Cameroon
<b>cavum</b> Gibbins, 1938 (subst. name) .....	Uganda
<i>obscurum</i> Gibbins, 1937 (preocc.) [Uganda]	
<b>colasbelcouri</b> Grenier & Ovazza, 1951 .....	Congo; Angola, Cameroon, Democratic Republic of Congo, Equatorial Guinea (Bioko), Guinea, Ivory Coast, Liberia, South Sudan
<i>tchabalense</i> Fain & Elsen, 1973 (ssp.) [Cameroon]	
<b>crosskeyi</b> Lewis & Disney, 1970 .....	Cameroon
‘Wowe’ Disney, 1969 ( <i>Simulium</i> morphoform)	
<b>danense</b> Gouteux, 1979 [1978] .....	Ivory Coast
<b>futaense</b> Garms & Post, 1966 .....	Guinea; Cameroon, Ivory Coast, Liberia
<b>gyas</b> De Meillon, 1951 .....	Madagascar
‘M6’ Grenier & Doucet, 1950 ( <i>Simulium</i> sp.)	
<b>hargreavesi</b> Gibbins, 1934 .....	Uganda; Angola, Benin, Burkina Faso, Cameroon, Central African Republic, Congo, Democratic Republic of Congo, Eritrea, Ethiopia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Malawi, Mali, Mozambique, Nigeria, Rwanda, Saudi Arabia (Asir), Sierra Leone, South Africa (EC, KZN, M, NC, NW), South Sudan, Sudan, Swaziland, Tanzania, Togo, Uganda, Yemen, Zambia, Zimbabwe
<i>elgonense</i> Gibbins, 1934 [Uganda]	
<i>tisiphone</i> De Meillon, 1936 [South Africa (KwaZulu Natal)]	
<i>loangolense</i> Roubaud & Grenier, 1943 [Democratic Republic of Congo]	
<i>hargreavesi</i> : incorrect subsequent spelling	
<i>elgoneus</i> : incorrect subsequent spelling	
<b>kingundense</b> Fain & Elsen, 1974 .....	Democratic Republic of Congo
<b>letabum</b> De Meillon, 1935 .....	South Africa (Limpopo, EC, KZN, M); Lesotho, Swaziland (?)

<b>medusaeforme</b> Pomeroy, 1920 .....	Cameroon; Angola, Burundi, Democratic Republic of Congo, Ethiopia, Kenya, Lesotho, Malawi, Mozambique, Rwanda, South Africa (EC, FS, G, KZN, M, NC, NW, WC), Swaziland, Tanzania, Uganda, Zambia, Zimbabwe
<i>ugandae</i> Gibbins, 1934 [Uganda]	
<i>capense</i> (Enderlein, 1935) [South Africa (Western Cape)]	
<i>caffrum</i> (Enderlein, 1935, <i>caffer</i> ) [South Africa ('Caffraria')]	
<i>pseudomedusaeforme</i> De Meillon, 1936 [South Africa (KwaZulu Natal)]	
<i>angolense</i> Abreu, 1961 (unav., var. post-1960)	
<i>medusoeformis</i> : incorrect subsequent spelling	
<b>natalense</b> De Meillon, 1950 .....	South Africa (KwaZulu Natal)
<b>ngouense</b> Fain & Elsen, 1973 .....	Cameroon; Nigeria
[ <i>colasbelcouri</i> : Crosskey, 1957, not Grenier & Ovazza]	
<b>pentaceros</b> Grenier & Brunhes, 1972 .....	Madagascar
<b>ruandae</b> Fain, 1950 .....	Rwanda; Democratic Republic of Congo
<b>taylori</b> Gibbins, 1938 .....	Uganda; Tanzania
<i>taylori</i> Gibbins, 1937 (unav., <i>nomen nudum</i> )	
'Mahenge' Lewis & Raybould, 1974 (morphoform)	
<b>tondewandouense</b> Fain & Elsen, 1973 .....	Cameroon
<b>touffeum</b> Gibbins, 1937 .....	Uganda; Kenya
<b>vorax</b> Pomeroy, 1922 .....	Tanzania; Angola, Benin, Burkina Faso, Burundi, Democratic Republic of Congo, Ethiopia, Guinea, Kenya, Lesotho, Malawi, Mali, Mozambique, Nigeria, Rwanda, South Africa (EC, FS, KZN, L, M, WC), Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe
<i>limbatum</i> Enderlein, 1921 [April] (unav., <i>nomen nudum</i> )	
<i>limbatum</i> Enderlein, 1921 [December] (preocc.) [Tanzania]	
<i>lepidum</i> De Meillon, 1935 [South Africa (Limpopo)]	
<i>tangae</i> Smart, 1944 (subst. name, for <i>limbatum</i> )	
<b>zombaense</b> Freeman & De Meillon, 1953 .....	Malawi

#### Subgenus MONTISIMULIUM Rubtsov

**MONTISIMULIUM** Rubtsov, 1974 (as genus). Type species: *schevyakovi* (original designation)

<b>alizadei</b> (Djafarov, 1954) .....	Azerbaijan; Armenia, China (Si), Georgia, Kazakhstan, Russia (Caucasus), Turkey
<i>gyiletense</i> (Rubtsov, 1956) [Russia (Caucasus)]	
<i>lachense</i> (Rubtsov, 1962) [Azerbaijan]	
<i>megrichaense</i> (Rubtsov, 1962) [Armenia]	
<i>alisadei</i> , <i>alisedei</i> : incorrect subsequent spellings	
<i>gyiletense</i> , <i>gyiletense</i> : incorrect subsequent spellings	
<b>alpinum</b> Rubtsov, 1947 .....	Kyrgyzstan
<b>angkaense</b> Takaoka & Choochote, 2005 .....	Thailand
<b>arpiense</b> (Terteryan & Kachvoryan, 1982) .....	Armenia
<b>assadovi</b> (Djafarov, 1956) .....	Azerbaijan; Iran
<b>asulcatum</b> (Rubtsov, 1956) .....	Uzbekistan
<b>bartangum</b> (Chubareva, 2000) .....	Tajikistan
<b>birzhankolum</b> (Yankovsky, Isakaev & Khasanova, 2010) .....	Kazakhstan
<b>brachystylum</b> (Rubtsov, 1976) .....	Tajikistan
<i>brachystulum</i> : incorrect subsequent spelling	
<b>brevicorne</b> (Rubtsov, 1964) .....	Tajikistan
<b>bulbosum</b> Lewis, 1973 .....	Pakistan
<b>chowi</b> Takaoka, 1979 .....	Taiwan
<i>chuanbeisense</i> Chen & Zhang, 2007 [ <i>in</i> Liu, Wen & Chen] (unav., <i>nomen nudum</i> ) .....	China (Sichuan)
<i>chuanbeisense</i> : incorrect subsequent spelling	
<b>concastylum</b> Deng, Zhang & Chen, 1995 .....	China (Tibet)
<i>concastylum</i> Sun, 1994 (attrib. Duang & Chen, 1993) (unav., <i>nomen nudum</i> )	
<i>cancavustylum</i> , <i>concauustylum</i> : incorrect subsequent spellings	
<b>danijari</b> (Chubareva & Ismagulov, 1992) .....	Kazakhstan
<b>dasguptai</b> Datta, 1974 .....	India (West Bengal); China (Sichuan)

<b>dattai</b> Takaoka & Somboon, 2008 .....	Bhutan; India (WB), Nepal
‘B’ Datta, Dey & Paul, 1975 ( <i>Simulium</i> sp.)	
<b>decafile</b> (Rubtsov, 1976) .....	Kazakhstan
<i>decafilium</i> (Yankovsky, 1996) (unnecessary subst. name)	
<b>decimfilium</b> (Rubtsov, 1956) .....	Uzbekistan; Tajikistan
<b>djebaglense</b> (Rubtsov, 1956) .....	Kyrgyzstan
<b>duodecimcornutum</b> (Rubtsov, 1956) (subst. name) .....	Tajikistan
<i>duodecimfilum</i> (Rubtsov, 1947, as <i>12-filum</i> ) (unav., <i>nomen nudum</i> )	
<i>duodecimatium</i> (Rubtsov, 1951) (preocc.)	
<i>duodecimcornatum</i> : incorrect subsequent spelling	
<b>euryplatamus</b> Sun, 1994 .....	China (Liaoning)
<i>euryplatamus</i> Sun & Song, 1995 (repeat description as sp. nov.)	
<i>enryplatamus</i> : incorrect subsequent spelling	
<b>ghoomense</b> Datta, 1975 .....	India (West Bengal); China (Tibet)
<b>hailuogouense</b> Chen, Huang & Zhang, 2005 .....	China (Sichuan)
<b>heishuiense</b> Chen & Wen, 2006 [ <i>in</i> Wen & Chen] .....	China (Sichuan)
<b>inflatum</b> (Rubtsov, 1951) .....	Tajikistan; Kazakhstan
<b>jasgulemum</b> (Chubareva, 2000) .....	Tajikistan
<b>jiajinshanense</b> Zhang & Chen, 2006 .....	China (Sichuan)
<i>jisigouense</i> Chen & Zhang, 2007 [ <i>in</i> Liu, Wen & Chen]	
(unav., <i>nomen nudum</i> ) .....	China (Sichuan)
<b>jumlaense</b> Takaoka & Adler, 2020 [ <i>in</i> Takaoka, Shrestha, Dangi & Adler] .....	Nepal
<b>kambaitense</b> Takaoka, 1989 .....	Burma
<b>kerzhneri</b> (Rubtsov, 1975) .....	Mongolia
<b>kirgisorum</b> (Rubtsov, 1956) .....	Kyrgyzstan; China (Be, Hubei, Tibet, Yu)
<i>kirgisorum</i> (Xue, 1991) (secondary homonym of <i>kirgisorum</i> Rubtsov, 1956, but no available subst. name) .....	China (Yunnan)
<b>kobayashii</b> Okamoto, Yoshida, Sato & Shogaki, 1958 .....	Japan (Honshu, Hok)
<b>kurganense</b> (Rubtsov, 1956) .....	Kyrgyzstan
<b>laoleense</b> Takaoka & Choochote, 2005 .....	Thailand
<b>lepnevae</b> (Rubtsov, 1956) .....	Tajikistan
<b>lingzhiense</b> Deng, Zhang & Chen, 1995 .....	China (Tibet)
<i>lingziense</i> : alternative original spelling (here treated as incorrect)	
<i>lingziense</i> Sun, 1994 (attrib. Duang & Chen, 1993) (unav., <i>nomen nudum</i> )	
<b>litshkense</b> (Rubtsov, 1956) .....	Armenia
<b>longifilium</b> (Rubtsov, 1976) .....	Kazakhstan
<i>longifilium</i> : incorrect original spelling (alternative)	
<b>luliangense</b> Chen & Lian, 2011 [ <i>in</i> Chen, Lian & Zhang] .....	China (Shanxi)
<i>lvliangense</i> , <i>uliangense</i> : incorrect original spellings	
<b>merga</b> Takaoka & Choochote, 2005 .....	Thailand
‘G’ Kuvangkadilok, Boonkemtong & Phayuhasena, 1998 ( <i>Simulium</i> sp.)	
<b>montium</b> Rubtsov, 1947 .....	Tajikistan; Kazakhstan, Kyrgyzstan, Pakistan, Russia (Caucasus)
<b>moxiense</b> Chen, Huang & Zhang, 2005 .....	China (Sichuan)
<b>nanense</b> Takaoka & Srisuka, 2010 [ <i>in</i> Takaoka, Srisuka, Saeung, Otsuka, Aoki & Choochote ( <i>sic</i> )] .....	Thailand
<b>nemorivagum</b> Datta, 1973 .....	India (West Bengal, ArP); Bhutan, China (Tibet), Nepal, Pakistan
<i>nemoriragum</i> , <i>nemoriuagum</i> , <i>nomorivagum</i> : incorrect subsequent spellings	
<b>nigrofilum</b> Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Takaoka, Sofian- Azirun, Ya’cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>obichingoum</b> (Chubareva, 2000) .....	Tajikistan
<b>ocreastylum</b> (Rubtsov, 1956) .....	Tajikistan; Armenia
<i>ocreastilum</i> , <i>ocreastsylum</i> : incorrect subsequent spelling	
<b>octofilium</b> (Rubtsov, 1956) .....	Tajikistan; Kazakhstan

<i>batifile</i> (Rubtsov & Shakirzyanova, 1976) [Kazakhstan]	
<i>breviatum</i> (Rubtsov & Shakirzyanova, 1976) [Kazakhstan]	
<b>odontostylum</b> Rubtsov, 1947 .....	Tajikistan
<i>odonhostylum, odontostilum, odontostylium, odoutosylum</i> : incorrect subsequent spellings	
<b>onum</b> (Bodrova, 1988) [ <i>in</i> Bodrova & Luk'yanchuk]* .....	Japan (Hokkaido)
[ <i>sakhalinum</i> : Ono, 1977, not Rubtsov]	
<b>peskovi</b> (Ismagulov & Koshkimbaev, 1996) .....	Kazakhstan
<b>phahompokense</b> Takaoka & Srisuka, 2010 .....	Thailand
<b>polyprominulum</b> Chen & Lian, 2011 [ <i>in</i> Chen, Lian & Zhang] .....	China (Shanxi)
<i>polypominulum</i> : incorrect subsequent spelling	
<b>quattuordecimfiliatum</b> (Rubtsov, 1976) .....	Kazakhstan; Tajikistan
<i>quattuordecimfiatiatum, quattuordesimfiliatum</i> : incorrect subsequent spellings	
<b>quattuordecimfilum</b> Rubtsov, 1947 (as <i>I4-filum</i> ) .....	Tajikistan; Uzbekistan
<i>vallesense</i> (Rubtsov, 1962) (ssp.) [Tajikistan]	
<i>I4-filatum</i> : incorrect original spelling (alternative)	
<i>quattaordecimfilum, quattuordecimfilium, quatuordecimfilum</i> : incorrect subsequent spellings	
<b>sakhalinum</b> (Rubtsov, 1962) .....	Siberia (Sakhalin FE). ['Japan' error]
<b>saradzhoense</b> (Rubtsov, 1956) .....	Tajikistan; Kazakhstan
<i>saadzhoense</i> : incorrect subsequent spelling	
<b>schevyakovi</b> Dorogostaisky, Rubtsov & Vlasenko, 1935 .....	Siberia (Baikal ES, FE, WS); Kazakhstan, Mongolia
<i>comosum</i> (Rubtsov, 1956) [Siberia (Buryatskaya)]	
<i>chevyakovi, schejakovi, schevyakvi, sheviakovi, shevjacovi, shevjakovi, shevjakowi, shevjekovi, shevyakovi</i> : incorrect subsequent spellings	
<b>schizolomum</b> Deng, Zhang & Chen, 1995 .....	China (Tibet)
<i>schizolomum</i> Sun, 1994 (attrib. Duang & Chen, 1993) (unav., <i>nomen nudum</i> )	
<i>schinolomum, schizolomun</i> : incorrect subsequent spellings	
<b>schizostylum</b> Chen & Zhang, 2011 [ <i>in</i> Chen, Lian & Zhang] .....	China (Shanxi)
<b>separatum</b> Chen, Xiu & Zhang, 2012 .....	China (Guizhou)
<b>shadini</b> (Rubtsov, 1956) .....	Tajikistan
<b>sheveligiense</b> (Rubtsov & Violovich, 1965) .....	Siberia (Tuva WS)
<b>sonkulense</b> (Yankovsky, 2000) .....	Kyrgyzstan
<b>stackelbergi</b> (Rubtsov, 1956) .....	Tajikistan
<b>surachaii</b> Takaoka & Choochote, 2005 .....	Thailand
<b>sytshevskiae</b> (Rubtsov, 1967) .....	Tajikistan
<b>taishanense</b> Sun & Li, 2000 .....	China (Shandong)
<b>taktsangense</b> Takaoka & Somboon, 2008 .....	Bhutan
<i>tanae</i> (Xue, 1993) (secondary homonym of <i>tanae</i> Xue, 1992, but no available subst. name) .....	China (Yunnan)
<b>tatiana</b> (Bodrova, 1981) .....	Siberia (Maritime FE)
<b>tibetense</b> Deng, Xue, Zhang & Chen, 1994 .....	China (Tibet)
<b>vantshum</b> (Chubareva, 2000) .....	Tajikistan
<b>violovitshi</b> (Rubtsov, 1962) .....	Siberia (Sakhalin FE)
<b>weisiense</b> Deng, Xue & Chen, 2005 .....	China (Yunnan)
<b>wulaofengense</b> Chen & Zhang, 2011 [ <i>in</i> Chen, Lian & Zhang] .....	China (Shanxi)
<b>xinzhouense</b> Chen & Zhang, 2011 [ <i>in</i> Chen, Lian & Zhang] .....	China (Shanxi)
<b>yuntaiense</b> Chen, Wen & Wei, 2006 [ <i>in</i> Wen, Wei & Chen] .....	China (Henan)
<i>yumtaiense</i> : incorrect subsequent spelling	
'C' Datta, Dey & Paul, 1975 ( <i>Simulium</i> sp.) .....	India (WB)
'Kalam' Lewis, 1973 ( <i>Simulium</i> sp.) .....	Pakistan
'2' Saito, Uemoto & Afzal, 1989 ( <i>Simulium</i> sp.) .....	Pakistan
'1' (Ismagulov, 1993) (thesis) ( <i>Montisimulium</i> sp.) .....	Kazakhstan
'2' (Ismagulov, 1993) (thesis) ( <i>Montisimulium</i> sp.) .....	Kazakhstan
'3' (Ismagulov, 1993) (thesis) ( <i>Montisimulium</i> sp.) .....	Kazakhstan

'4' (Ismagulov, 1993) (thesis) ( <i>Montisimulium</i> sp.) .....	Kazakhstan
'B' Zhang, Wen & Chen, 1999 ( <i>Simulium</i> sp.) .....	China (Guizhou)
'5' (Chubareva & Petrova, 2003 ( <i>Montisimulium</i> sp.) .....	Tajikistan

### Subgenus MOROPS Enderlein

**MOROPS** Enderlein, 1930 (as genus)\*. Type species: *wilhelmlandae*, as *pygmaeum* (original designation)  
*PSELAPHOCHIR* Enderlein, 1936 (as genus). Type species: *oculatum* (original designation)

#### CLATHRINUM species-group

<b>aropaense</b> Takaoka, 1995 .....	New Guinea (Bougainville)
<b>avilae</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>biakense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>clathrinum</b> Mackerras & Mackerras, 1948 .....	Australia (Queensland, NSW)
<b>gagiduense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>hagai</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>halmaheraense</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>kawagishii</b> Takaoka & Suzuki, 1995 .....	Solomon Islands (Guadalcanal)
<b>kietaense</b> Takaoka, 1995 .....	New Guinea (Bougainville)
<b>lalokiense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>malukuense</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>manokwariense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>manuselaense</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>pohaense</b> Takaoka & Suzuki, 1995 .....	Solomon Islands (Guadalcanal, New Georgia Islands)
<b>ransikiense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>raunsimnae</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland, New Britain)
<b>selwynense</b> Takaoka & Suzuki, 1995 .....	Solomon Islands (Guadalcanal, New Georgia Islands)
<b>solomonense</b> Takaoka & Suzuki, 1995 .....	Solomon Islands (New Georgia Island)
<b>sorongense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>tefulaense</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>watetoense</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>wilhelmlandae</b> Smart, 1944 (subst. name) .....	New Guinea (PNG mainland)
<i>pygmaeum</i> (Enderlein, 1922) (preocc.)	

#### FAHEYI species-group

<b>dycei</b> Colbo, 1976 .....	Australia (Queensland, NT)
'1' Colbo, 1974 (thesis) ( <i>Simulium</i> sp.)	
<b>faheyi</b> Taylor, 1927 .....	Australia (Queensland, NT)
<b>lawnhillense</b> Colbo, 1976 .....	Australia (Queensland, NT)
'4' Colbo, 1974 (thesis) ( <i>Simulium</i> sp.)	
<b>mackerrorum</b> Colbo, 1976 .....	Australia (Queensland, NT, WA)
'B' Mackerras & Mackerras, 1949 ( <i>Simulium</i> sp.)	
'3' Colbo, 1974 (thesis) ( <i>Simulium</i> sp.)	
<b>nicholsoni</b> Mackerras & Mackerras, 1948 .....	Australia (Queensland, NSW, Vic)
<b>torresianum</b> Mackerras & Mackerras, 1955 .....	Australia (Queensland: Badu Island)

#### FARCIMINIS species-group

<b>arfakense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>botulus</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland); Indonesia (Irian Jaya)
<b>cervus</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>clavum</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>evelynae</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>farciminis</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland); Indonesia (Irian Jaya)
<b>fimbriatum</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)

<b>jayapuraense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>pamahaense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>rounae</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>wantoatense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)

#### MELATUM species-group

<b>aureonigrum</b> Mackerras & Mackerras, 1950 .....	Australia (Queensland)
<b>inornatum</b> Mackerras & Mackerras, 1950 .....	Australia (Queensland, NSW, Vic)
<b>inuitkiense</b> Smart & Clifford, 1965 .....	New Guinea (New Britain)
<b>irayense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>kainantuense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>melatum</b> Wharton, 1949 [1948] .....	Australia (New South Wales, Qld, Vic)
<i>melanum</i> : incorrect subsequent spelling	
<b>nudipes</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>saihoense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>standfasti</b> Colbo, 1976 .....	Australia (Queensland)
'2' Colbo, 1974 (thesis) ( <i>Simulium</i> sp.)	
<b>wamenaense</b> Smart & Clifford, 1965 .....	Indonesia (Irian Jaya)

#### OCULATUM species-group

<b>angiense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>baliemense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>cristatum</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>demutaense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>gorokae</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>irianense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>mendiense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>minji</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>motoyukii</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>norforense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>oculatum</b> (Enderlein, 1936) .....	New Guinea (PNG mainland)
<b>prafiense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>purosae</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>sutebense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>takae</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)
<b>wakrisense</b> Takaoka, 2003 .....	Indonesia (Irian Jaya)

#### PAPUENSE species-group

<b>papuense</b> Wharton, 1948 .....	New Guinea (PNG mainland); Indonesia (Irian Jaya, Maluku), Solomon Islands (Guadalcanal)
-------------------------------------	--

#### *Morops* species unplaced to group

<b>brandti</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>josephi</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>kaiti</b> Smart & Clifford, 1965 .....	New Guinea (New Ireland)
<b>kokodae</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>longirostre</b> Smart & Clifford, 1972 (subst. name) .....	New Guinea (PNG mainland)
<i>rostratum</i> Smart & Clifford, 1965 (preocc.)	
<b>mafuluense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>matokoense</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
<b>mussauense</b> Delfinado, 1971 .....	New Guinea (Mussau Island)
<b>tafae</b> Smart & Clifford, 1965 .....	New Guinea (PNG mainland)
'A' Smart & Clifford, 1965 ( <i>Simulium</i> sp.) .....	New Guinea (PNG mainland)
'B' Smart & Clifford, 1965 ( <i>Simulium</i> sp.) .....	New Guinea (PNG mainland)

- 'C' Smart & Clifford, 1965 (*Simulium* sp.) ..... New Guinea (PNG mainland)  
 'D' Smart & Clifford, 1965 (*Simulium* sp.) ..... New Guinea (PNG mainland)

### Subgenus NEVERMANNIA Enderlein

- NEVERMANNIA** Enderlein, 1921 (as genus). Type species: *ruficorne*, as *annulipes* (original designation)  
*CNETHA* Enderlein, 1921 (as genus). Type species: *vernum* (designation by ICZN Opinion 1416, Gen. List.)  
*STILBOPLAX* Enderlein, 1921 (as genus). Type species: *speculiventre* (original designation)  
*PSEUDONEVERMANNIA* Baranov, 1926 (as subgenus of *Nevermannia*). Type species: *vernum* (designation by ICZN Opinion 1416, Index)  
*CRYPTECTEMNIA* Enderlein, 1936 (as genus). Type species: *orsovae*, as *laticalx* (original designation)  
*CHELOCNETHA* Enderlein, 1936 (as genus). Type species: *ornatipes*, as *biroi* (original designation)  
*DEXOMYIA* Crosskey, 1969 (as subgenus of *Simulium*). Type species: *atlanticum* (original designation)  
*CRYPFECFEMNIA*: incorrect subsequent spelling  
*NERENNANIA*, *NEUERMANNIA*, *NEVERMARNIA*: incorrect subsequent spellings

#### ATLANTICUM species-group

- atlanticum** Crosskey, 1969 ..... Saint Helena Island  
*allanticum*: incorrect subsequent spelling

#### FEUERBORNI species-group

- bachmaense** Takaoka, Sofian-Azirun & Ya'cob, 2014 [*in* Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] ..... Vietnam  
**borneoense** Takaoka, 2001 ..... Malaysia (Sabah)  
**bryopodium** Delfinado, 1971 ..... Philippines (Palawan)  
**chairuddini** Takaoka, 2003 ..... Indonesia (Sulawesi)  
**chiangklangense** Takaoka & Choochote, 2005 ..... Thailand  
**chitoense** Takaoka, 1979 ..... Taiwan; China (Hainan)  
**fangense** Takaoka & Choochote, 2006 ..... Thailand  
**feuerborni** Edwards, 1934 (complex) ..... Indonesia (Java, Bali, Sumatra); Thailand  
 'B' Takaoka & Suzuki, 1984 (*Simulium* sp.)  
 'nr. *feuerborni* 1' Thanwisai, Kuvangkadilok & Baimai, 2006 (*Simulium* sp.) (molecular form)  
 'nr. *feuerborni* 2' Thanwisai, Kuvangkadilok & Baimai, 2006 (*Simulium* sp.) (molecular form)  
 'A' Pramual & Wongpakam, 2013 (cytoform) ..... Thailand  
 'B' Pramual & Wongpakam, 2013 (cytoform) ..... Thailand  
 'D' Pramual, Thaijarern, Sofian-Azirun, Ya'cob, Hadi & Takaoka, 2015 (cytoform, typical) ..... Indonesia (Java)  
**fruticosum** Takaoka & Choochote, 2005 ..... Thailand  
**fuscinervis** Edwards, 1933 ..... Malaysia (Sabah)  
**izuense** Takaoka & Saito, 2005 ..... Japan (Honshu)  
**langbiangense** Takaoka, Sofian-Azirun & Ya'cob, 2014 [*in* Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] ..... Vietnam  
**ledangense** Ya'cob, Takaoka & Sofian-Azirun 2014 ..... Malaysia (Malaya)  
**leigongshanense** Chen & Zhang, 1997 ..... China (Guizhou)  
*laigongshanense*: incorrect subsequent spelling  
**maeiense** Takaoka & Srisuka, 2011 ..... Thailand, Vietnam  
**mie** Ogata & Sasa, 1954 ..... Japan (Honshu, Ky, NI, Sh); China (Fu, Gu, Si, Yu, Zh), Korea (South)  
*chitoensemie*: incorrect subsequent spelling (lapsus for *mie*)  
**minahasaense** Takaoka, 2003 ..... Indonesia (Sulawesi)  
 'A' Takaoka & Roberts, 1988 (*Simulium* sp.)  
**mongarensense** Takaoka & Somboon, 2008 ..... Bhutan

<b>morisonoi</b> Takaoka, 1973 .....	Japan (Tokara Islands)
<b>nivritiae</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>pairoti</b> Ya'cob, Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Ya'cob, Takaoka, Low & Sofian-Azirun] .....	Malaysia (Malaya)
'C' Pramual, Thajjarern, Sofian-Azirun, Ya'cob, Hadi & Takaoka, 2015 ( <i>feuerborni</i> cytoform) [ <i>feuerborni</i> : Takaoka & Davies, 1995, not Edwards]	
<b>perlucidulum</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>phami</b> Takaoka, Sofian-Azirun & Ya'cob, 2014 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>praelargum</b> Datta, 1973 .....	India (West Bengal); China (Tibet), Nepal
'III-st' Thapa, Procnier, Henry & Chhetri, 2014 (cytoform) .....	India (West Bengal)
'III-1.2' Thapa, Procnier, Henry & Chhetri, 2014 (cytoform) .....	India (West Bengal)
'IL' Thapa, Adler, Chhetri, Varma & Willie, 2017 (cytoform) .....	India (West Bengal)
<i>praetargum</i> : incorrect subsequent spelling	
<b>pumatense</b> Takaoka, Low & Pham, 2019 [ <i>in</i> Takaoka, Low, Tan, Sofian-Azirun, Chen, Lau & Pham] .....	Vietnam
<b>qiongzhouense</b> Chen, Zhang & Yang, 2003 .....	China (Hainan)
<b>rufithorax</b> Brunetti, 1911 .....	India (Maharashtra, Ka, WB)
<b>saitoi</b> Takaoka, 2000 [ <i>in</i> Takaoka & Saito] .....	Japan (Honshu)
<b>sasai</b> (Rubtsov, 1962) .....	Japan (Honshu, Ky)
'J-14' Bentinck, 1955 ( <i>Simulium</i> sp.)	
<b>senile</b> Brunetti, 1911 .....	India (Himachal Pradesh)
<b>shandongense</b> Sun & Li, 2000 .....	China (Shandong)
<i>shandongens</i> : incorrect subsequent spelling	
<b>subratai</b> Takaoka, Thapa & Henry, 2011 .....	India (West Bengal)
<b>vessabutrae</b> Takaoka & Srisuka, 2010 .....	Thailand
<b>vischarvi</b> (Chubareva, 1996) .....	Tajikistan
<b>wangxianense</b> Chen, Zhang & Bi, 2004 .....	China (Hunan)
<b>wichaii</b> Takaoka, 2010 [ <i>in</i> Takaoka & Srisuka] .....	Thailand
'A' Takaoka, 1989 ( <i>Simulium</i> sp.) .....	Burma
'sp. 2 (nr. <i>fruticosum</i> [ <i>sic</i> ])' Henry, Dey, Varma, Thapa & Procnier, 2010 ( <i>Simulium</i> sp.) .....	India (West Bengal)

#### LOUTETENSE species-group

<b>loutetense</b> Grenier & Ovazza, 1951 .....	Congo; Angola, Benin, Burkina Faso, Cameroon, Central African Republic, Democratic Republic of Congo, Equatorial Guinea (Bioko), Ghana, Guinea, Ivory Coast, Liberia, Nigeria, Sierra Leone, South Sudan, Tanzania, Togo, Zambia
'Chemka' Lewis & Raybould, 1974 (morphoform) .....	Tanzania
<i>loutetense</i> : incorrect subsequent spelling	
<b>milloti</b> Grenier & Doucet, 1949 .....	Madagascar
<b>narcaeum</b> De Meillon, 1950 .....	South Africa (KwaZulu Natal)
<i>narceum</i> : incorrect subsequent spelling	
<b>rutherfordi</b> De Meillon, 1937§ .....	South Africa (KwaZulu Natal, EC, FS, L, M, NW, WC); Democratic Republic of Congo, Lesotho, Swaziland, Tanzania, Zimbabwe, Yemen (?)
'II' Rivosecchi, Merighi & Parrinello, 1969 ( <i>Simulium</i> sp.)	
<i>rutherfordi</i> , <i>rutherfordi</i> : incorrect subsequent spellings	

#### RUFICORNE species-group

<b>akopi</b> (Chubareva & Kachvoryan, 2000)*** .....	Armenia
<i>acopi</i> , <i>akopy</i> : incorrect subsequent spellings	
<b>alatum</b> Fain & Dujardin, 1983 .....	Kenya
<b>alidae</b> Pilaka & Elouard, 1997 .....	Madagascar
<b>angustitarse</b> (Lundström, 1911) .....	Finland; Algeria, Austria, Belarus, Bosnia and Herzegovina, Britain (En, Wa), China (Yu), Croatia,
<i>melanobrachium</i> (Enderlein, 1924) (ssp.) [Estonia]	



<i>mazedonicum</i> (Baranov, 1926) [Macedonia & Serbia]	Czech Republic, Denmark, Estonia, France, Georgia,
<i>knochii</i> (Enderlein, 1929) [Germany]	Germany, Greece, Hungary, Ireland, Italy, Kyrgyzstan,
<i>flavicorne</i> (Enderlein, 1929) [Austria]	Latvia, Lithuania, Luxembourg, Macedonia, Moldova,
<i>equitarse</i> (Rubtsov, 1962) [Kyrgyzstan]	Montenegro, Morocco, Netherlands, Norway, Poland,
<i>dispinum</i> (Rubtsov & Carlsson, 1965) [Sweden]	Portugal, Romania, Russia (CR, NR, SR), Serbia,
<i>marrucinum</i> (Rivosecchi, 1966) [Italy]	Siberia (ES, WS), Slovakia, Slovenia, Spain, Sweden,
<i>celticum</i> Davies, 1966 (preocc.) [Britain (Wales)]	Switzerland, Turkey, Ukraine
<i>campriense</i> Davies, 1967 (subst. name)	
<i>brevipes</i> (Rubtsov, 1967) (ssp.) [Hungary]	
<i>hungaricum</i> (Rubtsov, 1967) (ssp.) [Hungary]	
<i>zaporozjae</i> (Pavlichenko, 1986) (ssp.) [Ukraine]	
? 'A' Bailly-Choumara & Beaucournu-Saguez, 1978 ( <i>Simulium</i> sp.)	
<i>angursitarsis</i> , <i>angustarse</i> , <i>angustitare</i> , <i>angustitars</i> , <i>angustutarsis</i> ,	
<i>engustitarse</i> : incorrect subsequent spellings	
<i>eguitarsis</i> : incorrect subsequent spelling	
<i>knocki</i> : incorrect subsequent spelling	
<b>antibrachium</b> Fain & Dujardin, 1983 .....	Kenya; Cameroon
<b>arabicum</b> Crosskey, 1982 [ <i>in</i> Crosskey & Büttiker] .....	Saudi Arabia (Asir); Ethiopia, Guinea, Kenya, Nigeria,
'I' Rivosecchi, Merighi & Parrinello, 1969 ( <i>Simulium</i> sp.)	Tanzania, Uganda, Yemen
'A' Rivosecchi & Merighi, 1970 ( <i>aureosimile</i> morphoform)	
<b>aspericorne</b> Fain, Bafort & Silberstein, 1976 .....	Kenya
<b>aureohirtum</b> Brunetti, 1911 .....	India (Assam, AP, ArP, Ha, HP, Ka, Ma, Me, Mr, Mz,
<i>geniculare</i> (Shiraki, 1935) [Taiwan]	TN, WB); Bhutan, Burma, China (Anhui, Fu, Gd, Gu,
<i>philippinense</i> Delfinado, 1962 [Philippines (Luzon)]	Hainan, HK, Macao, Si, Tibet, Yu), Guam, Indonesia
<i>tuaranense</i> Smart & Clifford, 1969 [Malaysia (Sabah)]	(Flores, Java, Kalimantan, Lombok, Maluku, Sulawesi,
'A' Lewis, 1964 ( <i>Simulium</i> sp.)	Sumatra, Sumba, Timor), Japan (Hon, Ky, NI, Sh),
<i>areohirtum</i> , <i>arureohirtum</i> , <i>aurechirtum</i> : incorrect	Malaysia (Malaya, Sabah, Sarawak), Nepal, Pakistan,
subsequent spellings	Philippines, (Bohol, Luzon, Mindanao, Negros,
	Palawan, Panay), Sri Lanka, Taiwan, Thailand, Vietnam
<b>aureosimile</b> Pomeroy, 1920 .....	Cameroon; Burundi, Equatorial Guinea (Bioko), Ivory
[ <i>nigritarse</i> : authors, not Coquillett]	Coast, Kenya, Nigeria, Togo. [Other country records in
	error or dubious, including South Sudan, as Sudan,
	(probably <i>arabicum</i> )]
<b>baforti</b> Fain & Dujardin, 1983 .....	Kenya
<b>borbonense</b> Giudicelli, 2008 .....	Réunion
<b>brachium</b> Gibbins, 1936 .....	Uganda; Congo, Democratic Republic of Congo, Kenya,
	Lesotho, South Africa (EC, NW, WC), Tanzania,
	Ethiopia (?)
<b>brevitarse</b> (Rubtsov, 1976) .....	Azerbaijan; Iran
<i>brevitrarse</i> : incorrect subsequent spelling	
<b>brunhesi</b> Pilaka & Ranaivoharindriaka, 1996 [ <i>in</i> Elouard,	
Pilaka & Ranaivoharindriaka] .....	Madagascar
<b>buckleyi</b> De Meillon, 1944 .....	Kenya; Ethiopia, Rwanda
<i>vulcani</i> Fain, 1950 [Rwanda]	
<i>buckleyi</i> : incorrect subsequent spelling	
<b>bulbiferum</b> Fain & Dujardin, 1983 .....	Rwanda; Democratic Republic of Congo
<b>bwambanum</b> Krüger, 2016 .....	Uganda
<b>candelabrum</b> Fain & Dujardin, 1983 .....	Tanzania
<b>chovdica</b> (Yankovsky, 1996) (subst. name) .....	Mongolia
<i>tenuitarsus</i> (Rubtsov, 1969) (preocc.)	
<b>crassicaulum</b> (Rubtsov, 1955) .....	Uzbekistan; Iran, Russia (Caucasus)
<i>crassicaulis</i> : incorrect subsequent spelling	
<b>delizhanense</b> (Rubtsov, 1955) .....	Armenia; Azerbaijan, Georgia
<i>deliganense</i> , <i>delizanensis</i> : incorrect subsequent spellings	
<b>duboisii</b> Fain, 1950 .....	Rwanda; Democratic Republic of Congo, Kenya,
	Tanzania
<b>ekomei</b> Lewis & Disney, 1972 .....	Cameroon
<b>falcoe</b> (Shiraki, 1935) .....	Taiwan. ['Japan' error]

<i>falconense</i> : incorrect subsequent spelling	
<b>flavinotatum</b> Fain & Dujardin, 1983 .....	Rwanda; Tanzania
<b>flavipes</b> Austen, 1921 .....	Israel/Jordan
<i>jerichoense</i> Smart, 1944 (unnecessary subst. name)	
<b>fuscicorne</b> Fain, 1950 .....	Rwanda
<b>fuscipes</b> (Fries, 1824)† .....	Sweden; Hungary, Norway, Russia (KM)
<b>glatthaari</b> Takaoka & Davies, 1995 .....	Indonesia (Sumatra)
<b>ibleum</b> (Rivosecchi, 1966) .....	Italy (Sicily, mainland); Algeria, Cyprus, Greece (Crete),
? ‘B’ Bailly-Choumara & Beaucournu-Saguez, 1978 ( <i>Simulium</i> sp.)	Lebanon, Libya, Morocco, Tunisia, Turkey, Spain (?).
[ <i>latipes</i> : Zavattari, 1930, 1934, not Meigen]	
<b>indoceanicum</b> Giudicelli, 2008 .....	Réunion
<b>itwariense</b> Krüger, 2016 .....	Uganda
<b>katangae</b> Fain, 1951 .....	Democratic Republic of Congo; Cameroon, South Africa (EC, G, KZN), Tanzania
<b>karavalliense</b> Anbalagan, Rekha, Vijayan, Balachandran, Dinakaran & Krishnan, 2020 .....	India (Tamil Nadu)
<b>kugitangi</b> (Yankovsky & Shinkovsky, 1992) .....	Turkmenistan
<b>longipes</b> (Rubtsov, 1956) .....	Kazakhstan
<b>loveridgei</b> Crosskey, 1965 .....	Saint Helena Island
<b>lundstromi</b> (Enderlein, 1921 [April]) (available) .....	Britain (England); Algeria, Austria, Belarus, Belgium,
<i>kerteszi</i> (Enderlein, 1922) [Hungary]	Bulgaria, China (Be), Croatia, Czech Republic,
<i>latigonium</i> (Rubtsov, 1956) [Russia (St Petersburg)]	Denmark, Estonia, Finland, France, Germany, Hungary,
<i>luttæ</i> (Usova & Reva, 2008) (unav., <i>nomen nudum</i> )	Ireland, Italy, Kazakhstan, Latvia, Lebanon,
<i>lundstrami</i> , <i>lundstroemi</i> , <i>lundstromii</i> , <i>lundstromi</i> , <i>undstromi</i> :	Lithuania, Moldova, Morocco, Netherlands, Norway,
incorrect subsequent spellings	Poland, Portugal, Russia (CR, NR, SR), Serbia,
<i>latigorium</i> , <i>litigonium</i> : incorrect subsequent spelling	Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine
[ <i>angustitarse</i> (part): authors (pre-1974), not Lundström]	
<b>metecontae</b> Elouard & Pilaka, 1996 [ <i>in</i> Elouard, Pilaka & Ranaivoharindriaka] .....	Madagascar
<b>montshadskii</b> (Rubtsov, 1956) .....	Tajikistan; Kazakhstan, Uzbekistan
<i>montshadskli</i> : incorrect subsequent spelling	
<b>neornatipes</b> Dumbleton, 1969 (complex) .....	New Caledonia
‘1’ Bedo, 1977 (cytoform)	
‘2’ Bedo, 1977 (cytoform)	
‘3’ Bedo, 1984 (cytoform)	
[ <i>ornatipes</i> : Mackerras & Mackerras, 1955, not Skuse]	
<b>nigritarse</b> Coquillett, 1901 [1902] (complex) .....	South Africa (Western Cape, EC, FS, G, KZN, L, M, NC, NW); Angola, Cameroon, Democratic Republic of Congo, Guinea, Kenya, Lesotho, Mozambique, Nigeria, Swaziland, Tanzania, Zambia, Zimbabwe, Eritrea (?)
<i>caffricum</i> (Enderlein, 1935) [South Africa (Western Cape)]	
<i>caffrica</i> : incorrect subsequent spelling	
<i>nigritarisis</i> : incorrect subsequent spelling	
[ <i>latipes</i> : Austen, 1909, not Meigen]	
[ <i>aureosimile</i> : authors, not Pomeroy]	
<b>ningxiaum</b> Yang, Wang & Chen, 2008 .....	China (Ningxia Hui)
<i>ningxiaense</i> : incorrect subsequent spelling	
<b>norfolkense</b> Dumbleton, 1969 .....	Norfolk Island; Australia (NSW, Qld, SA, Vic, WA)
‘A1’ Bedo, 1979 ( <i>ornatipes</i> cytoform [= ‘A’ Bedo, 1977, part])	
<b>nyanzense</b> Fain & Dujardin, 1983 .....	Kenya
<b>oresti</b> (Vorobets, 1984) .....	Siberia (Yakutskaya ES)
<b>ornatipes</b> Skuse, 1890 (complex) .....	Australia (NSW, Qld, SA, Tas, Vic, WA); Indonesia (Irian Jaya), New Guinea (PNG mainland)
<i>biroi</i> (Enderlein, 1936) [Australia (New South Wales)]	
‘B’ Bedo, 1977 (cytoform) .....	Australia (NSW, Qld, Vic, WA)
‘A2’ Bedo, 1979 (cytoform [= ‘A’ Bedo, 1977, part]) .....	Australia (NSW, Qld, SA, Tas, Vic)
<b>perforatum</b> Fain & Dujardin, 1983 .....	Burundi; Democratic Republic of Congo, Rwanda, Uganda
<b>philipponi</b> Pilaka & Elouard, 1997 .....	Madagascar
<b>pinhaoi</b> Santos Grácio, 1985 .....	Portugal
<b>politum</b> Crosskey, [1977] [1976] .....	Saint Helena Island
<b>raybouldi</b> Fain & Dujardin, 1983 .....	Tanzania

<b>rubescens</b> Fain & Dujardin, 1983 .....	Rwanda; Democratic Republic of Congo
<b>ruficorne</b> Macquart, 1838 (complex) .....	Réunion; Algeria, Angola, Balearic Islands (Majorca),
<i>beckeri</i> Roubaud, 1906 [Algeria]	Benin, Burkina Faso, Cameroon, Canary
<i>annulipes</i> Becker, 1908 [Canary Islands (Tenerife)]	Islands (Fuerteventura, Gomera, Gran Canaria,
<i>divergens</i> Pomeroy, 1922 [Nigeria]	La Palma, Tenerife), Cape Verde Islands, Central
<i>diversipes</i> Edwards, 1923 [Mauritius (Rodrigues Island)]	African Republic, Chad, Comoro Islands (Anjouan),
? 'M4' Grenier & Doucet, 1950 ( <i>Simulium</i> sp.)	Congo, Democratic Republic of Congo, Egypt,
'A-J' Crosskey & Büttiker, 1982 (morphoforms)	Eritrea, Ethiopia, Ghana, Guinea, Guinea-Bissau,
<i>bekkeri</i> : incorrect subsequent spelling	Iraq, Israel, Ivory Coast, Jordan, Kenya, Lebanon,
	Liberia, Libya, Madagascar, Madeira (incl. Porto
	Santo), Malawi, Mali, Malta, Mauritius (incl. Rodrigues
	Island), Morocco, Mozambique, Namibia, Niger,
	Nigeria, Oman, Portugal, Saudi Arabia, Senegal, Sierra
	Leone, Somalia, South Africa (EC, FS, G, KZN, L, M,
	NC, WC), South Sudan, Spain, Sudan, Syria, Tanzania,
	Togo, Tunisia, Uganda, Yemen (incl. Socotra),
	Zambia, Zimbabwe. ['Java' error]
'A1' Cherairia & Adler, 2018 (cytoform) .....	Algeria, Balearic Islands (Majorca), Egypt
'A2' Cherairia & Adler, 2018 (cytoform) .....	Algeria, Canary Islands (Fuerteventura, Gomera,
	La Palma), Madeira
'A' Cherairia, Adler & Samraoui, 2014 (morphoform)	
'B' Cherairia, Adler & Samraoui, 2014 (morphoform)	
'B' Cherairia & Adler, 2018 (cytoform) .....	Burkina Faso, Ivory Coast, Mali
'C' Cherairia & Adler, 2018 (cytoform) .....	Canary Islands (Tenerife)
'D' Cherairia & Adler, 2018 (cytoform) .....	Cape Verde Islands (Santiago)
<i>ruficorne</i> , <i>rufecorne</i> : incorrect subsequent spellings	
<i>rufipes</i> : incorrect subsequent spelling (lapsus)	
[ <i>lineatum</i> : Bezzi, 1921 (part), not Meigen]	
[ <i>nigritarsis</i> : De Meillon, 1930, not Coquillett]	
<b>sacculiferum</b> Fain & Dujardin, 1983 .....	Rwanda; Burundi
<b>simplex</b> Gibbins, 1936 .....	Uganda; Democratic Republic of Congo, Kenya,
<i>elgonicum</i> Séguy, 1938 [Kenya]	South Africa (?), Zimbabwe (?)
<b>sirimonense</b> Fain & Dujardin, 1983 .....	Kenya; Uganda
<b>speculiventre</b> Enderlein, 1914 .....	Seychelles (Mahé, Praslin, Silhouette)
<i>speculariventris</i> : incorrect subsequent spelling	
<b>starmuhlneri</b> Grenier & Grjebine, 1964 [1963] .....	Madagascar (incl. Nosy Bé Island)
'M3' Grenier & Doucet, 1950 ( <i>Simulium</i> sp.)	
<b>subgriseum</b> Rubtsov, 1940 .....	Afghanistan [neotype]; China (Be, Li), Kazakhstan,
	Mongolia, Tajikistan, Turkmenistan
<b>tolongoinae</b> Grenier & Brunhes, 1972 .....	Madagascar
? 'M5' Grenier & Doucet, 1950 ( <i>Simulium</i> sp.)	
<b>triplex</b> Giudicelli, 2008 .....	Réunion; Comoro Islands (Anjouan, Mohéli), Mauritius
<b>vitile</b> (Rubtsov, 1955) .....	Armenia; Azerbaijan, Georgia, Uzbekistan
<b>volhynicum</b> (Usova & Sukhomlin, 1990) .....	Ukraine
<i>volhnica</i> : incorrect original spelling (figure 2 legend)	
<i>volinica</i> : incorrect subsequent spelling	
<b>wayani</b> Takaoka & Chen, 2018 [ <i>in</i> Takaoka, Sofian-Azirun	
Chen, Lau, Halim, Low & Suana] .....	Indonesia (Timor)
'B' Rivosecchi & Merighi, 1970 ( <i>aureosimile</i> morphoform) .....	Yemen
'1' Gomard, Cornuault, Licciardi, Lagadec, Belqat, Dsouli,	
Mavingui & Tortosa, 2018 ( <i>Simulium</i> sp. molecular form) .....	Seychelles (Mahé)

#### VERNUM species-group

<b>aberrans</b> Delfinado, 1969 .....	Philippines (Luzon)
<i>aberraus</i> : incorrect subsequent spelling	
<b>acmeria</b> (Ono, 1978) .....	Japan (Hokkaido)
<i>acmerium</i> : incorrect subsequent spelling	

<b>aestivum</b> Davies, Peterson & Wood, 1962 [1961] .....	Canada (Ontario, Lab, PEI, Que); USA (NH)
‘Labrador’ Brockhouse, 1984 (thesis) ( <i>vernum</i> cytoform)	
<b>amosovi</b> (Vorobets, 1987) .....	Siberia (Yakutskaya ES)
<b>amurense</b> (Rubtsov, 1956) .....	Siberia (Amurskaya FE, Sakhalin FE)
<b>angustatum</b> (Rubtsov, 1956) .....	Ukraine (Crimea); China (Li), Czech Republic, Poland,
<i>angustatum</i> , <i>angutratum</i> , <i>anustatum</i> : incorrect subsequent spellings	Romania, Russia (SR), Serbia, Slovakia
<b>angusticorne</b> (Rubtsov, 1956) .....	Siberia (Maritime FE)
<b>arminii</b> Seitz & Adler, 2017 .....	Germany; Austria
[ <i>carthusiense</i> : Seitz & Adler, 2009, not Grenier & Dorier]	
<b>armoricanum</b> Doby & David, 1961 .....	France; Britain (En, Sc, Wa), Ireland, Portugal, Spain. [?
<i>amroricanum</i> : incorrect subsequent spelling	= <i>florae</i> ]
<b>artum</b> Sato, Takaoka & Saito, 2005 .....	Japan (Honshu, Hok)
‘1’ Orii, Uemoto & Onishi, 1969 ( <i>Eusimulium</i> sp.)	
‘Y’ Saito & Kanayama, 1988 / Saito <i>et al.</i> , 1995 ( <i>Simulium</i> sp.)	
<b>australe</b> (Rubtsov, 1955) .....	Armenia; Azerbaijan, Georgia, Russia (SR)
<b>babai</b> Takaoka & Aoki, 2007 .....	Japan (Hokkaido)
<b>bavaricum</b> Seitz & Adler, 2009 .....	Germany; Austria, Italy
‘1’ Seitz, 2004 ( <i>Simulium</i> sp.)	
‘cf. <i>dolomitense</i> ’ Seitz, 2006 ( <i>Simulium</i> )	
[ <i>carpathicum</i> : Rivosecchi, 1971, 1978 (part), not Knoz]	
[ <i>dolomitense</i> : Rivosecchi, 1971, 1978 (part)]	
<b>beltukovae</b> (Rubtsov, 1956)† .....	Russia (Permskaya CR, NR, SR); Andora, Austria,
<i>erectum</i> (Rubtsov, 1959) [Russia (Permskaya CR)]	Czech Republic, Finland, France, Germany, Italy,
<i>minutum</i> (Rubtsov, 1959) (preocc.)	Norway, Poland, Serbia, Siberia (ES, WS), Slovakia,
<i>carpathicum</i> (Knoz, 1961) [Czech Republic]	Slovenia, Sweden, Ukraine, Kazakhstan (?)
<i>minuticorpus</i> (Yankovsky, 1996) (subst. name,	
for <i>minutum</i> ) [Russia (St Petersburg CR)]	
<i>beltjukovae</i> , <i>beltucovae</i> , <i>beltukove</i> , <i>belyukovae</i> : incorrect	
subsequent spellings	
<i>carphaticum</i> : incorrect original spelling	
<i>carpatica</i> , <i>carpacticum</i> , <i>carpaticum</i> : incorrect	
subsequent spellings	
<b>berchtesgadense</b> Seitz, Adler & Forster, 2015 .....	Germany
<b>bertrandi</b> Grenier & Dorier, 1959 .....	France (incl. Corsica); Austria, Bosnia and Herzegovina,
? <i>angustifrons</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	Bulgaria, Czech Republic, Germany, Italy, Montenegro,
? <i>angustifrons</i> (Enderlein, 1921 [June, <i>aug-</i> misprint]) [France]	Poland, Russia (CR, SR), Slovakia, Spain, Switzerland,
‘IV’ Grenier, 1953 ( <i>Simulium</i> sp.)	Ukraine
<i>bertrandi</i> : incorrect subsequent spelling	
<b>bicorne</b> Dorogostaisky, Rubtsov & Vlasenko, 1935 .....	Siberia (Irkutskaya ES, FE, WS); Canada (NWT,
<i>paracorniferum</i> (Yankovsky, 1979) [Siberia (Khabarovsk)]	Yukon), China (He, IM, Jilin), Finland, Latvia,
<i>corniferum</i> (Yankovsky, 1979) [Russia (Murmansk)]	Mongolia, Norway, Poland, Russia (KM, NR), Sweden,
? ‘1’ Jenkins, 1948 ( <i>Eusimulium</i> sp.)	USA (Alaska), Pakistan (?)
? ‘Alaska #23’ Brockhouse, 1984 (thesis) ( <i>vernum</i> cytoform)	
<i>bicorn</i> : incorrect subsequent spelling	
<i>comifera</i> : incorrect subsequent spelling	
<b>boldstemta</b> (Ono, 1978) .....	Japan (Hokkaido)
<i>boldstemtum</i> : incorrect subsequent spelling	
<b>bonninense</b> (Shiraki, 1935) .....	Japan (Bonin Islands = Ogasawara Islands)
<i>bonninensi</i> : incorrect subsequent spelling	
<b>brevidens</b> (Rubtsov, 1956) .....	Ukraine (Crimea); Algeria, Andorra, Austria, Bosnia and
<i>brewidens</i> : incorrect subsequent spelling	Herzegovina, Czech Republic, France, Germany, Italy,
[ <i>angustatum</i> : Rubtsov, 1961]	Lithuania, Montenegro, Morocco, Poland, Serbia,
	Slovakia, Spain, Turkey
<b>bumthangense</b> Takaoka & Somboon, 2008 .....	Bhutan
<b>burgeri</b> Adler, Currie & Wood, 2004 .....	Canada (New Brunswick, Man, Ont, Sask); USA (NH)
‘near <i>fionae</i> ’ Adler & Mason, 1997 / Currie, 1997 ( <i>Simulium</i> sp.)	
<b>burmense</b> Takaoka, 1989 .....	Burma
<b>cangshanense</b> (Xue, 1993) .....	China (Yunnan)

<i>cangshanease</i> : incorrect subsequent spelling	
<b>carbunculum</b> Adler, Currie & Wood, 2004 .....	USA (California, Ari, Col, Idaho, Nev, NM, Utah, Wyo);
<i>attenuatum</i> Peterson, 1958 (thesis) (unav., <i>nomen nudum</i> )	Canada (BC, Sask), Mexico (Du)
‘A’ Peterson, 1960 ( <i>Simulium</i> sp.)	
‘Cypress’ Dunbar, 1962 (thesis) ( <i>pugetense</i> cytoform)	
‘Cypress Hills’ Hunter & Connolly, 1986 ( <i>pugetense</i> cytoform)	
‘near Cypress Hills’ McCreddie, Adler & Burger, 1997 ( <i>pugetense</i> cytoform)	
[ <i>pugetense</i> (part): authors (Mexico, Saskatchewan), not Dyar & Shannon]	
<b>carthusiense</b> Grenier & Dorier, 1959 .....	France (incl. Corsica); Andorra, Austria, Czech Republic,
‘I’ Grenier, 1949 ( <i>Simulium</i> sp., attrib. Dorier & Freychet, 1945)	Germany, Italy, Morocco, Poland, Slovakia, Spain,
<i>carthusiense</i> , <i>carthusience</i> , <i>cartusiense</i> : incorrect subsequent spellings	Switzerland, Turkey, Ukraine
<b>caudisclerum</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya). [‘Thailand’ error]
<i>candiselerum</i> , <i>caudiaclerum</i> : incorrect subsequent spellings	
<b>chejuense</b> Takaoka, 1974 .....	Korea (Cheju Islands)
<i>chejuensen</i> : incorrect subsequent spelling	
<b>cheni</b> (Xue, 1993) .....	China (Yunnan)
<b>chenzhouense</b> Chen, Zhang & Bi, 2004 .....	China (Hunan)
<b>cherraense</b> Sun, 1994 .....	China (Liaoning)
<i>cherraensis</i> : incorrect original spelling	
<b>chodakovi</b> (Panchenko, 1998) .....	Ukraine (Crimea)
<b>chomthongense</b> Takaoka, Srisuka & Choochote, 2012 [ <i>in</i> Takaoka, Srisuka, Saeung, Otsuka & Choochote] (complex) .....	Thailand
‘A’ Takaoka & Suzuki, 1984 ( <i>Simulium</i> sp.)	
‘A’ Adler, Srisuka & Saeung, 2020 (cytoform)	
‘B’ Adler, Srisuka & Saeung, 2020 (cytoform)	
[ <i>caudisclerum</i> (part): authors (Thailand), not Takaoka & Davies]	
<b>chomustachi</b> (Vorobets, 1977) .....	Siberia (Yakutskaya ES)
<b>chubarevae</b> (Kachvoryan & Terteryan, 1981) .....	Armenia
<b>codreanui</b> (Sherban, 1958) .....	Romania; Austria, Bosnia and Herzegovina, Bulgaria,
? <i>laticax</i> (Enderlein, 1936) (preocc.) [Romania]	Czech Republic, Poland, Serbia, Slovakia, Turkey,
? <i>orsovae</i> Smart, 1944 (subst. name, for <i>laticax</i> )	Ukraine
<i>codreanni</i> : incorrect subsequent spellings	
<b>conicum</b> Adler, Currie & Wood, 2004 .....	USA (California, Idaho, Ore, Was); Canada (BC)
[ <i>pugetense</i> : Courtney, 1986, not Dyar & Shannon]	
<b>costatum</b> Friederichs, 1920 .....	Germany; Algeria, Austria, Belgium, Bosnia and
<i>incornutum</i> (Enderlein, 1929) [Germany]	Herzegovina, Britain (En, Sc), Bulgaria, Croatia, Czech
<i>barbativentre</i> (Enderlein, 1929) [Germany]	Republic, Denmark, France, Hungary, Italy, Latvia,
<i>coctata</i> , <i>costalum</i> , <i>coststum</i> : incorrect subsequent spellings	Luxembourg, Moldova, Montenegro, Morocco,
	Netherlands, Norway, Poland, Romania, Russia (SR),
	Slovakia, Slovenia, Spain, Sweden, Switzerland,
	Turkey, Ukraine. [‘Argentina’ error, Edwards, 1931]
<b>craigi</b> Adler & Currie, 1986 .....	Canada (Alberta, BC, Man, NB, Nfld, Nun, NWT, Ont,
‘A’ Rothfels & Brockhouse, 1983 [ <i>in</i> Okaeme, thesis] ( <i>vernum</i> cytoform)	PEI, Que, Sask); USA (Alaska, Ari, Cal, Col, Maine,
‘Gothic’ Brockhouse, 1985 ( <i>vernum</i> cytoform) .....	Mic, NH, NM, NY, Pen, Utah, Wyo)
? ‘Type 4’ Brockhouse, 1989 [ <i>in</i> Brockhouse, Bass, Feraday & Strauss] (cytoform) [uncharacterized] .....	USA (Col)
‘X’ Hunter, 1987 (thesis) ( <i>vernum</i> cytoform)	
‘AF’ Hunter, 2002 (cytoform) .....	‘North America’ [no locality]
‘Cypress Hills’ Brockhouse, 1985 ( <i>vernum</i> cytoform)	
‘Nipigon’ Brockhouse, 1985 ( <i>vernum</i> cytoform)	Canada (Man, Ont, Sask)
‘ACF/BCF’ Hunter, 2002 (cytoform) .....	USA (NH)
‘CC’ Hunter, 2002 (cytoform) .....	USA (Pen)
[see Adler, Currie & Wood, 2004 for misidentifications]	
<b>crenobium</b> (Knoz, 1961) .....	Czech Republic; Austria, Bosnia and Herzegovina,

<b>croxtoni</b> Nicholson & Mickel, 1950 .....	Germany, Hungary, Poland, Romania, Serbia, Slovakia, Slovenia, Switzerland, Ukraine. ['Italy' error]
'E' Shewell, 1957 ( <i>Simulium</i> sp.) .....	USA (Minnesota, Maine, Mas, Mic, NH, NJ, Pen, Wis, Wyo); Canada (Alb, BC, Lab, Man, NB, Nfld, NWT, Ont, PEI, Sask, Yukon)
<b>cryophilum</b> (Rubtsov, 1959) (complex)* .....	Russia (St Petersburg CR, NR, SR); Algeria, Andorra, Armenia, Austria, Balearic Islands (Majorca), Belgium, Bosnia and Herzegovina, Britain (En, Sc, Wa), Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France (incl. Corsica), Germany, Greece (incl. Chios, Crete, Naxos, Lésbos), Ireland, Italy (incl. Sardinia, Sicily), Latvia, Lebanon, Luxembourg, Montenegro, Morocco, Netherlands, Norway, Poland, Portugal, Scotland, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, Ukraine
<i>brevicaulis</i> Dorier & Grenier, 1961 (unav., form post-1960)	
<i>biancoi</i> (Rubtsov, 1964) [Italy]	
<i>couverti</i> (Rubtsov, 1964) [Italy]	
<i>vidanoi</i> (Rubtsov, 1964) [Italy]	
<i>tricrenum</i> (Rubtsov & Carlsson, 1965) [Sweden]	
<i>brevicaule</i> Davies (L.), 1966 (availability conferred) [France]	
<i>longibranchiale</i> Raastad, Usova & Kuusela, 2010 (unav., <i>nomen nudum</i> , attrib. Rubtsov)†	
'1' Kunze, 1953 ( <i>Simulium</i> species)	
'2' Kunze, 1953 ( <i>Simulium</i> species)	
'A' Hunter, 1987 (cytoform) .....	Denmark, Germany, Spain, Sweden
'B2' Hunter, 1987 (cytoform) .....	Germany, Sweden
'Atypical' Bass, 1998 (morphoform) .....	Britain (En), Ireland
'Typical' Bass, 1998 (morphoform) .....	Britain (En), Ireland
'Crete 1' Crosskey & Malicky, 2001 (morphoform) .....	Greece (Crete)
'Crete 2' Crosskey & Malicky, 2001 (morphoform) .....	Greece (Crete)
<i>cryophil</i> , <i>cryophylum</i> , <i>cyophilum</i> : incorrect subsequent spellings	
[ <i>pusillum</i> : Séguy, 1930 / Grenier, 1953, not Fries]	
[ <i>latipes</i> : Kachvoryan & Chubareva, 1974, not Meigen]	
<b>curvans</b> (Rubtsov & Carlsson, 1965) .....	Siberia (Irkutskaya ES, FE, WS); Finland, Latvia, Mongolia, Norway, Romania, Russia (CR, KM), Sweden
[ <i>pungens</i> : Rubtsov, 1956, not Meigen]	
<b>dendrofilum</b> (Patrusheva, 1962) .....	Siberia (Tomskaya WS, ES, FE); Belarus, Canada (Nun), Finland, Sweden, USA (Alaska)
'near <i>croxtoni</i> ' Smith, 1970 (thesis) ( <i>Simulium</i> sp.)	
<i>dendrofilium</i> : incorrect subsequent spelling	
<b>dentatura</b> (Vorobets, 1987) .....	Siberia (Yakutskaya ES)
<b>dissimilum</b> Chen & Lian, 2016 [ <i>in</i> Chen] .....	China (Shanxi)
<b>djafarovi</b> (Rubtsov, 1962) (subst. name) .....	Azerbaijan; Armenia, Georgia, Kazakhstan, Romania, Russia (SR), Turkey
<i>subcostatum</i> (Djafarov, 1953) (preocc.)	Italy
<b>dolomitense</b> (Rivosecchi, 1971) .....	Britain (England, Sc); Belgium, Ireland
<b>dunfellenae</b> Davies, 1966 .....	Azerbaijan; Georgia, Russia (Caucasus)
<b>elatum</b> (Rubtsov, 1955)† .....	USA (New Hampshire, Mic, NJ, Pen); Canada (Lab, NB, NWT, Ont, Sask)
<b>fionae</b> Adler, 1990 .....	
'A-type' Brockhouse, 1984 (thesis) ( <i>vernum</i> cytoform)	
'Eastmain' Brockhouse, 1985 ( <i>vernum</i> cytoform)	
'near <i>furculatum/croxtoni</i> Adler & Kim, 1986 ( <i>Simulium</i> sp.)	
'near <i>croxtoni-furculatum</i> ' Hunter, 1987 (thesis) ( <i>Simulium</i> sp.)	
[ <i>furculatum</i> : Adler, 1983 (thesis), not Shewell]	
<b>florae</b> (Djafarov, 1954) .....	Azerbaijan; Georgia, Romania, Russia (Caucasus), Turkey
<b>fluviatile</b> Radzivilovskaya, 1948 .....	Siberia (Maritime FE); China (Si), Romania (?)
<b>fontinale</b> Radzivilovskaya, 1948 .....	Siberia (Maritime FE incl. Sakhalin); Canada (Alb, BC, NWT, Yukon), Finland, Japan (Hon), Mongolia, USA (Alaska)
<i>decolletum</i> Adler & Currie, 1986 [Canada (Alberta)]	
'X' Choate, 1984 (thesis) ( <i>Eusimulium</i> sp.)	
'Yukon #9' Brockhouse, 1984 (thesis) ( <i>vernum</i> cytoform)	
'Yukon' Brockhouse, 1985 ( <i>vernum</i> cytoform)	
[ <i>longipile</i> : Rubtsov, 1956 (Lake Baikal form), not Radzivilovskaya]	
[ <i>pugetense</i> (part): Palearctic authors, not Dyar & Shannon]	
[ <i>tschukotensis</i> : Rubtsov, 1971 (male paratype)]	
<b>fontium</b> (Rubtsov, 1955) .....	Russia (Caucasus); Armenia, Azerbaijan, Georgia, Ukraine. [? = <i>costatum</i> ]
<b>fucense</b> (Rivosecchi, 1962) .....	Italy

<i>funcensis</i> : incorrect subsequent spelling	
<b>gandakiense</b> Adler, Takaoka, and Ruiz-Arrondo, 2020 .....	Nepal
<b>garniense</b> (Rubtsov, 1955) .....	Armenia
<b>gejgelense</b> (Djafarov, 1954) .....	Azerbaijan; China (Si), Georgia, Russia (Caucasus)
<i>geigelenais</i> , <i>geigelense</i> : incorrect subsequent spellings	
<b>gomphocorne</b> (Rubtsov, 1964) .....	Russia (Caucasus)
<b>gouldingi</b> Stone, 1952 .....	USA (Pennsylvania, Ark, Del, Ken, Maine, Mas, Mic, NC, NH, NJ, NY, Vir, Wis, WV); Canada (Nfld, Ont, Que)
‘1’ DeFoliart, 1951 (thesis) ( <i>Simulium</i> sp.)	
‘Sp. 27’ Jamnback, 1951 (thesis)	
[ <i>impar</i> (part): Carle, 2011 [2010], not Davies, Peterson & Wood]	
<b>gracile</b> Datta, 1973 .....	India (West Bengal); China (Tibet), Nepal
<i>graciliss</i> : incorrect subsequent spelling	
<b>hasekei</b> Seitz, Adler & Remschak, 2021 .....	Austria
<b>henanense</b> Wen, Wei & Chen, 2007 [December] .....	China (Henan)
<i>henanense</i> Wen, Wei & Chen, 2007 [August] (unav. under Code Article 16.4.1; no type)	
<b>ibarakiense</b> Takaoka & Saito, 2007 .....	Japan (Honshu)
<b>ichnusae</b> Rivosecchi & Contini, 1994 (subst. name) .....	Italy (Sardinia)
<i>rivosecchii</i> (Contini, 1965) (preocc.)	
<i>rivosecchi</i> : incorrect subsequent spelling	
<b>impar</b> Davies, Peterson & Wood, 1962 [1961] .....	Canada (Ontario, Que); USA (Ark, Geo, Ken, Maine, NC, NJ, Ohio, Pen, SC, Ten, Vir, WV)
<b>immaculatum</b> Kim, 2013 .....	Korea (South)
<b>itelmenica</b> (Chubareva & Yankovsky, 2006) .....	Siberia (Kamchatka FE)
<b>jilinense</b> Chen & Cao, 1983 .....	China (Jilin, Li)
<b>juxtacrenobium</b> Bass & Brockhouse, 1990 .....	Britain (England); Finland, Ireland, Sweden, Netherlands (?)
<i>juxtacrenobium</i> Brockhouse, Bass, Feraday & Straus, 1989 (unav., ICZN Opinion 1683)	
<b>karajimae</b> (Panchenko, 2003) .....	Ukraine (Crimea)
<b>karzhantavicum</b> (Rubtsov, 1956) .....	Kazakhstan; Turkmenistan, Uzbekistan (?)
<i>karzhantacum</i> : incorrect subsequent spelling	
<b>keiseri</b> (Rubtsov, 1955) .....	Kyrgyzstan; Azerbaijan (Nakhichevan), Kazakhstan, Siberia (ES, WS), Uzbekistan
<b>khunklangense</b> Takaoka & Srisuka 2013 [ <i>in</i> Takaoka, Srisuka, Saeung, Otsuka & Choochote] .....	Thailand
<b>koshikiense</b> Takaoka, 1976 .....	Japan (Nansei Islands)
<b>kugartsuense</b> (Rubtsov, 1956) .....	Kyrgyzstan
<i>kugartsuonse</i> : incorrect subsequent spelling	
<b>kurtaki</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya)
<b>kuznetzovi</b> Rubtsov, 1940 .....	Russia (Murmansk KM)
<i>kusnetzovi</i> : incorrect subsequent spelling	
<b>laichauense</b> Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya’cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>larvipilosum</b> Okazawa, 1984 .....	Japan (Hokkaido)
<b>latifile</b> (Rubtsov, 1956) .....	Siberia (Maritime FE); China (Li)
<i>litifile</i> : incorrect subsequent spelling	
[ <i>longipile</i> : Radzivilovskaya, 1948 (part)]	
<b>lekhaniense</b> Takaoka & Shrestha, 2010 .....	Nepal
<b>letense</b> Takaoka & Shrestha, 2010 .....	Nepal
<b>lidiae</b> (Semushin & Usova, 1983) .....	Ukraine
<b>lilotense</b> (Rubtsov, 1971) .....	Siberia (Irkutskaya ES)
<b>loerchae</b> Adler, 1987 .....	USA (South Carolina, Ala, Ark, Flo, Geo, Misp, NC, Pen, Ten)
‘1’ Pinkovsky, 1976 (thesis) / Pinkovsky & Butler, 1978 ( <i>Simulium</i> sp.)	
‘new species’ Hunter, 1987 (thesis) ( <i>Simulium</i> )	
<b>longipile</b> Radzivilovskaya, 1948* .....	Siberia (Maritime FE incl. Kamchatka, Irkutskaya ES); China (He)
<i>lingipile</i> : incorrect subsequent spelling	
[ <i>pugetense</i> (part): Palearctic authors, not Dyar & Shannon]	

<b>longtanstum</b> Ren, An & Kang, 1998 .....	China (Shandong)
<b>ludingense</b> Chen, Zhang & Huang, 2005 .....	China (Sichuan)
<b>lupповae</b> (Rubtsov, 1956) .....	Tajikistan; Siberia (ES, FE, WS)
<i>lippowae</i> : incorrect subsequent spelling	
<b>magnacentrum</b> Adler, Takaoka, and Ruiz-Arrondo, 2020 .....	Nepal
<b>marsicanum</b> (Rivosecchi, 1962) .....	Italy (incl. Sicily)
<b>medianum</b> Chen & Jiang, 2016 [ <i>in</i> Chen] .....	China (Gansu)
<b>merritti</b> Adler, Currie & Wood, 2004 .....	USA (Utah)
<b>modicum</b> Adler, Currie & Wood, 2004 .....	Canada (Ontario, Alb, BC, Que, Yukon); USA
‘IL-st’ Choate, 1984 (thesis) ( <i>pugetense</i> cytoform)	(California, Alaska, Idaho, Mic, Mon, Was, Wyo)
‘A’ Hunter & Connolly, 1986 ( <i>pugetense</i> cytoform)	
[ <i>pugetense</i> (part): authors (Michigan, Ontario), not Dyar & Shannon]	
<b>moultoni</b> Adler, Currie & Wood, 2004 .....	USA (New Hampshire); Canada (PEI, Que incl.
‘C’ Hunter & Connolly, 1986 ( <i>pugetense</i> cytoform)	Magdalen Islands)
<b>multidentatum</b> (Bodrova, 1988) [ <i>in</i> Bodrova & Luk’yanchuk] .....	Siberia (Sakhalin FE)
<b>murvanidzei</b> (Rubtsov, 1955) .....	Georgia; Armenia, Russia (Caucasus)
<b>naturale</b> Davies, 1966 .....	Britain (England, Sc, Wa); Denmark, Estonia, Ireland,
	Lithuania, Spain, Germany (?), Norway (?)
‘Dorset IIS-2+3’ Brockhouse, 1985 ( <i>vernum</i> cytoform) .....	Britain (En)
‘Denmark’ Brockhouse, 1991 (thesis) (cytoform) .....	Denmark
<b>novigracile</b> Deng, Zhang, Xue & Chen, 1996 .....	China (Tibet, Hubei)
<b>oligotuberculatum</b> (Knoz, 1965) .....	Slovakia; Andorra, Austria, Czech Republic, France,
<i>oligotuberculatum</i> : incorrect subsequent spelling	Germany, Italy, Poland, Spain
<b>ono</b> Sato & Takaoka, 2004 [ <i>in</i> Sato, Takaoka & Fukuda]	
(unav. primary homonym and invalid	
under <i>Code Article</i> 16.4.1; no type) .....	Japan (Hokkaido)
[ <i>kono</i> : Ono, 1975, 1979, not Takahasi]	
<b>pathrushevae</b> (Boldarueva, 1979) .....	Siberia (Buryatskaya ES)
<i>pathrusheva</i> , <i>patrushevae</i> : incorrect subsequent spellings	
<b>planipuparium</b> Rubtsov, 1947 .....	Tajikistan; Kazakhstan, Pakistan
<b>pugetense</b> (Dyar & Shannon, 1927) .....	USA (Washington, Alaska, Cal, Ore); Canada (BC incl.
‘IL-1’ Choate, 1984 (thesis) (cytoform)	Queen Charlotte Islands). [‘China’, ‘Mexico’,
	‘Mongolia’, ‘Russia’, ‘Siberia’ errors]
‘B’ Hunter & Connolly, 1986 (cytoform) .....	Canada (BC), USA (Alaska)
‘D’ Hunter & Connolly, 1986 (cytoform) .....	Canada (BC incl. Queen Charlotte Islands), USA (Cal,
	Ore, Was)
‘E’ Hunter & Connolly, 1986 (cytoform) .....	Canada (BC incl. Queen Charlotte Islands)
<i>prugetense</i> : incorrect subsequent spelling	
<b>purii</b> Datta, 1973 .....	India (West Bengal); China (Tibet), Nepal
<b>qiaolaoense</b> Chen, 2001 .....	China (Guizhou)
<i>qiaolaoense</i> , <i>qiaoluense</i> : incorrect subsequent spellings	
<b>qinlingense</b> Xiu & Chen, 2016 [ <i>in</i> Chen] .....	China (Shanxi)
<b>qingshuiense</b> Chen, 2001 .....	China (Guizhou)
<i>qinshuiense</i> : incorrect subsequent spelling	
<b>quasidecolletum</b> Crosskey, 1988 [1987] (subst. name) .....	France; Austria, Germany, Italy, Spain, Switzerland
<i>truncatum</i> Dorier & Grenier, 1961 (unav., form post-1960)	
<i>truncatum</i> (Rivosecchi & Cardinali, 1975) (preocc.)	
<b>quebecense</b> Twinn, 1936 .....	Canada (Quebec, NS, Ont); USA (Geo, Mic, NC, NH,
<i>quebecenses</i> : incorrect subsequent spelling	NJ, NY, Pen, SC, Vir, WV)
[see Adler, Currie & Wood, 2004 for misidentifications]	
<b>raohense</b> Cai & An, 2006 .....	China (Heilongjiang)
<b>rebunense</b> (Ono, 1979) .....	Japan (Hokkaido: Rebun Island)
<b>rushanense</b> (Chubareva & Petrova, 2008) (unav., <i>nomen nudum</i> ,	
attrib. Chubareva) .....	Tajikistan
<b>saliceti</b> (Rubtsov, 1971) .....	Siberia (Magadanskaya FE)
<b>satakei</b> Takaoka & Saito, 2006 .....	Japan (Bonin Islands = Ogasawara Islands)
<b>serratum</b> Chen & Zhang, 2016 [ <i>in</i> Chen] (junior primary homonym	
of <i>serratum</i> Takaoka, 2003, but no available subst. name) .....	China (Gansu)



<i>serrafum</i> : incorrect original spelling	
<b>shutovae</b> (Rubtsov, 1956)§§§ .....	Siberia (Maritime FE)
<i>shutovan</i> , <i>shutove</i> : incorrect subsequent spellings	
<b>silvestre</b> (Rubtsov, 1956) .....	Siberia (Irkutskaya ES, WS); Canada (Alb, BC, Lab, Man, NB, Nfld, Nun, NWT, Ont, PEI, Que incl. Magdalen Islands, Sask, Yukon), China (Si, Yu), Finland, Mongolia, Norway, Russia (KM), Sweden, Ukraine, USA (Alaska, Cal, Col, Idaho, Maine, Mic, NH, NJ, NY, Ore, Pen, Was, Wyo)
<i>caledonense</i> Adler & Currie, 1986 [Canada (Alberta)]	
‘St. Rose’ Landau, 1962 [ <i>in</i> Dunbar, thesis]	
<i>latipes</i> [= <i>vernum</i> ] cytoform)	
‘B’ Rothfels & Brockhouse, 1983 [ <i>in</i> Okaeme, thesis] ( <i>vernum</i> cytoform)	
‘Caledon’ Brockhouse, 1985 ( <i>vernum</i> cytoform)	
<i>sileste</i> , <i>silvesris</i> , <i>sivestre</i> , <i>sylvestre</i> : incorrect subsequent spellings	
[ <i>vernum</i> ‘Knebworth’: Brockhouse, 1985 / Allison & Shields, 1989 (part, Alaska)]	
[see Adler, Currie & Wood, 2004 for additional misidentifications]	
<b>strelkovi</b> (Rubtsov, 1956) .....	Siberia (Sakhalin FE)
<b>subcostatum</b> (Takahasi, 1950) .....	Japan (Hokkaido incl. Rishiri Island, Hon, Ky, Sh); China (Li), Korea (South), Siberia (FE incl. Kurile Islands and Sakhalin)
<i>subcositatum</i> , <i>subcostam</i> , <i>subcostatam</i> : incorrect subsequent spellings	
<b>taulingense</b> Takaoka, 1979 .....	Taiwan
<b>tauricum</b> (Rubtsov, 1956) .....	Ukraine (Crimea)
<i>tahuricum</i> : incorrect subsequent spelling	
<b>tayense</b> Takaoka & Ya’cob, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya’cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>thrimshinglaense</b> Takaoka & Somboon, 2008 .....	Bhutan
<b>timondavidi</b> Giudicelli, 1961 [1960] .....	France (Corsica)
<i>timodavidi</i> : incorrect subsequent spelling	
<b>tjibodense</b> Edwards, 1934 .....	Indonesia (Java)
<i>tibodense</i> : incorrect subsequent spelling	
<b>tosariense</b> Edwards, 1934 .....	Indonesia (Java)
<b>toubkal</b> Bouzidi & Giudicelli, 1986 .....	Morocco
<b>uchidai</b> (Takahasi, 1950) .....	Japan (Hokkaido incl. Rebun and Rishiri Islands, Hon, Ky, NI, Sh); China (Li), Korea (South), Siberia (FE incl. Sakhalin)
‘Latipes-buyu’ Kani, 1944	
<i>uchidae</i> , <i>uchidal</i> , <i>ucidai</i> : incorrect subsequent spellings	
[ <i>latipes</i> : Bentinck, 1955, not Meigen]	
<b>uemotoi</b> Sato, Takaoka & Fukuda, 2004 .....	Japan (Kyushu, Hok, Hon, Sh)
‘2’ Orii, Uemoto & Onishi, 1969 ( <i>Eusimulium</i> sp.)	
‘3’ Onishi, Uemoto & Orii, 1971 ( <i>Eusimulium</i> sp.)	
‘H’ Saito & Kanayama, 1988 ( <i>Simulium</i> sp.)	
<b>urbanum</b> Davies, 1966 .....	Britain (England); Austria, Belgium, Denmark, Germany, Ireland, Luxembourg, Spain, Sweden, Netherlands (?)
‘B1’ Hunter, 1987 ( <i>cryophilum</i> cytoform)	
<b>vernum</b> Macquart, 1826 [1823/24]	
[valid, ICZN Opinion 1416, List] (complex)* .....	France; Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Britain (En, Sc, Wa), China (He, IM, Jilin, Li), Croatia, Czech Republic, Denmark, Estonia, Finland, Germany, Georgia, Hungary, Iceland, Ireland, Italy (incl. Sicily), Kazakhstan, Latvia, Liechtenstein, Lithuania, Moldova, Mongolia, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (CR, KM, NR, SR), Serbia, Siberia (FE, WS), Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, Ukraine. [Not North America (misidentified)]
<i>pubiventris</i> Zetterstedt, 1837 (unav., <i>nomen nudum</i> )	
<i>pubiventre</i> Zetterstedt, 1838 [Sweden]	
<i>trabeatum</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	
<i>trabeatum</i> (Enderlein, 1921 [June]) (available) [France]	
<i>pritzkowi</i> (Enderlein, 1926) [Sweden]	
<i>albipileatum</i> (Enderlein, 1926) [Germany]	
<i>schielei</i> (Enderlein, 1926) [Germany]	
<i>wigandi</i> (Enderlein, 1928) [Poland]	
<i>fluminale</i> (Rubtsov, 1956) [Siberia (Permskaya)]	
<i>hatangense</i> (Rubtsov, 1956) [Siberia (Krasnoyarsk ES)]	
<i>aestivale</i> (Rubtsov, 1962) [Russia (St Petersburg)]	
<i>meridionale</i> (Rivosecchi & Lipparoni, 1965) (preocc.) [Italy]	[Yankovsky, 2003 [2002] treats <i>hatangense</i> as valid sp.]
<i>mariae</i> (Usova & Reva, 2008) (unav., <i>nomen nudum</i> )	
‘Dorset IIS-1’ Brockhouse, 1985 (cytoform) .....	Britain (En)
‘Knebworth’ Brockhouse, 1985 (cytoform) .....	Britain (En), Finland, Sweden. [‘USA (Alaska)’ error]
‘Lyminster’ Brockhouse, 1985 (cytoform) .....	Britain (En)

'N89' Brockhouse, 1985 (cytoform) .....	Norway
'N99' Brockhouse, 1985 (cytoform) .....	Norway
'N111/N96' Brockhouse, 1985 (cytoform) .....	Norway
'X <sub>0</sub> Y <sub>0</sub> ' Hunter, 1987 (cytoform) .....	Germany, Italy
'X <sub>0</sub> Y <sub>1</sub> ' Hunter, 1987 (cytoform) .....	Germany
'Hornvik' Bass & Brockhouse, 1990 / Brockhouse, 1991 (thesis) (cytoform) .....	Iceland, Norway
'Knobworth' Chubareva & Petrova, 2003 (lapsus for 'Knebworth') <i>estivale</i> : incorrect subsequent spelling <i>pritzkovi</i> : incorrect subsequent spelling <i>vesnum</i> : incorrect subsequent spelling [ <i>latipes</i> : authors (incl. Rubtsov & Yankovsky, 1988 Catalogue), not Meigen: sense invalid (ICZN Opinion 1416)]	
<b>wulindongense</b> An & Yan, 2006 .....	China (Heilongjiang)
<i>wulindongense</i> : incorrect subsequent spelling	
<b>wyomingense</b> Stone & DeFoliart, 1959 .....	USA (Wyoming, Cal, Ore, Utah); Canada (BC)
<i>alpinum</i> Peterson, 1958 (thesis) (unav., <i>nomen nudum</i> ) [ <i>minus</i> : Hearle, 1932 / Coleman, 1951 (thesis), not Dyar & Shannon]	
<b>xinbinense</b> Chen & Cao, 1983 .....	China (Liaoning)
<i>xinbinest</i> : incorrect subsequent spelling	
<b>xueae</b> Sun, 1994 .....	China (Liaoning)
<i>xueae</i> Sun, 1992 (? available, not seen, cited by Sun 1994)	
<b>yushangense</b> Takaoka, 1979 .....	Taiwan; China (Gu)
<i>yeshangense</i> , <i>yushangens</i> , <i>yushangonse</i> , <i>yushungense</i> : incorrect subsequent spellings	
<b>zakhariense</b> (Rubtsov, 1955) .....	Armenia; Azerbaijan, Georgiat
<i>zekhariense</i> : incorrect subsequent spelling	
<b>zhangjiajiense</b> Chen, Zhang & Bi, 2004 .....	China (Hunan)
<b>zhiltzovae</b> (Rubtsov, 1976) .....	Georgia
'A' Datta, Dey & Paul, 1975 ( <i>Simulium</i> sp.) .....	India (WB)
'Vashisht' Datta, 1982 ( <i>Simulium</i> sp.) .....	India (HP)
'1' (Ismagulov, 1993) (thesis) / (Chubareva & Petrova, 2003) .....	Kazakhstan
'2' (Ismagulov, 1993) (thesis) / (Chubareva & Petrova, 2003) .....	Kazakhstan
'3' (Chubareva & Petrova, 2003) .....	Tajikistan
'4' (Chubareva & Petrova, 2003) .....	Russia
'IL-8' Adler, Belqat, González, Pérez & Seitz, 2016 (cytospecies) .....	Portugal

*Nevermannia* species unplaced to group

'D' Datta, Dey & Paul, 1975 ( <i>Simulium</i> sp.) .....	India (Sik, WB)
'KUa' Yoon & Song, 1990 ( <i>Simulium</i> sp.) .....	Korea (South)
'KUb' Yoon & Song, 1990 ( <i>Simulium</i> sp.) .....	Korea (South)
'KUc' Yoon & Song, 1990 ( <i>Simulium</i> sp.) .....	Korea (South)
'KUd' Yoon & Song, 1990 ( <i>Simulium</i> sp.) .....	Korea (South)
'C' Zhang, Wen & Chen, 1999 ( <i>Simulium</i> sp.) .....	China (Guizhou)

**Subgenus NOTOLEPRIA Enderlein**

**NOTOLEPRIA** Enderlein, 1930 (as genus). Type species: *exiguum* (original designation)

<b>blantoni</b> Field, 1967 .....	Panama
<b>cuasiexiguum</b> Shelley, Luna Dias, Maia-Herzog & Lowry, 2000 [ <i>in</i> Shelley, Maia-Herzog, Lowry, Luna Dias, Garritano, Shelley, Camargo & Carter] .....	Brazil (Goias, MGr, SP, Toc)
<b>exiguum</b> Roubaud, 1906 (complex) .....	Venezuela; Argentina (Jujuy, Salta, Tuc), Bolivia, Brazil (Amz, Bahía, BFD, ES, Goiás, MG, MGr, MGrS, Par, RJ, Ror, SP, Toc), Colombia, Ecuador, Guatemala,
<i>glaucophthalmum</i> Knab, 1914 [Peru ('Santa Clara')]	
<i>delpontei</i> Paterson & Shannon, 1927 [Argentina (Salta)]	

<i>urubambanum</i> Enderlein, 1934 [1933] [Peru (Cuzco)]	Guyana, Mexico (Mo), Panama, Peru (Cuzco, Huá, Junín, Lima)
‘C’ Shelley, Nunes de Mello & Rees, 1976 (morphoform) .....	Brazil (Amazonas)
‘Aguarico’ Procnier, Shelley & Arzube, 1985 (cytoform) .....	Ecuador
‘Bucay’ Procnier, Shelley & Arzube, 1985 (cytoform) .....	Ecuador
‘Cayapa’ Procnier, Shelley & Arzube, 1985 (cytoform) .....	Ecuador
‘Quevedo’ Procnier, Shelley & Arzube, 1985 (cytoform) .....	Ecuador
‘N’ Charalambous, Shelley & Arzube, 1997 (cytoform) .....	Ecuador
‘Huatarac’ Charalambous, Arzube & Lowell, 1998 (cytoform) .....	Ecuador
‘Napo’ Charalambous, Arzube & Lowell, 1998 (cytoform) .....	Ecuador
<i>delponti</i> : incorrect subsequent spelling	
<i>exiigum</i> : incorrect subsequent spelling	
<i>glaucophthalmum</i> , <i>glaucophthalmicum</i> : incorrect subsequent spellings	
<b>gonzalezi</b> Vargas & Díaz Nájera, 1953 (complex) .....	Guatemala; Belize, Costa Rica, Ecuador, Mexico (Ch, Co, Gu, Hi, Ja, Mi, Mo, Na, Ox, Pu, SLP, Ta, Tb, Vz)
<i>gonzalesi</i> : incorrect subsequent spelling	
[ <i>exiguum</i> : authors, not Roubaud]	
<b>incertum</b> Lutz, 1910 .....	Brazil (Minas Gerais, SP)
<b>llutense</b> Coscarón & Matta, 1982 .....	Chile (Tarapacá)
<b>paraguayense</b> Schrottky, 1909 .....	Paraguay; Argentina (Cos, Mis), Brazil (Bahía, MG, RDJ, SC, SP), Venezuela
<b>paranense</b> Schrottky, 1909 .....	Paraguay
<b>subexiguum</b> Field, 1967 .....	Panama; Mexico (Ch)
‘A’ Ibáñez-Bernal, 1992 ( <i>Simulium</i> sp.) .....	Mexico (Chiapas)

#### Subgenus OBUCHOVIA Rubtsov

**OBUCHOVIA** Rubtsov, 1947 (as subgenus of *Simulium*)†, #. Type species: *albellum* (monotypy)

<b>adornatum</b> (Rubtsov, 1956) .....	Russia (Caucasus)
<b>albellum</b> Rubtsov, 1947 .....	Tajikistan; Afghanistan, Kazakhstan, Pakistan, Uzbekistan
<i>sibella</i> : incorrect subsequent spelling	
<b>auricoma</b> Meigen, 1818 .....	Austria; Andorra, Bulgaria, Croatia, Cyprus, Czech Republic, France (incl. Corsica), Germany, Greece (Crete, Ikaría, Lésbos, Naxos, Rhodes, Samos), Italy (incl. Sardinia, Sicily), Kazakhstan, Lebanon, Morocco, Poland, Portugal, Romania, Serbia, Slovakia, Spain, Switzerland, Turkey, Ukraine
<i>syriacum</i> Roubaud, 1909 [ <i>in</i> Bezzi] [Lebanon]	
<i>djerdapense</i> Baranov, 1937 [Serbia]	
<b>biseriatum</b> Rubtsov, 1940 .....	Tajikistan [neotype]; China (Tibet)
<b>brevifile</b> (Rubtsov, 1956) .....	Ukraine (Crimea); Italy (incl. Sicily, Sardinia)
<b>continii</b> (Rivosecchi & Cardinali, 1975) .....	Italy (Sardinia)
<b>emiliae</b> (Rubtsov, 1976) .....	Tajikistan
<b>galloprovinciale</b> Giudicelli, 1963 [1962] .....	France; Algeria, Italy, Morocco, Spain, Turkey
<b>ibericum</b> Crosskey & Santos Grácio, 1985 .....	Portugal; Spain
<b>karasuae</b> (Panchenko, 1998) .....	Ukraine (Crimea)
<i>karacuae</i> : incorrect original spelling [alternative]	
<b>margaritae</b> (Rubtsov, 1956) .....	Armenia; Iran, Turkey
<i>maegaitae</i> , <i>margarita</i> , <i>margaritea</i> : incorrect subsequent spellings	
<b>marocanum</b> Bouzidi & Giudicelli, 1988 [1987] .....	Morocco; Algeria
<b>popowae</b> Rubtsov, 1940 .....	Armenia; Azerbaijan, Bulgaria, Georgia, Russia (Caucasus)
<i>terminasjanae</i> Terteryan, 1952 [Armenia]	
<i>atrofusum</i> (Rubtsov, 1956) [Armenia]	
<i>popovae</i> : incorrect subsequent spelling	
<i>terminasjane</i> : incorrect original spelling (alternative)	
<b>segusinum</b> (Couvert, 1968) .....	Italy
<i>seguisina</i> : incorrect subsequent spelling	
<b>transcaspicum</b> Enderlein, 1921 [June] .....	Turkmenistan; Azerbaijan, Iran, Turkey (?)

*transcaspicum* Enderlein, 1921 [April] (unav., *nomen nudum*)  
*trensaspica*: incorrect subsequent spelling  
*[ochrescentipes*: Rubtsov & Yankovsky, 1988, not Enderlein]

### Subgenus PHORETOMYIA Crosskey

**PHORETOMYIA** Crosskey, 1969 (as subgenus of *Simulium*). Type species: *copleyi* (original designation)

<b>afonuri</b> Lewis & Disney, 1970 .....	Cameroon
<b>baetiphilum</b> Lewis & Disney, 1972 .....	Cameroon
<i>baetophilum</i> : incorrect subsequent spelling	
<b>berneri</b> Freeman, 1954 .....	Ghana; Cameroon, Ivory Coast, Liberia, Uganda, Angola (?)
<b>copleyi</b> Gibbins, 1941 .....	Kenya; Tanzania, Uganda
<b>desirei</b> Pilaka & Elouard, 1999 .....	Madagascar
<b>diceros</b> Freeman & De Meillon, 1953 .....	Democratic Republic of Congo
<b>dukei</b> Lewis, Disney & Crosskey, 1969 [1968] .....	Cameroon
[ <i>aureosimile</i> : Duke, 1962, not Pomeroy]	
<b>kiangaraense</b> Pilaka & Elouard, 1999 .....	Madagascar
<b>kumboense</b> Grenier, Germain & Mouchet, 1966 [1965] .....	Cameroon
<b>lumbwanum</b> De Meillon, 1944 .....	Kenya; Botswana, Cameroon, Ivory Coast, Liberia, South Africa (M), Swaziland, Uganda, Zambia/Zimbabwe (Victoria Falls) (?)
<i>lerabanum</i> Gouteux, 1979 [1978] (ssp.) [Ivory Coast]	
<b>marlieri</b> Grenier, 1950 .....	Democratic Republic of Congo
<b>melanocephalum</b> Gouteux, 1978 .....	Democratic Republic of Congo
<b>moucheti</b> Gouteux, 1977 .....	Democratic Republic of Congo
<b>rickenbachi</b> Germain, Grenier & Mouchet, 1966 .....	Cameroon
<b>zairensis</b> Gouteux, 1977 .....	Democratic Republic of Congo

### Subgenus POMEROYELLUM Rubtsov

**POMEROYELLUM** Rubtsov, 1962 (as genus). Type species: *cervicornutum* (original designation)

#### ALCOCKI species-group

<b>alcocki</b> Pomeroy, 1922 .....	Nigeria; Angola, Benin, Burkina Faso, Cameroon, Central African Republic, Democratic Republic of Congo, Equatorial Guinea (Bioko), Ethiopia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Liberia, Malawi, Mozambique, Rwanda, São Tomé and Príncipe (São Tomé), Senegal, Sierra Leone, South Africa (FS, G, KZN, L, M, WC), South Sudan, Sudan, Swaziland, Tanzania, Togo, Uganda
<i>kenyanum</i> Séguy, 1938 [Kenya]	
<i>henrardi</i> Gibbins, 1941 [Democratic Republic of Congo]	
<i>hendardi</i> : incorrect subsequent spelling	
<b>allaeri</b> Wanson, 1947 .....	Democratic Republic of Congo
<b>bayakorum</b> Fain & Elsen, 1974 .....	Democratic Republic of Congo
<b>coalitum</b> Pomeroy, 1922 .....	Nigeria; Cameroon, Democratic Republic of Congo, Ghana, Ivory Coast, Togo
<b>djallonense</b> Roubaud & Grenier, 1943 .....	Guinea; Benin, Burkina Faso, Cameroon, Ghana, Guinea-Bissau, Ivory Coast, Liberia, Mali, Nigeria, Sierra Leone
<b>duodecimum</b> Gibbins, 1936 .....	Uganda; Cameroon, Democratic Republic of Congo, Kenya, South Sudan
<b>evillense</b> Fain, Hallot & Bafort, 1966 .....	Democratic Republic of Congo (Katanga); Botswana, Burkina Faso, Ivory Coast, Mali, Nigeria, Tanzania, Zambia
‘A’ Hallot, Fain, Bafort & Lips, 1965 ( <i>Simulium</i> )	
[ <i>merops</i> : authors, not De Meillon]	
<b>garmsi</b> Crosskey, 1969 (subst. name, for <i>occidentale</i> ) .....	Nigeria; Benin, Burkina Faso, Cameroon, Democratic

<i>violaceum</i> Pomeroy, 1922 (preocc.)	Republic of Congo, Equatorial Guinea (Bioko),
<i>occidentale</i> Freeman & De Meillon, 1953 (subst. name, preocc., for <i>violaceum</i> )	Ghana, Guinea, Guinea-Bissau, Ivory Coast, Liberia, Sierra Leone, Togo, South Africa (?), Tanzania (?)
<b>geigy</b> Garms & Häusermann, 1968 .....	Tanzania; Ethiopia
<b>gilleti</b> Fain & Hallot, 1964 .....	Democratic Republic of Congo
<b>hisseteum</b> Gibbins, 1936§ .....	Democratic Republic of Congo; Cameroon, Kenya, Uganda
<i>vargasi</i> Grenier & Rageau, 1949 [Cameroon]	
<i>hisseteum</i> , <i>hissetum</i> : incorrect subsequent spellings	
<b>impukane</b> De Meillon, 1936 .....	South Africa (KwaZulu Natal, EC, FS, G, L, M, NC, NW, WC); Angola, Benin, Cameroon, Democratic Republic of Congo, Ethiopia, Guinea, Lesotho, Malawi, Mozambique, Nigeria, Sierra Leone, South Sudan, Swaziland, Tanzania
<i>impucane</i> : incorrect subsequent spelling	
<b>ituriense</b> Fain, 1951§ .....	Democratic Republic of Congo; Uganda
<b>johannae</b> Wanson, 1947§ .....	Democratic Republic of Congo; Benin, Cameroon, Ethiopia, Ivory Coast, Kenya, Liberia, Nigeria, Rwanda, Uganda, Zambia, Tanzania (?)
<i>roubaudi</i> Grenier & Rageau, 1949 [Cameroon]	
<i>jadini</i> Fain, 1950 [Rwanda]	
<i>akanyaruense</i> Fain, 1950 [Rwanda]	
<i>novemcornutum</i> Fain & Elsen, 1980 (ssp.) [Democratic Republic of Congo]	
<b>liberiense</b> Garms, 1973 .....	Liberia; Ivory Coast
<b>mayumbense</b> Fain & Elsen, 1973 .....	Democratic Republic of Congo
<b>merops</b> De Meillon, 1950 .....	South Africa (Western Cape, EC). [Other records erroneous]
<b>multiclavulatum</b> Fain, Elsen & Dujardin, 1989 .....	Democratic Republic of Congo
<b>nyaense</b> Gouteux, 1977 .....	Democratic Republic of Congo
<b>oguamai</b> Lewis & Disney, 1972 .....	Cameroon; Democratic Republic of Congo
<b>rodhaini</b> Fain, 1950 .....	Rwanda
<b>santomi</b> Mustapha, 2004 [ <i>in</i> Mustapha, Jarvis & Post] .....	São Tomé and Príncipe (São Tomé)
<b>schwetzi</b> Wanson, 1947 .....	Democratic Republic of Congo
<i>sextumdecimum</i> Luna de Carvalho, 1962 (unav., form post-1960) .....	Angola
<b>tentaculum</b> Gibbins, 1936 .....	Uganda; Democratic Republic of Congo, Ethiopia, Kenya, Malawi, South Sudan, Tanzania, South Africa (?)
<b>weyeri</b> Garms & Häusermann, 1968 .....	Tanzania; Ethiopia

#### CERVICORNUTUM species-group

<b>aureliani</b> Fain, 1950 .....	Rwanda
<b>blacklocki</b> De Meillon, 1930 .....	Sierra Leone; Liberia
<b>borunicornutum</b> Pilaka & Elouard, 1999 .....	Madagascar
<b>cervicornutum</b> Pomeroy, 1920 .....	Cameroon; Angola, Benin, Burkina Faso, Burundi, Central African Republic, Democratic Republic of Congo, Equatorial Guinea (Bioko), Ethiopia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Liberia, Malawi, Mozambique, Nigeria, Rwanda, Sierra Leone, South Africa (EC, FS, KZN, L, M), South Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia
‘Gibbins’ Mustapha, McCall, Cheke & Post, 2006 (morphoform)	
‘Pomeroy’ Mustapha, McCall, Cheke & Post, 2006 (morphoform)	
<b>grenieri</b> Pilaka & Elouard, 1999 .....	Madagascar
<b>leberrei</b> Grenier, Germain & Mouchet, 1966 [1965] .....	Cameroon
<b>palmeri</b> Pomeroy, 1922 .....	Nigeria; Cameroon, Democratic Republic of Congo
‘Moliba’ Lewis & Disney, 1972 (morphoform) .....	Cameroon
<b>pauliani</b> Grenier & Doucet, 1949 .....	Madagascar
<b>phluktainae</b> Elouard & Pilaka, 1999 [ <i>in</i> Pilaka & Elouard] .....	Madagascar
<b>quilleverei</b> Pilaka & Elouard, 1999 .....	Madagascar
<b>rotundum</b> Gibbins, 1936 .....	Uganda; Angola, Burundi, Democratic Republic of Congo, Kenya, Malawi, Lesotho, Mozambique, Rwanda, South Africa (EC, FS, G, KZN, M, WC),

<b>tandrokum</b> Elouard & Pilaka, 1999 [ <i>in</i> Pilaka & Elouard] .....	South Sudan, Swaziland, Tanzania
<b>unicornutum</b> Pomeroy, 1920 .....	Madagascar
<i>monoceros</i> Roubaud & Grenier, 1943 [Guinea]	Cameroon; Angola, Benin, Burkina Faso, Burundi,
<i>wolfsi</i> Wanson & Henrard, 1944 [Democratic Republic of Congo]	Central African Republic, Democratic Republic of
<i>bertrandi</i> Luna de Carvalho, 1962 (unav., form post-1960	Congo, Ethiopia, Ghana, Guinea, Guinea-Bissau, Ivory
and preocc.) [Angola]	Coast, Kenya, Lesotho, Liberia, Madagascar, Malawi,
‘Palmeri’ Mustapha <i>et al.</i> , 2006 (morphoform) [uncharacterized]	Mali, Mozambique, Nigeria, Sierra Leone, South Africa
	(EC, FS, KZN, L, M, WC), South Sudan, Tanzania,
	Togo, Uganda
<b>vangilsi</b> Wanson, 1947 .....	Democratic Republic of Congo

#### KENYAE species-group

<b>kenyae</b> De Meillon, 1940 .....	Kenya; Cameroon, Democratic Republic of Congo, Guinea, Ivory Coast, Liberia, Nigeria, Rwanda, Sierra Leone, South Sudan, Uganda
--------------------------------------	---

#### SCHOUTEDENI species-group

<b>audreyae</b> Garms & Disney, 1974 .....	Cameroon
<i>audreyae</i> : incorrect original spelling (alternative)	
<b>awashense</b> Uemoto, Ogata & Mebrahtu, 1977 .....	Ethiopia; Botswana
<b>bequaerti</b> Gibbins, 1936 .....	Democratic Republic of Congo (Katanga); Angola,
<i>phoroniforme</i> De Meillon, 1937 [South Africa (KwaZulu Natal)]	Kenya, Lesotho, South Africa (EC, FS, KZN, L, M),
<i>becquaerti</i> : incorrect subsequent spelling	Swaziland, Zimbabwe
<b>harrisoni</b> Freeman & De Meillon, 1953 .....	South Africa (Western Cape); Zambia
<b>mcmahoni</b> De Meillon, 1940 .....	Kenya; Angola, Botswana, Congo, Democratic Republic
<i>altipartitum</i> Roubaud & Grenier, 1943 [Congo]	of Congo, Ethiopia, Malawi, Mali, Mozambique,
‘Tanzania’ Garms & Disney, 1974 (morphoform)	Nigeria, Rwanda, South Africa (EC, FS, G, L, M, NC,
<i>altipartum</i> : incorrect subsequent spelling	NW), South Sudan, Swaziland, Tanzania,
<i>macmahoni</i> , <i>momahoni</i> : incorrect subsequent spellings	Uganda, Zambia
<b>schoutedeni</b> Wanson, 1947 .....	Democratic Republic of Congo; Angola, Benin, Burkina
	Faso, Cameroon, Ghana, Guinea, Ivory Coast, Liberia,
	Nigeria, South Sudan, Tanzania, Togo
‘B’ Hallot, Fain, Bafort & Lips, 1965 ( <i>Simulium</i> ) .....	Democratic Republic of Congo

#### *Pomeroyellum* species unplaced to group

‘a’ Williams & Hynes, 1971 ( <i>Simulium</i> ) .....	Uganda
‘Ethiopian A’ Uemoto, Ogata & Mebrahtu, 1976 ( <i>Simulium</i> sp.) .....	Ethiopia
‘Ethiopian B’ Uemoto, Ogata & Mebrahtu, 1976 ( <i>Simulium</i> sp.) .....	Ethiopia
‘Ethiopian C’ Uemoto, Ogata & Mebrahtu, 1976 ( <i>Simulium</i> sp.) .....	Ethiopia

#### Subgenus PSARONIOCOMPSA Enderlein

<b>PSARONIOCOMPSA</b> Enderlein, 1934 (as genus)****. Type species: <i>incrustatum</i> , as <i>opaliniifrons</i> (original designation)
<i>PLIODASINA</i> Enderlein, 1936 (as genus). Type species: <i>guttatum</i> (original designation)
<i>INAEQUALIUM</i> Coscarón, 1981 [1980] (unav., <i>nomen nudum</i> )
<i>CERQUEIRELLUM</i> Py-Daniel, 1983 (as subgenus of <i>Simulium</i> ). Type species: <i>amazonicum</i> (original designation)
<i>COSCARONIELLUM</i> Py-Daniel, 1983 (as subgenus of <i>Simulium</i> ). Type species: <i>quadrifidum</i> (original designation)
<i>INAEQUALIUM</i> Coscarón & Wygodzinsky, 1984 (as subgenus of <i>Simulium</i> ). Type species: <i>inaequale</i> (original designation)
<i>SHELLEYELLUM</i> Py-Daniel & Pessoa, 2005 (as genus) (unav., no designated type species)
<i>SHELLEYELLUM</i> Py-Daniel & Pessoa, 2006 (as genus). Type species: <i>siolii</i> (original designation)
<i>INAEQUALIM</i> : incorrect subsequent spelling

#### AMAZONICUM species-group\*

<b>amazonicum</b> Goeldi, 1905 [ICZN List] .....	Brazil (Amazonas [neotype designated ICZN Opinion 1341], Acre, Ron, Ror); Colombia, Venezuela
<i>amazonense</i> Lutz, 1917, 1922 (unav., typographical error for <i>amazonicum</i> , vide Pinto, 1932 [1931])	
<i>tallaferroae</i> Ramírez-Pérez, 1971 [Venezuela]	
‘R. Mari’ Shelley, Hernández, Maia-Herzog, Luna Dias & Luz, 2006 (morphoform) .....	Brazil (Amz)
‘R. Ituxi’ Shelley, Hernández, Maia-Herzog, Luna Dias & Luz, 2006 (morphoform) .....	Brazil (Amz)
<i>amazonicum</i> : incorrect subsequent spelling	
<i>tallaferroae</i> : incorrect subsequent spelling	
<b>argentiscutum</b> Shelley & Luna Dias, 1980 .....	Brazil (Rondônia, Acre, Amz, Bahía); Bolivia, Colombia, Peru (Ucayali)
‘sp. n.’ Shelley, Luna Dias & Moraes, 1980 ( <i>Simulium</i> )	
‘E’ Tidwell <i>et al.</i> , 1981 (morphoform)	
‘Madeira’ Shelley, Pinger & Moraes, 1982 ( <i>Simulium</i> sp.)	
[ <i>amazonicum</i> : Cerqueira, 1959, not Goeldi]	
[ <i>urubambanum</i> : Enderlein, 1934 [1933] (part)]	
<b>chaquense</b> Coscarón, 1971 .....	Argentina (Chaco, BA, Cos, For, Salta, SDE, SF, Tuc)
<b>cuneatum</b> (Enderlein, 1936) .....	Paraguay; Argentina (Chaco, Cos, ER, For, Mis, SDE, SF)
<b>delponteianum</b> Wygodzinsky, 1961 .....	Argentina (Buenos Aires, Cos, ER); Brazil (RGS), Uruguay
<i>delpontelanum</i> : incorrect original spelling	
<b>ganalesense</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (San Luis Potosi, Mo, Tb); Belize, Honduras
‘Belize’ Shelley, Hernández & Penn, 2002 (morphoform)	
‘nr. <i>ganalesense</i> ’ Hernández-Triana, 2002 (morphoform)	
<b>oyapockense</b> Floch & Abonnenc, 1946 (complex) .....	French Guiana; Argentina (Salta, SDE, Tuc), Bolivia, Brazil (Acre, Amapá, Amz, ES, MG, MGr, MGrS, Pará, Paraná, RGS, Ron, Ror, SP, Toc), Colombia, Ecuador, Guyana, Paraguay, Uruguay, Venezuela
<i>pseudosanguineum</i> Ramírez-Pérez & Peterson, 1981 [Venezuela]	
<i>pseudoamazonicum</i> Ramírez-Pérez & Peterson, 1981 [Venezuela]	
<i>cuasisanguineum</i> Ramírez-Pérez, Yarzabal & Peterson, 1982 [Venezuela]	
<i>sanchezi</i> Ramírez-Pérez, Yarzabal & Peterson, 1982 [Venezuela]	
<i>pydanieli</i> (Pessoa, Medeiros & Barbosa, 2008) [ <i>in</i> Pessoa, Barbosa & Medeiros] [Brazil (Amazonas)]	
‘A’ Shelley, Nunes de Mello & Rees, 1976 (morphoform) .....	Brazil (Amazonas)
‘A’ Tidwell <i>et al.</i> , 1981 (morphoform) .....	Bolivia, Brazil, Colombia, Guyana, Venezuela
‘B’ Tidwell <i>et al.</i> , 1981 (morphoform) .....	Venezuela
‘C’ Tidwell <i>et al.</i> , 1981 (morphoform) .....	Venezuela
‘Barbaocoas’ Shelley, Pinger & Moraes, 1982 ( <i>Simulium</i> sp.) .....	Venezuela
‘Bem Querer’ Shelley <i>et al.</i> , 1988 (cytoform, uncharacterized) .....	Brazil (Roraima)
<i>oyapockense</i> : incorrect subsequent spelling	
[ <i>amazonicum</i> : authors, not Goeldi]	
[ <i>haematopotum</i> : Smart, 1940, not Malloch]	
[ <i>minusculum</i> : authors, not Lutz]	
<b>quadristrigatum</b> Enderlein, 1934 [1933] .....	Brazil (Paraná); Paraguay
<b>roraicense</b> Nunes de Mello, 1974 (complex) .....	Brazil (Roraima); Argentina (Chaco, Cos), Ecuador, Venezuela
‘Manabi’ Procnier, Shelley & Arzube, 1987 ( <i>oyapockense</i> cytoform) .....	Ecuador
‘Argentina’ Shelley, Hernández, Maia-Herzog, Luna Dias & Luz, 2006 (morphoform) .....	Argentina (Chaco, Cos)
<b>sanguineum</b> Knab, 1915 .....	Colombia; Panama
<i>sanguineum</i> : incorrect subsequent spelling	
<b>siolii</b> Py-Daniel, 1988 .....	Brazil (Matto Grosso, Goiás, Mar, MGrS, Ron, Toc)
<i>lourencoi</i> Py-Daniel, 1988 [Brazil (Goiás)]	
<b>tergospinosum</b> Hamada, 2000 .....	Brazil (Amazonas)
<b>venezuelense</b> Ramírez-Pérez & Peterson, 1981 .....	Venezuela; Brazil (Amapá)
<i>damascenoi</i> Py-Daniel, 1988 [Brazil (Amapá)]	
‘S’ Hamada, Andrade-Souza, De Paul and Nascimento. 2023 [2022] .....	Brazil (Amazonas)

<b>anamariae</b> Vulcano, 1962 .....	Brazil (São Paulo, ES, Par, RGS, RJ, SC)
<b>auristriatum</b> Lutz, 1910 .....	Brazil (Minas Gerais, RJ, SC, SP)
<i>infuscatum</i> Lutz, 1910 (preocc.) [Brazil (Rio de Janeiro/São Paulo)]	
<b>bertellii</b> (Py-Daniel, Longaray, Pujol-Luz & Pessoa, 2021) .....	Brazil (Goiás)
<b>brevifurcatum</b> Lutz, 1910 .....	Brazil (São Paulo, RGS); Argentina (Mis)
<b>schmidtummi</b> Wygodzinsky, 1973 .....	Colombia
<i>schmidtummi</i> : incorrect subsequent spelling	
<b>stellatum</b> Gil-Azevedo, Figueiró & Maia-Herzog, 2005.....	Brazil (Minas Gerais, Bahia, RJ, SP)

#### BOTULIBRANCHIUM species-group

<b>botulibranchium</b> Lutz, 1910 .....	Brazil (Rio de Janeiro, ES, Par, RGS, SP); Argentina (Mis)
<i>botulibronchium</i> , <i>butulibranchium</i> , <i>tulibranchium</i> : incorrect subsequent spellings	
<b>marins</b> Pepinelli, Hamada & Currie, 2009 .....	Brazil (São Paulo)
<b>petropoliense</b> Coscarón, 1981 [1980] .....	Brazil (Rio de Janeiro, ES)
<i>petropoliense</i> : incorrect subsequent spelling	
<b>souzalopesi</b> Coscarón, 1981 [1980] .....	Brazil (Rio de Janeiro)

#### INAEQUALE species-group

<b>clavibranchium</b> Lutz, 1910 .....	Brazil (São Paulo, ES, MG, RGS, RJ, SC)
[ <i>subclavibranchium</i> : authors (except Brazil [Rôndonia]), not Lutz]	
<b>diversibranchium</b> Lutz, 1910 .....	Brazil (São Paulo, MG, RGS, RJ, SC); Argentina (Mis)
<i>missionum</i> Coscarón, 1976 [Argentina (Misiones)]	
<i>mariavulcanoae</i> Coscarón & Wygodzinsky, 1984 [Brazil (São Paulo)]	
<b>inaequale</b> (Paterson & Shannon, 1927) .....	Argentina (Tucumán [neotype], Jujuy, Mis, Salta); Bolivia, Brazil (Amapá, Bahia, BFD, ES, Goiás, MG, MGr, Par, Pba, RGS, RJ, Ror, SC, SP, Toc), Costa Rica, Ecuador, Guyana, Panama, Paraguay, Peru (‘Hoch-Peru’), Venezuela
<i>baiense</i> Pinto, 1932 [1931] [Brazil (Bahía)]	
<i>manicatum</i> (Enderlein, 1934) [1933] [Paraguay]	
<i>argentatum</i> (Enderlein, 1936) [Peru (‘Hoch-Peru’)]	
<i>clarki</i> Fairchild, 1940 [Panama]	
<i>jundiaense</i> d’Andretta & Dolores González, 1964 [Brazil (São Paulo)]	
<i>pseudoexiguum</i> Nunes de Mello & Barbosa de Almeida, 1974 [Brazil (Roraima)]	
<i>hauseri</i> Strieder, 1998 (thesis) (unav., <i>nomen nudum</i> )	
<i>hauseri</i> Coscarón & Coscarón-Arias, 2007 (unav., <i>nomen nudum</i> )	
<i>jundiaense</i> : incorrect subsequent spelling	
[ <i>subnigrum</i> (part): Pinto, 1932 [1931], not Lutz]	
<b>lundii</b> (Py-Daniel & Barbosa, 2007)* .....	Brazil (Amazonas)
<b>maranguapense</b> (Pessoa, Ríos-Velásquez & Py-Daniel, 2005) .....	Brazil (Ceará)
<b>margaritatum</b> Pepinelli, Hamada & Luz, 2006 .....	Brazil (Bahía)
<b>pujoli</b> (Py-Daniel, Coscarón & Pessoa, 2017) <b>Comb. n.</b> .....	Brazil (Goiás)
<b>rappae</b> Py-Daniel & Coscarón, 1982 .....	Brazil (Minas Gerais, ES, Goiás, RJ, SP)
<i>rappae</i> Py-Daniel & Coscarón, 1981 [ <i>in</i> Py-Daniel] (unav., <i>nomen nudum</i> )	
<i>rapporum</i> (Py-Daniel, Coscarón & Pessoa, 2017) <b>Comb. n.</b> (unnecessary subst. name)§§	
[ <i>margaritatum</i> : Hernández, Shelley, Luna Dias & Maia-Herzog, 2007, not Pepinelli, Hamada & Luz]	
<b>subnigrum</b> Lutz, 1910 .....	Brazil (Rio de Janeiro, Amz, Bahia, BFD, Ceará, ES, Goiás, MG, MGr, MGrS, Par, RGS, Ron, Ror, SC, SP); Argentina (Cos, Mis), Colombia, Paraguay, Trinidad, Venezuela
<i>diversifurcatum</i> Lutz, 1910 [Brazil (São Paulo)]	
<i>subclavibranchium</i> Lutz, 1910 [Brazil (Rondônia)]	
<i>nogueirai</i> d’Andretta & Dolores González, 1964 [Brazil (São Paulo)]	
<i>mbarigui</i> Coscarón & Wygodzinsky, 1973 [Argentina (Misiones)]	
<i>beaupertuyi</i> Ramírez-Pérez, Rassi & Ramírez, 1977 [Venezuela]	
<i>nahimi</i> Py-Daniel, 1984 [Brazil (Mato Grosso)]	
<i>leopoldense</i> Strieder, 1998 (thesis) (unav., <i>nomen nudum</i> )	



- leopoldense* (Strieder & Py-Daniel, 2000) [Brazil (Rio Grande do Sul)]  
*noguerai*: incorrect subsequent spelling
- travassosi** d'Andretta & d'Andretta, 1947 ..... Brazil (Rio de Janeiro, ES, Goiás, MG, Par, RGS, SC, SP); Argentina (Mis)
- ‘1’ Landeiro, Pepinelli & Hamada, 2009 ..... Brazil (Bahía)
- ‘2’ Landeiro, Pepinelli & Hamada, 2009 ..... Brazil (Bahía)

#### INCRUSTATUM species-group

- guaporense** Py-Daniel, 1989 ..... Brazil (Rondônia, MGr)  
*[siolii*: Py-Daniel, 1988 (part)]
- incrustatum** Lutz, 1910 (complex) ..... Brazil (Minas Gerais, Amapá, Bahía, BFD, Ceará, ES, Goiás, MGr, MGrS, Par, Pba, Per, RGN, RGS, RJ, Ror, SC, SP, Toc); Argentina (Cos, Mis), Colombia, Ecuador, Panama, Paraguay, Trinidad, Venezuela.  
*aequifurcatum* Lutz, 1910 [Brazil (? state)]  
*angrense* Pinto, 1932 [1931] [Brazil (Rio de Janeiro)]  
*opalinifrons* (Enderlein, 1934) [Paraguay]  
*yarzabali* Ramírez-Pérez, 1980 [Venezuela]  
 [‘Guyana’ error]
- limbatum** Knab, 1915 ..... Guyana; Brazil (Amapá, Bahía, ES, MGr, Pará, Pba, Per, RJ, Ror, SC, SP), Venezuela  
*machadoi* Ramírez-Pérez, 1971 (preocc.) [Venezuela]  
*meruoca* Nunes de Mello, Barbosa de Almeida & Dellome Filho, 1973 [Brazil (Roraima)]  
*machadoallisoni* Vulcano, 1981 (subst. name)  
*[aequifurcatum*: Coscarón & Wygodzinsky, 1984 / Coscarón, 1987, 1991 / Coscarón *et al.*, 1992, not Lutz]  
*[incrustatum* (part): authors (Guyana), not Lutz]
- lutzi** Knab, 1913 (subst. name, for *exiguum*)§§§ ..... Brazil (São Paulo, Bahía, BFD, ES, Goiás, MG, MGr, MGrS, Par, RGS, RJ, SC, Toc); Argentina (BA, Chaco, Cór, Cos, ER, For, Jujuy, LP, LR, Men, Mis, RN, Salta, SF, SJ, Tuc); Bolivia, Colombia, Ecuador, Paraguay, Uruguay  
*exiguum* Lutz, 1909 (preocc.)  
*minutum* Surcouf & Gonzalez-Rincones, 1911 (subst. name, preocc., for *exiguum*) ]  
*lutzi* Malloch, 1914 (subst. name, preocc., for *minutum*)  
*jujuyense* Paterson & Shannon, 1927 [Argentina (Jujuy)]  
*auripellitum* Enderlein, 1934 [1933] [Paraguay]  
*mendozanum* (Enderlein, 1936) [Argentina (Mendoza)]  
*guttatum* (Enderlein, 1936) [Paraguay]  
*bonaerense* Coscarón & Wygodzinsky, 1984 [Argentina (Buenos Aires)]  
*minuanum* Strieder & Coscarón, 2000 [Brazil (Rio Grande do Sul)]  
*clavigerum* Amaral-Calvão & Maia-Herzog, 2003 (unav., *nomen nudum*)  
*jujugense*, *jujuvense*: incorrect subsequent spellings
- minusculum** Lutz, 1910 ..... Brazil (Minas Gerais, Amz, Bahía, ES, Goiás, Mar, MGr, Pará, Piauí, RGS, Ron, Ror, SC, SP, Toc); Argentina (Cos, Jujuy, Mis, Salta), Guyana, Venezuela
- ‘D’ Tidwell *et al.*, 1981 (morphoform)  
*[amazonicum*: Lutz, 1917, not Goeldi]

#### QUADRIFIDUM species-group

- cauchense** Floch & Abonnenc, 1946 ..... French Guiana; Brazil (Amapá, Amz, Pará, Ror), Guyana, Suriname, Venezuela  
*sextobecium* Nunes de Mello, 1974 [Brazil (Roraima)]  
*rangeli* Ramírez-Pérez, Rassi & Ramírez, 1977 [Venezuela]  
 ‘4-A2’ Dellome Filho, 1978 (thesis) (*Simulium*, part)
- cerradense** Coscarón, Cerqueira, Schumaker & La Salvia, 1992 ..... Brazil (Bahía)  
 ‘A’ Coscarón, 1991 (*Simulium* (*Coscaroniellum*) sp.)
- daltanhani** Hamada & Adler, 1998 ..... Brazil (Amazonas)  
 ‘C’ Hamada, 1997 (thesis) (*Simulium*)
- goeldii** Cerqueira & Nunes de Mello, 1967 ..... Brazil (Amazonas, Amapá, Pará, Ron, Ror); French Guiana, Venezuela  
*scorzai* Ramírez-Pérez, 1980 [Venezuela]  
 ‘8-C1’ Dellome Filho, 1978 (thesis) (*Simulium*)  
*goeldi*: incorrect subsequent spelling
- quadrifidum** Lutz, 1917 ..... Brazil (Acre, Rondônia, Amapá, Amz, Pará, Ron, Ror,

<i>rassii</i> Ramírez-Pérez, 1980 [Venezuela]	Toc); Bolivia, Colombia, Ecuador, French Guiana,
<i>torrealbai</i> Ramírez-Pérez, 1980 [Venezuela]	Guyana, Suriname, Venezuela
<i>rassi</i> , <i>rassii</i> : incorrect subsequent spellings	
<i>cuadrifidum</i> : incorrect subsequent spelling	
<b>ulyssesi</b> (Py-Daniel & Coscarón, 2001) .....	Brazil (Amazonas, Ron)
‘6-B1’ Dellome Filho, 1978 (thesis) ( <i>Simulium</i> )	
‘A’ Hamada, 1997 (thesis) ( <i>Simulium</i> ) .....	Brazil (Amazonas)

#### QUADRIVITTATUM species-group

<b>quadrivittatum</b> Loew, 1862 .....	Cuba; Belize, Colombia, Costa Rica, Dominican
<i>mallochi</i> (Enderlein, 1925) [Costa Rica]	Republic, Ecuador, Guatemala, Jamaica, Mexico (Ch,
<i>fairchildi</i> Vargas, 1942 [Panama]	Cp, Ox, Pu, Vz), Nicaragua, Panama, Puerto Rico,
<i>benjamini</i> Dalmat, 1952 [Guatemala]	Venezuela
<i>fairchild</i> : incorrect subsequent spelling	
<i>quadrivittatum</i> , <i>quadrivittatum</i> : incorrect subsequent spellings	
[ <i>minusculum</i> : Bradt, 1932, not Lutz]	
[ <i>haematopotum</i> : Fairchild, 1940, not Malloch]	
[ <i>metallicum</i> : Malloch, 1914, not Bellardi]	

#### *Psaroniocompsa* species unplaced to group

<b>catarinense</b> Pinto, 1932 [1931] .....	Brazil (Santa Catarina)
<b>fuliginis</b> Field, 1969 .....	Panama
<b>lurybayae</b> Smart, 1944 (subst. name) .....	Bolivia
<i>angustifrons</i> (Enderlein, 1934) [1933] (preocc.)	
<i>luribayae</i> : incorrect subsequent spelling	
<b>parimaense</b> Ramírez-Pérez, Yarzábal, Takaoka, Tada &	
Ramírez, 1987 [1986] .....	Venezuela

#### Subgenus **PSILOPELMIA** Enderlein§§§§

**PSILOPELMIA** Enderlein, 1934 [1933] (as genus)\*\*\*\*. Type species: *escomeli*, as *rufidorsum* (original designation)  
*ECTEMNASPIS* Enderlein, 1934 [1933] (as genus). Type species: *bicoloratum*, as *macca* (original designation)  
*LANEA* Vargas, Martínez Palacios & Díaz Nájera, 1946 (as subgenus of *Simulium*). Type species: *haematopotum*  
(original designation)

#### BICOLORATUM species-group

<b>antonii</b> Wygodzinsky, 1953 .....	Bolivia
<b>arcabucense</b> Coscarón, 1990 .....	Colombia
<b>bicoloratum</b> Malloch, 1912 .....	Peru (Lima, Cuzco, Huá); Bolivia, Colombia, Ecuador,
<i>gaudeatum</i> Knab, 1914 [Peru (‘Verrugas Canyon’)]	Venezuela. [‘USA (NY)’ error]
<i>macca</i> (Enderlein, 1934) [Peru (Cuzco)]	
<i>macca</i> (Enderlein, 1934) [1933] (preocc.) [Peru (? state)]	
<i>molli</i> Vargas, 1943 (subst. name)	
<b>bicornutum</b> Wygodzinsky & Coscarón, 1982 .....	Colombia
<b>cormonsi</b> Wygodzinsky, 1971 .....	Venezuela; Colombia
<b>furcillatum</b> Wygodzinsky & Coscarón, 1982 .....	Colombia
<b>ignescens</b> Roubaud, 1906 .....	Ecuador; Bolivia, Colombia, Peru (Cuzco), Venezuela
‘A’ Duque, 1980 (thesis) (cytoform) .....	Colombia
‘B’ Duque, 1980 (thesis) (cytoform) .....	Colombia
‘D’ Colorado-Garzón, Adler, García, Muñoz de Hoyos,	
Bueno & Matta, 2017 (cytoform) .....	Colombia
<i>dignescens</i> , <i>igniscens</i> : incorrect subsequent spellings	
<b>jaimeramirezi</b> Wygodzinsky, 1971 .....	Venezuela; Ecuador
<b>machetorum</b> Mantilla, Moncada, Matta & Adler, 2013 .....	Colombia

<b>pautense</b> Coscarón & Takaoka, 1989 .....	Ecuador; Colombia
<b>pifanoi</b> Ramírez-Pérez, 1971 .....	Venezuela; Colombia
<b>roquemayu</b> Coscarón, 1985 [1984] .....	Bolivia
<b>rubiginosum</b> (Enderlein, 1934) [1933] .....	Bolivia; Argentina (BA, Jujuy, Men, Salta, SJ, Tuc), Peru
[ <i>ignescens</i> : Wygodzinsky, 1951 (part), 1953 / Coscarón & Wygodzinsky, 1960, not Roubaud]	(Cuzco)
<b>tolimaense</b> Coscarón, 1985 [1984] (subst. name) .....	Colombia
<i>simplex</i> Wygodzinsky & Coscarón, 1982 (preocc.)	
<b>tunja</b> Coscarón, 1990 .....	Colombia
‘B’ Moncada & Bueno, 1977 (undergraduate thesis)	
‘C’ Duque, Muñoz de Hoyos & Rothfels, 1988 ( <i>Simulium</i> sp.)	
‘B’ Colorado-Garzón, Adler, García, Muñoz de Hoyos, Bueno & Matta, 2017 (cytoform) .....	Colombia
‘A’ Lewis & Lee-Potter, 1964 ( <i>Simulium</i> sp.) .....	Colombia
‘B’ Lewis & Lee-Potter, 1964 ( <i>Simulium</i> sp.) .....	Colombia

#### CALLIDUM species-group

<b>callidum</b> (Dyar & Shannon, 1927) .....	Mexico (Veracruz, Ch, Co, Gu, Hi, Mi, Mo, MS, Ox, Pu, SLP); Belize, Costa Rica, El Salvador, Guatemala, Panama, Colombia (?), Venezuela (?)
<i>mooseri</i> (Dampf, 1927) [Mexico (Oaxaca)]	
<i>rufidorsum</i> (Enderlein, 1936) (preocc.) [Costa Rica]	
<i>costaricense</i> Smart, 1944 (subst. name)	
<i>costarricense</i> Vargas, 1945 (subst. name, as <i>costarricense</i> ) [ <i>ochraceum</i> : Malloch, 1914, not Walker]	
<b>panamense</b> Fairchild, 1940 .....	Panama; Costa Rica
<b>pseudocallidum</b> Díaz Nájera, 1965 .....	Mexico (Mexico State, Ch, Ox); Costa Rica
<b>travisi</b> Vargas, Vargas & Ramírez-Pérez, 1993 .....	Costa Rica

#### DINELLII species-group

<b>dinellii</b> (Joan, 1912) .....	Argentina (Tucumán, Cat, Jujuy, LR, Salta, SDE); Bolivia, Brazil (ES, MGrS, RGS, RJ, SC, SP), Colombia, Ecuador, Peru (Apurimac, ‘Rio Charape’), Venezuela
<i>miniatum</i> (Enderlein, 1934) [1933] (1) [Bolivia]	
<i>miniatum</i> (Enderlein, 1934) (2) (preocc.) [Colombia]	
<i>martinezi</i> Vargas, 1943 (subst. name, for <i>miniatum</i> (2))	
<i>dinelli</i> : incorrect subsequent spelling [ <i>ochraceum</i> : Lane & Porto, 1939 / Lane & Vulcano, 1943, not Walker]	
<b>nuneztovari</b> Ramírez-Pérez, Rassi & Ramírez, 1977 .....	Venezuela
<b>ochraceum</b> Walker, 1861 (complex) .....	Mexico (Chiapas [neotype], Ox, Vz); Belize, Brazil (Amz, ES, RJ, Ror, SP), Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador (incl. Galapagos Islands [San Cristobal]), French Guiana, Guadeloupe, Guatemala, Jamaica, Montserrat, Panama, Peru (Cuzco, Huá), Puerto Rico, Trinidad, Venezuela, Virgin Islands (Saint Croix), Dominica (?)
<i>bipunctatum</i> Malloch, 1912 [Peru (‘Rio Charape’)]	
<i>antillarum</i> Jennings, 1915 [Virgin Islands (Saint Croix)]*	
<i>scutellatum</i> Lane & Porto, 1940 [in Porto] [Colombia]	
<i>wolcottii</i> Fox, 1953 [Puerto Rico]	
<i>pseudoantillarum</i> Ramírez-Pérez & Vulcano, 1973 [Venezuela]	
‘D’ Lewis, 1963 ( <i>Simulium</i> sp.) [= <i>pseudoantillarum</i> ]	
‘A’ Hirai & Uemoto, 1983 (cytoform, typical) .....	Guatemala, Mexico (Ch)
‘B’ Hirai & Uemoto, 1983 (cytoform) .....	Mexico (Ch)
‘C’ Hirai & Uemoto, 1983 (cytoform) .....	Guatemala, Mexico (Ch)
‘nr. <i>ochraceum</i> ’ Hernández-Triana, 2002 (morphoform) .....	Belize
<i>ochraceum</i> , <i>ocraccum</i> , <i>onchraceum</i> : incorrect subsequent spellings	
<b>shewellianum</b> Coscarón, 1985 [1984] .....	Ecuador; Brazil (SP), Colombia

#### ESCOMELI species-group

<b>bivittatum</b> Malloch, 1914 .....	USA (New Mexico, Ari, Col, Idaho, Mon, Neb, Ore, SD, Texas, Utah, Was, Wyo); Canada (Alb, Sask), Mexico (Ca, Cl, SLP, Ta, Vz, Za)
<i>idahoense</i> Twinn, 1938 [USA (Idaho)]	
‘A’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
‘B’ Pruess, Adams, Parsons, Zhu & Powers, 2000 (molecular form)	
<b>bobpetersoni</b> Coscarón, Ibáñez-Bernal & Coscarón-Arias, 1996 .....	Mexico (Jalisco, Ag, Ca, Ch, Cl, Co, Du, Gj, Gu, Mi, Mo,

[ <i>trivittatum</i> (part): authors (Guatemala, Mexico), not Malloch]	NL, Ox, Pu, SLP, Ta, Vz); Guatemala
<b>clarum</b> (Dyar & Shannon, 1927) .....	USA (California)
<i>clarium</i> : incorrect spelling (Fig. 52 caption in original description)	
[ <i>bivittatum</i> (part): authors (California), not Malloch]	
[ <i>trivittatum</i> (part): authors (California), not Malloch]	
<b>dandrettai</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Mexico State, FD, Ox, Vz)
‘near <i>dandrettai</i> ’ Coscarón <i>et al.</i> , 1996 ( <i>Simulium</i> sp.)*	
<b>downsi</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Chiapas, Ox); El Salvador, Guatemala,
[ <i>ochraceum</i> : Hoffmann, 1931, not Walker]	Nicaragua, Venezuela
<b>dugesi</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Tamaulipas, NL, SLP); Guatemala
<i>dugesi</i> : incorrect subsequent spelling	
<b>escomeli</b> Roubaud, 1909 .....	Peru (Arequipa, Anc, Lima, Tacna); Chile (Tar),
<i>rufidorsum</i> (Enderlein, 1934) [1933] [Peru (‘Hoch-Peru’)]	Colombia, Ecuador
<i>rufidorsum</i> : incorrect subsequent spelling	
[ <i>samboni</i> : Dampf, 1943, not Jennings]	
<b>gonzalezherrejni</b> Díaz Nájera, 1969 .....	Mexico (Zacatecas, Ag)
<i>jerezense</i> Díaz Nájera, 1969 [Mexico (Zacatecas)]	
<i>letrasense</i> Díaz Nájera, 1969 [Mexico (Aguascalientes)]	
<i>netтели</i> Díaz Nájera, 1969 [Mexico (Aguascalientes)]	
<i>olimpicum</i> Díaz Nájera, 1969 [Mexico (Aguascalientes)]	
<i>vulcanoae</i> Díaz Nájera, 1969 [Mexico (Aguascalientes)]	
<i>olympicus</i> : incorrect subsequent spelling	
<b>griseum</b> Coquillett, 1898 .....	USA (Colorado, Cal, Mon, Neb, Nev, NM, SD, Utah,
‘undet.’ Cameron, 1922 ( <i>Simulium</i> sp.)	Wyo); Canada (Alb, Sask)
<i>griseum</i> : incorrect subsequent spelling	
<b>haematopotum</b> Malloch, 1914 .....	Mexico (Veracruz, Ch, Co, Gu, Ja, Mi, Mo, Na, Ox, Pu,
<i>pseudohaematopotum</i> Hoffmann, 1930 [Mexico (Chiapas)]	Si, Tb); Belize, Colombia, Costa Rica, Cuba,
<i>marathrumi</i> Fairchild, 1940 [Panama]	Dominican Republic, El Salvador, Guatemala,
<i>boydi</i> De León, 1945 [Guatemala]	Honduras, Nicaragua, Panama, Puerto Rico, Suriname,
<i>haematopotum</i> : incorrect subsequent spelling	Venezuela. [‘Guyana’ error]
<b>iracouboense</b> Floch & Abonnenc, 1946 .....	French Guiana; Brazil (Amapá, Amz, Pará, Ror),
<i>sucamense</i> Nunes de Mello, 1974 [Brazil (Roraima)]	Suriname, Venezuela
<i>santaelenae</i> Ramírez-Pérez & Peterson, 1981 [Venezuela]	
<b>labellei</b> Peterson, 1993 .....	USA (Texas); Mexico [no locality]
<b>longithallum</b> Díaz Nájera & Vulcano, 1962 [1961] .....	Mexico (Morelos, Ja); USA (Ari)
<b>mangabeirai</b> Vargas, 1945 .....	Mexico (Mexico State, FD, Mi, Mo, Vz); Panama
<b>mediovittatum</b> Knab, 1915 .....	USA (Texas); Mexico (Ca, Cl, SLP, Ta, Vz)
<i>mediovittatum</i> : incorrect subsequent spelling	
<b>meyerae</b> Moulton & Adler, 2002 .....	USA (New Mexico)
<b>notatum</b> Adams, 1904 .....	USA (Arizona). [Other state records error]
<b>ochoi</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Veracruz)
<b>robynae</b> Peterson, 1993 .....	USA (Texas, NM)
‘1’ Jones, Hayes, Potter & Francy, 1977 ( <i>Simulium</i> sp.)	
[ <i>notatum</i> (part): authors, not Adams]	
<b>samboni</b> Jennings, 1915 .....	Panama; Belize, Colombia, Costa Rica, El Salvador,
<i>colvini</i> Dalmat, 1952 [Guatemala]	Guatemala, Honduras, Mexico (Ch, Ox, Tb, Vz),
‘E’ Lewis, 1963 ( <i>Simulium</i> sp.)	Nicaragua, Trinidad, Venezuela
<b>trivittatum</b> Malloch, 1914 .....	Mexico (Tamaulipas, Cl); Guatemala, USA (Okl, Texas)
<i>distinctum</i> Malloch, 1913 (preocc.) [USA (Texas)]	
<i>mazzottii</i> Díaz Nájera, 1981 [1979] [Mexico (Coahuila)]	
<b>venator</b> Dyar & Shannon, 1927 .....	USA (Nevada, Cal, Idaho, Mon, Ore, Utah, Was, Wyo)
<i>beameri</i> Stains & Knowlton, 1943 [USA (California)]	
[ <i>mediovittatum</i> : authors (other than Texas), not Knab]	
<b>veracruzianum</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Veracruz, Ca, Ch, Cl, Du, Ja, Mi, Mo, MS, Na,
<i>veracruzianum</i> : incorrect subsequent spelling	Ox); Belize, Guatemala
<b>zempoalense</b> Vargas, Martínez Palacios & Díaz Nájera, 1946 .....	Mexico (Morelos, Du, MS, Ox, Vz)
<i>zenpoalense</i> : incorrect subsequent spelling	

## PERFLAVUM species-group

<b>ignacioi</b> Ramírez-Pérez & Vulcano, 1973****	Venezuela
<b>kabanayense</b> Ramírez-Pérez & Vulcano, 1973	Venezuela; Guyana
<i>kavanayense</i> : incorrect subsequent spelling	
<b>maroniense</b> Floch & Abonnenc, 1946 (complex)	French Guiana; Brazil (Amapá, Amz, MGr, Pará, Ror), Guyana, Venezuela
<i>wuayaraka</i> Ortiz, 1957 [Venezuela]	
‘A’ Hamada & Adler, 1999 (cytoform)	Brazil (Ror)
‘B’ Hamada & Adler, 1999 (cytoform)	Brazil (Ror)
‘C’ Hamada & Adler, 1999 (cytoform)	Brazil (Amapá, Pará)
‘D’ Hamada & Adler, 1999 (cytoform)	Brazil (Amz)
<i>marionense</i> : incorrect subsequent spelling	
[ <i>rubrithorax</i> : Smart, 1940, not Lutz]	
<b>perflavum</b> Roubaud, 1906	Brazil (São Paulo, Acre, Amapá, Amz, Bahía, Ceará, ES, Goiás, MG, MGr, MGrS, Par, Pará, Per, RGS, RJ, Ron, Ror, SC, Toc); Argentina (Cos, For, Mis), Guyana, Paraguay, Venezuela
<i>varians</i> Lutz, 1909 [Brazil (São Paulo)]	
<i>antunesi</i> Lane & Porto, 1940 [Brazil (Bahía)]	
<i>mauense</i> Nunes de Mello, 1974 [Brazil (Roraima)]	
<i>antenusi</i> : incorrect subsequent spelling	
<b>rorotaense</b> Floch & Abonnenc, 1946	French Guiana; Brazil (Amapá, Amz, MGr, Pará, Ron), Colombia, Guyana, Venezuela
<i>fulvinotum</i> Cerqueira & Nunes de Mello, 1967 [in Cerqueira [Brazil (Amazonas)]]*	
‘18-D’ Dellome Filho, 1978 (thesis) ( <i>Simulium</i> )	
<i>wayaraka</i> : incorrect subsequent spelling	
<b>suarezi</b> Ramírez-Pérez, Rassi & Ramírez, 1977	Venezuela; Brazil (Amz, Ror)
<b>trombetense</b> Hamada, Py-Daniel & Adler, 1999 [1998]	
[in Hamada & Adler] ..... Brazil (Amazonas, Amapá, Pará, Ror); French Guiana	
‘X’ Hamada, Adler & McCreddie, 1996 ( <i>Simulium</i> sp.)	
‘nr. <i>kabanayense</i> ’ (Pessoa, Velásquez & Py-Daniel, 2005) ( <i>Simulium</i> sp.)	Brazil (Ceará)

## ROMANAI species-group

<b>albanense</b> Coscarón, 1990	Colombia
<b>anaimense</b> Coscarón & Muñoz de Hoyos, 1995	Colombia
<b>gabaldoni</b> Ramírez-Pérez, 1971	Venezuela; Colombia
‘B’ Lewis, 1963 ( <i>Simulium</i> sp.)	
<b>lutzianum</b> Pinto, 1932 [1931] (complex)	Venezuela; Argentina (Mis), Bolivia, Brazil (Amz, ES, Goiás, Par, RGS, Ror, SC, SP), Colombia, Costa Rica, Ecuador, Guyana, Panama, Peru (Cuzco, Huá, Junín)
<i>lewisi</i> Ramírez-Pérez, 1971 [Venezuela]	
<i>alirioi</i> Ramírez-Pérez & Vulcano, 1973 [Venezuela]	
<i>iguazuense</i> Coscarón, 1976 [Argentina (Misiones)]	
‘A’ Lewis, 1963 ( <i>Simulium</i> sp.)	
‘C’ Lewis, 1963 ( <i>Simulium</i> sp.)	
‘A1’ Sawyer, 1991 ( <i>lutzianum/lewisi</i> cytoform)	Ecuador
‘A2’ Sawyer, 1991 ( <i>lutzianum/lewisi</i> cytoform)	Ecuador
‘B’ Sawyer, 1991 ( <i>lutzianum/lewisi</i> cytoform)	Ecuador
‘C’ Sawyer, 1991 ( <i>lutzianum/lewisi</i> cytoform)	Ecuador
‘nr. <i>lutzianum</i> ’ Hernández-Triana, Prosser, Rodríguez-Pérez, Chaverri, Hebert, Gregory, 2014 ( <i>Simulium</i> sp.) ..... Ecuador	
<b>mayachuspi</b> Coscarón, 1990	Peru (Junín); Ecuador
<b>romanai</b> Wygodzinsky, 1951 (complex)	Argentina (Tucumán, Cat, Cór, Jujuy, LR, Salta, SJ); Bolivia, Colombia, Ecuador, Peru (Junín), Venezuela
<i>adolfolutzi</i> Wygodzinsky, 1951 [Argentina (Tucumán)]	
‘A’ Moreno-R., 1997 (thesis) (cytoform) ..... Colombia	
‘B’ Moreno-R., 1997 (thesis) (cytoform) ..... Argentina	
<b>wolffhugeli</b> (Enderlein, 1922)	Argentina (Tucumán, BA, Cat, Chu, Cór, Jujuy, LP, LR, Men, Nqn, RN, Salta, SC, SJ, SL); Bolivia
<i>haarupianum</i> (Enderlein, 1936) [Argentina (Mendoza)]	
<i>wolffhugeli</i> : incorrect subsequent spelling	
‘1’ Hernández-Triana, Chaverri, Rodríguez-Pérez, Prosser, Hebert, Gregory & Johnson, 2015 ( <i>Simulium</i> sp.)	Mexico (Federal District)

VIRESCENS species-group

**virescens** Hamada, Silva & Pereira, 2012 ..... Brazil (Bahía, MGrS)

*Psilopelmia* species unplaced to group

**flavipictum** Knab, 1914 ..... Peru ('Rio Charape')

*flavopictum*: incorrect subsequent spelling

**jacobsi** Dalmat, 1953 ..... Guatemala

**Subgenus PSILOZIA Enderlein**

**PSILOZIA** Enderlein, 1936 (as genus). Type species: *vittatum*, as *groenlandica* (original designation)

*NEOSIMULIUM* Rubtsov, 1940 (unav., *nomen nudum*)

*NEOSIMULIUM* Vargas, Martínez Palacios & Díaz Nájera, 1946 (as subgenus of *Simulium*). Type species: *vittatum* (original designation)

*PSILOSIA*: incorrect subsequent spelling

**argus** Williston, 1893 ..... USA (California, Ari, Col, Idaho, Kan, Neb, Nev, NM,

*obtusum* (Dyar & Shannon, 1927) [USA (California)]

*kamloopsi* Hearle, 1932 [Canada (British Columbia)]

*hearlei* Twinn, 1938 [USA (Utah)]

*arguo*: incorrect subsequent spelling

*haerlei*: incorrect subsequent spelling

*trivittatum* (part): Peterson, 1993 (Arizona & New Mexico),  
not Malloch]

Ore, Texas, Utah, Was, Wyo); Canada (BC, NWT),  
Mexico (FD, Mo, NL, Ox, Pu, SLP, So, Vz)

**enciso** Vargas & Díaz Nájera, 1949 ..... Mexico (Hidalgo, Mi); USA (Ari, Cal, Idaho, Nev, NM,  
Texas)

**infernale** Adler, Currie & Wood, 2004 ..... USA (California)

**tribulatum** Lugger, 1897 [1896] ..... USA (Minnesota, Ala, Alaska, Ari, Ark, Cal, Col, Del,

*glaucum* Coquillett, 1902 [USA (Missouri)]

*venustoides* Hart, 1912 [*in* Forbes] [USA (Illinois)]

'IIIL-1' Rothfels & Featherston, 1981 (*vittatum* cytoform)

'IIIL-2': Sutcliffe & McIver, 1987 (lapsus for 'IIIL-1')

*glacum*: incorrect subsequent spelling

*tribuatum*: incorrect subsequent spelling

*venustoide*: incorrect subsequent spelling

Flo, Geo, Idaho, Ill, Ind, Iowa, Kan, Ken, Lou, Maine,  
Mar, Mas, Mic, Misp, Misr, Mon, NC, Neb, Nev, NH,  
NJ, NM, NY, Ohio, Okl, Pen, SC, Ten, Texas, Utah,  
Vir, Was, Wis, WV, Wyo); Canada (Alb, Man, NWT,  
Ont, Que, Sask)

**vittatum** Zetterstedt, 1838 ..... Greenland; Canada (Alb, BC incl. Queen Charlotte

*vittata* Zetterstedt, 1837 (unav., *nomen nudum*)

*nasale* Gistel, 1848 / Gistel & Bromme, 1850 (unav., *nomen nudum*)

*groenlandicum* (Enderlein, 1936) (preocc.) [Greenland]

*asakakae* Smart, 1944 (subst. name)

'IS-7' Rothfels & Featherston, 1981 (cytoform)

'/?' Tang, Pruess, Cupp & Unnasch, 1996 (molecular form)

'Iceland' Pruess, Adams, Parsons, Zhu & Powers,  
2000 (molecular form)

'X<sub>0</sub>Y<sub>0</sub>' Adler, Giberson & Purcell, 2005 (cytoform)

*dahlgruni*: Rubtsov & Yankovsky, 1988, not Enderlein]

Islands, Man, Nfld, Nun, NWT, PEI, Ont, Que incl.  
Magdalen Islands, Sask, Yukon), Faeroe Islands,  
Iceland, Mexico (FD, Ta), USA (Alaska, Ari, Ark, Cal,  
Col, Idaho, Iowa, Maine, Mar, Mic, Min, Misr, Mon,  
Neb, Nev, NH, NM, NY, Ohio, Ore, Pen, SC, Utah,  
Ver, Vir, Was, Wis, WV, Wyo)

**Subgenus PTERNASPATHA Enderlein**

**PTERNASPATHA** Enderlein, 1930 (as genus). Type species: *nigristrigatum* (original designation)

*DASYPELMOZA* Enderlein, 1934 [1933] (as genus). Type species: *annulatum*, as *varipes* (original designation)

*ACROPOGON* Enderlein, 1934 [1933] (as genus). Type species: *barbatipes* (original designation)

NEMORALE species-group

<b>albicinctum</b> (Enderlein, 1934) [1933] .....	Peru ('Hoch-Peru')
<b>albilineatum</b> (Enderlein, 1936) .....	Peru (Cuzco, Junín)
'nr. <i>albilineatum</i> ' Hernández-Triana, Prosser, Rodríguez-Pérez, Chaverri, Hebert, Gregory, 2014 ( <i>Simulium</i> sp.)	
<b>annulatum</b> Philippi, 1865 .....	Chile (Santiago, Ara, BB, LL, Maule); Argentina (Chu, Nqn, RN)
<i>varipes</i> Philippi, 1865 [Chile (Valdivia)]	
<b>barbatipes</b> (Enderlein, 1934) [1933] .....	Bolivia; Argentina (Jujuy, Men, Nqn, Salta, SJ, Tuc), Chile (O'H, San, Val), Peru (Cuzco, Junín, Puno)
<b>bordai</b> Coscarón & Wygodzinsky, 1972 .....	Bolivia
<b>caprii</b> Wygodzinsky & Coscarón, 1967 .....	Argentina (Chubut)
<b>hectorvargasi</b> Coscarón & Wygodzinsky, 1972 .....	Chile (Tarapacá, O'H)
<i>hectorvargas</i> : incorrect subsequent spelling	
<b>herreri</b> Wygodzinsky & Coscarón, 1967 .....	Peru (Lima)
<b>luchoi</b> Coscarón & Wygodzinsky, 1972 .....	Chile (Tarapacá)
<b>nemorale</b> Edwards, 1931 .....	Argentina (Rio Negro, Chu, Nqn, TDF); Chile (Aisén)
'nr. <i>nemorale</i> ' Hernández-Triana, De Oca, Prosser, Hebert, Gregory & McMurtrie, 2017 ( <i>Simulium</i> sp.)	
<b>philippii</b> Coscarón, 1976 .....	Chile (O'Higgins, Tar)
<b>prodexargenteum</b> (Enderlein, 1936) .....	Peru ('Hoch-Peru'); Argentina (Jujuy, Salta), Bolivia
<b>quechuanum</b> Coscarón & Wygodzinsky, 1972 .....	Chile (Tarapacá); Argentina (Jujuy, Salta, SJ)
<b>schoenemanni</b> (Enderlein, 1934) [1933] .....	Chile (Maule)
<b>stelliferum</b> Coscarón & Wygodzinsky, 1972 .....	Chile (Coquimbo, Ata, O'H, San, Tar, Val); Argentina (RN)
[ <i>schoenemanni</i> : Wygodzinsky & Coscarón, 1967, not Enderlein]	
<b>yacuchuspi</b> Wygodzinsky & Coscarón, 1967 .....	Peru (Junín)

NIGRISTRIGATUM species-group

<b>cotopaxi</b> Wygodzinsky & Coscarón, 1979 .....	Ecuador
<i>colopaxi</i> : incorrect subsequent spelling	
<b>deagostinii</b> Coscarón & Wygodzinsky, 1962 .....	Argentina (Tierra del Fuego, Chu, SC)
<b>diamantinum</b> Coscarón & Coscarón-Arias, 1996 .....	Argentina (Mendoza, Nqn, SJ)
<b>dureti</b> Wygodzinsky & Coscarón, 1967 .....	Argentina (Salta, Jujuy); Bolivia
<b>horcochuspi</b> Coscarón & Wygodzinsky, 1972 .....	Argentina (Jujuy)
<i>horocochuspi</i> : incorrect original spelling (alternative)	
<b>limay</b> Wygodzinsky, 1958 .....	Argentina (Neuquén, Chu, Men, RN, SC, SJ)
<i>walterwittmeri</i> Wygodzinsky, 1958 [Argentina (Neuquén)]	
<i>huemul</i> Wygodzinsky & Coscarón, 1967 [Argentina (Chubut)]	
<b>nigristrigatum</b> (Enderlein, 1930) .....	Argentina (Neuquén, BA, Chu, Men, RN, TDF); Chile (Mag)
<i>edwardsi</i> (Enderlein, 1934) [1933] [Argentina (Rio Negro)]	
<i>bachmanni</i> Wygodzinsky & Coscarón, 1967 [Argentina (Rio Negro)]	
<b>pichi</b> Wygodzinsky & Coscarón, 1967 .....	Argentina (Santa Cruz, Chu)
<b>pulchrum</b> Philippi, 1865 .....	Chile (Santiago, Ara, BB, Maule, O'H, Val)
<b>quimbayium</b> Mantilla, Moncada, Matta & Adler, 2013 .....	Colombia
<b>simile</b> Silva Figueroa, 1917 .....	Chile (Santiago, BB, Coq, Tar); Argentina (Chu, Nqn, RN)
<i>punctativentre</i> (Enderlein, 1936) [Chile ('Cortoderal')]	
<i>figueroa</i> Smart, 1944 (unnecessary subst. name, for <i>simile</i> )	
<i>illiesi</i> Wygodzinsky & Coscarón, 1967 [Argentina (Chubut)]	
[ <i>barbatipes</i> : Vargas & Díaz Nájera, 1953 (part), not Enderlein]	
<b>strigidorsum</b> (Enderlein, 1934) [1933] .....	Peru (Puno); Argentina (Chu, Men)

Subgenus RUBZOVIA Petrova

**RUBZOVIA** Petrova, 1983 (as genus). Type species: *lamachi* (original designation)

*CRENOSIMULIUM* Giudicelli & Thiery, 1985 (as subgenus of *Simulium*). Type species: *lamachi* (original designation)

<b>joanae</b> Seitz, Zwick & Adler, 2012 .....	Madeira
<b>knidirii</b> Giudicelli & Thiery, 1985 .....	Morocco
<b>lamachi</b> Doby & David, 1960 .....	France; Germany, Morocco, Spain
<i>lamachei</i> Beaucournu-Saguez, 1972 (unnecessary emendation)	
<b>paraloutetense</b> Crosskey, 1988 .....	Canary Islands (Gran Canaria, Gomera)
<b>vantshi</b> Petrova, 1983 .....	Tajikistan

### Subgenus SCHOENBAUERIA Enderlein

**SCHOENBAUERIA** Enderlein, 1921 (as genus). Type species: *nigrum*, as *matthiesseni* (original designation)

*MIODASIA* Enderlein, 1936 (as genus). Type species: *nigrum*, as *opalinipennis* (original designation)

*GALLIPODUS* Usova & Reva, 2000 (as genus). Type species: *raastadi* (original designation)

<b>brachyarthrum</b> (Rubtsov, 1956) .....	Siberia (WS/ES [Yenisei River], FE)
<i>brachyathra</i> , <i>brachyarthran</i> , <i>brachyartra</i> :	
incorrect subsequent spellings	
<b>flavoantennatum</b> Rubtsov, 1940 .....	China (Xinjiang)
<i>favoantennatum</i> : incorrect subsequent spelling	
<b>fulculatum</b> Shewell, 1952 .....	Canada (Manitoba, Alb, Lab, Nfld, Nun, NWT, Ont,
‘B’ Twinn, Hocking, McDuffie & Cross, 1948 ( <i>Eusimulium</i> sp.)	Que, Sask, Yukon); USA (Alaska, Maine); Siberia (ES)
<b>giganteum</b> Rubtsov, 1940 .....	Siberia (WS, ES); Canada (Nun), Russia (NR)
<i>gigantean</i> , <i>gigiantea</i> : incorrect subsequent spellings	
<b>ivashchenkoi</b> (Yankovsky, 1996) (subst. name) .....	Russia (Ivanovo CR)
<i>chelevini</i> (Ivashchenko, 1978) (preocc.)	
<b>ivdelense</b> (Yankovsky, 2000) .....	Siberia (Sverdlovskaya WS)
<b>nigrum</b> (Meigen, 1804) .....	Germany; Belarus, China (Xi), Lithuania, Poland,
<i>matthiesseni</i> (Enderlein, 1921 [April]) (available) [Russia (Volgograd)]	Romania, Russia (CR, SR), Ukraine, Uzbekistan
<i>peetsi</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	
<i>peetsi</i> (Enderlein, 1921 [June]) (available) [Germany]	
<i>behningi</i> Enderlein, 1926 [Russia (Saratovskaya)]	
<i>opalinipenne</i> (Enderlein, 1936) [Germany]	
<i>mathiesseni</i> , <i>matthiesseni</i> , <i>matthissoni</i> :	
incorrect subsequent spellings	
<b>parapusillum</b> (Rubtsov, 1956) .....	Siberia (Yakutskaya ES)
<b>patrushevae</b> (Ivashchenko, 1978) .....	Russia (Ivanovo CR)
<b>polyhookum</b> Chen, Wu & Huang, 2016 [ <i>in</i> Chen]§ .....	China (Jilin)
<b>pseudopusillum</b> (Rubtsov, 1956) .....	Kazakhstan
<b>pusillum</b> Fries, 1824 .....	Finland; Belarus, Czech Republic, Estonia, Latvia,
<i>pygmaea</i> Zetterstedt, 1837 (unav., <i>nomen nudum</i> )	Lithuania, Mongolia, Norway, Poland, Russia (CR,
<i>pygmaeum</i> Zetterstedt, 1838 [Sweden]	KM), Siberia (ES, FE, WS), Sweden, Ukraine
<i>arcticum</i> (Enderlein, 1936) (preocc.) [Norway]	
<i>fridolini</i> Rubtsov, 1939 (unav., <i>nomen nudum</i> )	
<i>fridolini</i> Rubtsov, 1940 [Russia (‘northern Urals’)]	
<i>roevdeae</i> Smart, 1944 (subst. name)	
<i>pussilla</i> : incorrect subsequent spelling	
<i>pygmaeum</i> , <i>pygmeum</i> : incorrect subsequent spellings	
<i>rövdæe</i> : incorrect subsequent spelling	
<b>raastadi</b> (Usova & Reva, 2000) .....	Ukraine
<b>rangiferinum</b> (Rubtsov, 1956) .....	Russia (Archangel NR); Siberia (ES, WS)
<i>rangigerina</i> : incorrect subsequent spelling	
<b>rubzovium</b> (Ivashchenko, 1978) .....	Russia (Ivanovo CR)
<b>samarkandicum</b> (Yankovsky, 2000) .....	Uzbekistan
<b>subpusillum</b> Rubtsov, 1940† .....	Siberia (Irkutskaya ES [neotype], WS); Canada (Nun,
‘2’ Malloch, 1919 ( <i>Simulium</i> sp.)	NWT), Finland, Kazakhstan, Russia (CR, NR),
‘near <i>subpusillum</i> ’ Smith, 1970 (thesis) ( <i>Simulium</i> sp.)	Sweden, USA (Alaska), Ukraine (?)
‘near <i>subpusillum</i> (#2)’ Smith, 1970 (thesis) ( <i>Simulium</i> sp.)	
<i>subpusills</i> , <i>subpussila</i> , <i>subpysilla</i> : incorrect subsequent spellings	



- [*annulitarse*: Carlsson, 1962 / Carlsson *et al.*, 1977 / Jensen, 1997, not Zetterstedt]
- [*pusillum*: Puri, 1926 / Bodrova, 1977, not Fries]
- suchomlinae** (Usova & Reva, 1995) ..... Ukraine
- tibiale* (Tan & Chow, 1976) [*in* Lee, Tan, Zhou & Wang] (secondary homonym of *tibiale* Macquart, 1834, but no available subst. name) ..... China (Beijing)
- tibilis*, *tibiulis*, *titiale*: incorrect subsequent spellings
- transbaikalicum** Rubtsov, 1940 ..... Siberia (Buryatskaya ES)
- transbaikalicum*: incorrect subsequent spelling
- tssharae** (Yankovsky, 1982) ..... Siberia (Chitinskaya ES)
- tschernovskii** (Rubtsov, 1956) ..... Siberia (Baikal ES, WS)
- chernovskii*: incorrect subsequent spelling
- zinadae** Crosskey, 1997 [*in* Crosskey & Howard] (subst. name) ..... Siberia (Khabarovsk FE)
- ussovae* (Bodrova, 1989) (preocc.)
- ‘Z’ Adler, Currie & Wood, 2004 (*Simulium* sp.) ..... USA (Alaska)
- ‘near *giganteum*’ Currie, 1997 (*Simulium* sp.)

### Subgenus SHEWELLOMYIA Peterson

- SHEWELLOMYIA** Peterson, 1975 (subst. name for *Hagenomyia* Shewell; therefore, same type species)
- HAGENOMYIA* Shewell, 1959 (as subgenus of *Simulium*) (preocc.). Type species: *pictipes* (original designation)
- claricentrum** Adler, 1990 ..... USA (Pennsylvania, Ark, Misr, NY, Okl, Ten)
- ‘a’ [also ‘A’] Reisen, 1974 (*Simulium* sp.)
- ‘A’ Bedo, 1975 (*pictipes* cytoform)
- innoxium** Comstock & Comstock, 1895 ..... USA (New York, Ala, Geo, Ken, Mar, Mic, Min, Misr, NC, Pen, SC, Ten, Vir, WV); Canada (Ont, Que)
- aldrichianum* (Enderlein, 1936) [USA (New York)]
- ‘B’ Bedo, 1975 (*pictipes* cytoform)
- [*pictipes*: authors, not Hagen]
- pictipes** Hagen, 1880 ..... USA (New York, Mic, Min); Canada (Alb, Lab, Man, Nfld, NWT, Ont, Que, Sask)
- longistylatum* Shewell, 1959 [Canada (Quebec)]
- ‘nr. *pictipes*’ Shewell, 1957 (*Simulium* sp.)
- ‘M’ Wolfe & Peterson, 1959 (*Simulium* sp.)

### Subgenus SIMULIUM Latreille s. str.

- SIMULIUM** Latreille, 1802 (as genus). Type species: *colombaschense* (original designation)
- ODAGMIA* Enderlein, 1921 (as genus). Type species: *ornatum* (original designation)
- FRIESIA* Enderlein, 1922 (as genus) (preocc.). Type species: *bezzii*, as *tristrigata* (original designation)
- DISCOSPHYRIA* Enderlein, 1922 (as genus). Type species: *trifasciatum*, as *odagmiina* (original designation)
- GYNONYCHODON* Enderlein, 1925 (as genus). Type species: *nobile* (original designation)
- PSEUDODAGMIA* Baranov, 1926 (as subgenus of *Odagmia*). Type species: *variegatum* (original designation)
- DANUBIOSIMULIUM* Baranov, 1935 (as subgenus of *Simulium*). Type species: *colombaschense*, as *columbaczensis* (monotypy)
- CLEITOSIMULIUM* Séguy & Dorier, 1936 (as subgenus of *Simulium*). Type species: *argenteostriatum*, as *rupicolum* (original designation)
- GNUS* Rubtsov, 1940 (as subgenus of *Simulium*). Type species: *decimatum* (original designation)
- TETISIMULIUM* Rubtsov, 1960 (unav. under Code Article 13(a)(iii)), not expressly proposed as subst. name for *Friesia* Enderlein)
- TETISIMULIUM* Rubtsov, 1963 (as genus). Type species: *bezzii* (original designation)
- PARABYSSODON* Rubtsov, 1964 (as genus). Type species: *transiens* (original designation)
- PHOSTERODOROS* Stone & Snoddy, 1969 (as subgenus of *Simulium*). Type species: *jenningsi* (original designation)
- PHORETODAGMIA* Rubtsov, 1972 (as genus). Type species: *ephemerophilum* (original designation)
- HIMALAYUM* Lewis, 1973 (as subgenus of *Simulium*). Type species: *indicum* (original designation)
- PARAGNUS* Rubtsov & Yankovsky, 1982 (as genus). Type species: *bukovskii* (original designation)

*ARCHESIMULIUM* Rubtsov & Yankovsky, 1982 (as subgenus of *Simulium* s. str.). Type species: *tuberosum* (original designation)

*ARGENTISIMULIUM* Rubtsov & Yankovsky, 1982 (as subgenus of *Simulium* s. str.). Type species: *noelleri* (original designation)

*STRIATOSIMULIUM* Rubtsov & Yankovsky, 1982 (as subgenus of *Simulium* s. str.). Type species: *japonicum* (original designation)

*FORETODAGMIA*: incorrect subsequent spelling (Rubtsov, 1974)

*TETRASIMULIUM*: incorrect subsequent spelling (*Zoological Record*, 2009)\*\*\*\*

#### ARGENTIPES species-group

<b>arboreum</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>argentipes</b> Edwards, 1928 .....	Malaysia (Malaya)
<b>beludense</b> Takaoka, 1996 .....	Malaysia (Sabah, Sarawak)
<b>bidentatum</b> (Shiraki, 1935) .....	Japan (Honshu, Ky, NI, Sh); China (Anhui, Fu, Gu, Li, Qi, Sh, Si, Yu), Korea (South)
‘Hanakago-buyu’ Kani, 1944	
<i>bidentitum</i> : incorrect subsequent spelling	
<b>canlaonense</b> Delfinado, 1969 .....	Philippines (Negros)
<b>haiduanense</b> Takaoka, Low & Huang, 2018 [ <i>in</i> Takaoka, Low, Tan, Huang, Fukuda & Ya’cob] .....	Taiwan
<b>minangkabau</b> Takaoka & Sigit, 1997 .....	Indonesia (Sumatra)
<b>sansahoense</b> Takaoka & Chen, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya’cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>tanae</b> Xue, 1992 .....	China (Yunnan, Jx, Zh)

#### ARGENTEOSTRIATUM species-group

<b>argenteostriatum</b> Strobl, 1898††† .....	Bosnia and Herzegovina; Algeria, Andorra, Austria, Bulgaria, Czech Republic, France, Germany, Greece, Italy, Montenegro, Poland, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Tunisia, Turkey, Ukraine
<i>schoenbaueri</i> Enderlein, 1921 [April] (unav., <i>nomen nudum</i> )	
<i>schoenbaueri</i> Enderlein, 1921 [June] (available) [Slovakia]	
<i>alternans</i> Enderlein, 1921 [April] (unav., <i>nomen nudum</i> )	
<i>alternans</i> Enderlein, 1921 [June] (available) [Slovakia]	
<i>rupicolum</i> Séguy & Dorier, 1936 [France]	
<i>simici</i> Zivkovitch, 1959 [Serbia]	
<i>argentostriatum</i> : incorrect subsequent spelling	
<i>rupiculum</i> : incorrect subsequent spelling	
<b>aureofulgens</b> Terteryan, 1949 .....	Armenia; Azerbaijan, Turkey
<b>hispaniola</b> Grenier & Bertrand, 1954 .....	Spain; Algeria, France, Italy, Portugal, Turkey
<i>parvifrons</i> (Rivosecchi & Cardinali, 1975) (ssp.) [Italy]	
<i>hispanica</i> , <i>hispaniolum</i> : incorrect subsequent spellings	
<b>tjanshanicum</b> Rubtsov, 1963 .....	Kyrgyzstan
<i>tjanschanicum</i> : incorrect original spelling (alternative)	

#### BEZZII species-group

<b>alajense</b> Rubtsov, 1938 .....	Kyrgyzstan; Afghanistan, Armenia, Bulgaria, China (IM, Li, Tibet, Xi), India (Kashmir), Iran, Kazakhstan, Mongolia, Pakistan, Tajikistan, Turkey, Turkmenistan, Uzbekistan, Romania (?)
<i>sbergi</i> Rubtsov, 1940 [Tajikistan]	
<i>alaensis</i> , <i>alajens</i> , <i>alajensie</i> , <i>alajeus</i> , <i>aljenis</i> : incorrect subsequent spellings	
<i>shergi</i> : incorrect subsequent spelling	
[ <i>hiemale</i> : Chinese authors, not Rubtsov]	
<b>atruncum</b> Chen, Ma & Wen, 2016 [ <i>in</i> Chen] .....	China (Qinghai)
<b>bezzii</b> (Corti, 1914) (complex)* .....	Italy (incl. Sardinia, Sicily); Algeria, Andorra, Armenia, Austria, Azerbaijan, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, France (incl. Corsica), Georgia, Germany, Greece (incl. Crete, Lésbos, Rhodes), Iran, Iraq, Israel, Lebanon, Macedonia, Montenegro, Morocco, Poland, Romania, Russia (Caucasus), Serbia,
<i>delphinense</i> Villeneuve, 1918 [France]	
<i>tristrigata</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	
<i>tristrigatum</i> (Enderlein, 1921 [June]) (available) [Spain]	
<i>obscurum</i> (Enderlein, 1924) [Bulgaria]	
<i>kondici</i> (Baranov, 1926) [Serbia]	

<i>atlas</i> Séguy, 1930 [Morocco]	Spain, Switzerland, Turkey, Ukraine, Uzbekistan
<i>crinitum</i> (Rubtsov, 1956) [Armenia]	
<i>gorjense</i> (Dinulescu, 1966) [Romania]	[Yankovsky, 2003 [2002] treats <i>crinitum</i> as valid sp.]
<i>graium</i> (Couvert, 1967) [Italy]	
<i>bezzi</i> : incorrect subsequent spelling	
<i>condici</i> : incorrect subsequent spelling	
[ <i>venustum</i> (part): authors (France), not Say]	
<b>coarctatum</b> Rubtsov, 1940 .....	China (Xinjiang); Iran, Kazakhstan, Mongolia, Tajikistan, Uzbekistan
<i>coactatum</i> , <i>coarclatum</i> , <i>oarctatum</i> : incorrect subsequent spellings	
<b>desertorum</b> Rubtsov, 1938 .....	China (Xinjiang, Jilin, Tibet); Bulgaria, Kazakhstan, Kyrgyzstan, Pakistan, Siberia (WS), Tajikistan, Turkmenistan
<i>deserlorum</i> : incorrect subsequent spelling	
<b>helanshanense</b> Chen & Yang, 2016 [ <i>in</i> Chen] .....	China (Ningxia Hui)
<b>hiemale</b> (Rubtsov, 1956) .....	Azerbaijan; Armenia, Georgia, Uzbekistan. [‘China’ error]
<i>hilmalis</i> , <i>hienalis</i> : incorrect subsequent spellings	
<b>iranicum</b> (Yankovsky, 2010) .....	Iran
<b>kerisorum</b> (Rubtsov, 1956) .....	Azerbaijan; Bulgaria, Georgia, Kyrgyzstan, Turkey (?)
<b>kozlovi</b> Rubtsov, 1940 .....	China (Qinghai, Xi); Azerbaijan, Kyrgyzstan, Mongolia, Tajikistan, Uzbekistan
<b>latimentum</b> (Rubtsov, 1956) .....	Kyrgyzstan; Mongolia, Siberia (WS), Romania (?)
<b>longgengen</b> Sun, 1994 .....	China (Liaoning)
<i>longgengen</i> Sun, 1992 (unav., not formally publ.)	
<i>longgengen</i> : incorrect subsequent spelling	
<b>rhomboideum</b> Chen & Zhang, 2016 [ <i>in</i> Chen] .....	China (Shanxi)
<b>stevensoni</b> Edwards, 1927 .....	Pakistan; India (Kashmir)
<b>tachengense</b> An & Mahe, 1994 .....	China (Xinjiang)
<i>tachengenae</i> , <i>techengense</i> : incorrect subsequent spellings	
<b>wutaishanense</b> An & Yan, 2003 .....	China (Shanxi)
<b>xiaodaense</b> Lin, Shi & An, 2004 .....	China (Qinghai)
‘2’ Saito, Uemoto & Afzal, 1989 ( <i>Simulium</i> sp.) .....	Pakistan

#### BIMACULATUM species-group

<b>bimaculatum</b> (Rubtsov, 1956) .....	Uzbekistan; Kazakhstan, China (?), Romania (?)
<i>chinensis</i> (Rubtsov, 1956) (unav., <i>nomen nudum</i> )	
<i>bimaculatatum</i> : incorrect subsequent spelling	
<b>platytarse</b> (Yankovsky, 1977) .....	Siberia (Khabarovsk FE)
<b>sexafila</b> (Rubtsov, 1976) .....	Kazakhstan
<b>trilineatum</b> (Rubtsov, 1956) .....	Tajikistan; Kazakhstan

#### BUKOVSKII species-group

<b>bukovskii</b> Rubtsov, 1940 .....	Ukraine (Crimea); Armenia, Bulgaria, Romania, Russia (SR), Turkey
<i>bucovskii</i> , <i>bucowskii</i> , <i>bukowskii</i> : incorrect subsequent spellings	
<b>degrangei</b> Dorier & Grenier, 1960 .....	France; Austria, Bosnia and Herzegovina, Bulgaria, Georgia, Germany, Greece, Italy, Montenegro, Serbia, Slovakia, Switzerland, Turkey, Ukraine
<i>degrangei</i> Zivkovitch & Grenier, 1959 (unav., <i>nomen nudum</i> )	
<i>sastshcheri</i> Machavariani, 1966 [Georgia]	
<i>degranjei</i> : incorrect subsequent spelling	
<i>sastchcheri</i> , <i>satchcherii</i> : incorrect subsequent spellings	
[ <i>schoenbaueri</i> : Novák, 1956, not Enderlein]	
<b>vigintifila</b> (Dinulescu, 1966) .....	Romania

#### CHRISTOPHERSI species-group

<b>acontum</b> Chen, Zhang & Huang, 2005 .....	China (Sichuan)
<b>atipornae</b> Takaoka, Srisuka & Choochote, 2014 [ <i>in</i> Takaoka Srisuka, Otsuka & Choochote] .....	Thailand, Vietnam
<b>christophersi</b> Puri, 1932 .....	India (Kashmir, HP); China (Tibet)

<i>chistophersi</i> , <i>chrystophersi</i> , <i>chrystoplersi</i> : incorrect subsequent spellings	
<b>fuscopilosum</b> Edwards, 1928	Malaysia (Malaya)
<i>fuscipilorum</i> : incorrect subsequent spelling	
<b>howletti</b> Puri, 1932	India (Bihar); China (Tibet)
<i>howletei</i> , <i>howleter</i> , incorrect subsequent spellings	
<b>rasuli</b> Takaoka, Ya'cob & Sofian-Azirun, 2018 [ <i>in</i> Ya'cob, Takaoka, Low & Sofian-Azirun]	Malaysia (Malaya)
<b>triangustum</b> An, Guo & Xu, 1995	China (Tibet)
'C' Takaoka & Davies, 1995 ( <i>Simulium</i> sp.)	Malaysia (Malaya)

#### CHUNGI species-group

<b>chungi</b> Takaoka & Huang, 2006	Taiwan; Vietnam
<b>taipokauense</b> Takaoka, Davies & Dudgeon, 1995	China (Hong Kong)
<i>taipotauense</i> : incorrect subsequent spelling	

#### CROCINUM species-group

<b>crocinum</b> Takaoka & Choochote, 2004	Thailand
'J' Kuvangkadilok, Boonkemtong & Phayuhasena, 1999 ( <i>Simulium</i> sp.)	
<b>ephippioidum</b> Chen & Wen, 1999	China (Guizhou, Hubei)
<i>ephippioideum</i> , <i>ephippioidum</i> , <i>ephippidum</i> : incorrect subsequent spellings	
<b>fuzhouense</b> Zhang & Wang, 1991	China (Fujian, Gu)
<i>fuzhouense</i> Zhang, 1988 (thesis) (unav., <i>nomen nudum</i> )	
<b>hongpingense</b> Chen, Luo & Yang, 2007	China (Hubei)
<b>laocaiense</b> Takaoka & Lau, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler]	Vietnam
<b>ledongense</b> Yang & Chen, 2001	China (Hainan)
<b>mediocoloratum</b> Takaoka & Choochote, 2004	Thailand
<i>medioealoratum</i> : incorrect subsequent spelling	
<b>parawaterfallum</b> Zhang, Yang & Chen, 2003	China (Hainan)
<i>parafullum</i> : incorrect subsequent spelling	
<b>qini</b> Cao, Wang & Chen, 1993	China (Sichuan)
<b>rudnicki</b> Takaoka & Davies, 1995	Malaysia (Malaya); Thailand
<b>serenum</b> Huang & Takaoka, 2009	Taiwan
<b>spoonatum</b> An & Yan, 1998 [ <i>in</i> An, Hao & Yan]	China (Guangdong: Shangchuan Island)
<i>sponatum</i> : incorrect subsequent spelling	
<b>taichungense</b> Takaoka & Huang, 2018	Taiwan
<b>tenuatum</b> Chen, 2000	China (Guizhou)
<b>titarensis</b> Takaoka & Shrestha, 2010	Nepal
<b>tumidilfilum</b> Luo, Yang & Chen, 2010	China (Hubei)
<b>turgidum</b> Takaoka & Pham, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler]	Vietnam
<b>ufengense</b> Takaoka, 1979	Taiwan; China (Sg)
<b>vietnamense</b> Takaoka, Sofian-Azirun & Chen, 2014 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham]	Vietnam
<b>waterfallum</b> Zhang, Yang & Chen, 2003	China (Hainan)
<i>fullum</i> : incorrect subsequent spelling	
<b>wulingense</b> Zhang & Chen, 2000	China (Guizhou)
<i>welingense</i> : incorrect subsequent spelling	
<b>yongi</b> Takaoka & Davies, 1997	Malaysia (Malaya); Thailand
[ <i>pahangense</i> : Takaoka & Davies, 1995 (part)]	
<b>yukawai</b> Takaoka & Pham, 2019 [ <i>in</i> Takaoka, Ya'cob, Sofian-Azirun, Chen, Low, Lau & Pham]	Vietnam

DUMOGAENSE species-group

<b>contractum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>dumogaense</b> Takaoka & Roberts, 1988 .....	Indonesia (Sulawesi)
<b>fuscitarse</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>landonoense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>mediodentatum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>nudifrons</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>seramense</b> Takaoka, 2003 .....	Indonesia (Maluku)
<b>tomohonense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>tumpaense</b> Takaoka & Roberts, 1988 .....	Indonesia (Sulawesi)
<b>watanabei</b> Takaoka, 2003 .....	Indonesia (Sulawesi)

EPHEMEROPHILUM species-group

<b>dubitskii</b> (Yankovsky, 1996) (subst. name) .....	Kyrgyzstan
<i>alajense</i> (Rubtsov, 1972) (preocc.)	
<b>ephemerophilum</b> Rubtsov, 1947 .....	Tajikistan; India (HP), Kyrgyzstan, Pakistan (Swat), Uzbekistan
<i>obikumbense</i> (Rubtsov, 1972) [Tajikistan]	
<i>ephemerophila</i> , <i>ephemerofila</i> , <i>ephemerophila</i> : incorrect subsequent spellings	
<i>obicumbensis</i> : incorrect subsequent spelling	
<b>jani</b> Lewis, 1973 .....	Pakistan (Swat)
<b>rashidi</b> Lewis, 1973 .....	Pakistan; India (HP)
<b>rithrogenophilum</b> (Konurbaev, 1984) .....	Kyrgyzstan; Kazakhstan
<i>rithrogenophilum</i> : incorrect subsequent spelling	

EXIMIUM species-group

<b>eximium</b> De Meijere, 1913 .....	Indonesia (Java, Bali, Flores, Lombok, Sumatra)
[ <i>upikae</i> : Takaoka, Hadi & Sigit, 2006, not Takaoka & Davies]	
<b>ranauense</b> Takaoka, Hadi & Sigit, 2006 .....	Indonesia (Sumatra)
‘nr. <i>eximium</i> ’ Takaoka <i>et al.</i> , 2000 ( <i>Simulium</i> sp.)	
<b>thienemanni</b> Edwards, 1934 .....	Indonesia (Java)
<b>upikae</b> Takaoka & Davies, 1996 .....	Indonesia (Java)
<i>upikae</i> Takaoka & Davies, 1995 (unav., <i>nomen nudum</i> )	

GRISEIFRONS species-group

<b>biforamiferum</b> Datta, 1974 .....	India (West Bengal); Bhutan
<b>choochotei</b> Takaoka, 2002 [ <i>in</i> Takaoka & Choochote] .....	Thailand
<b>digrammicum</b> Edwards, 1928 .....	Malaysia (Malaya); Thailand
[ <i>griseifrons</i> : Puri, 1932 / Crosskey, 1973, 1988, not Brunetti]	
<b>gravelyi</b> Puri, 1933 .....	India (Tamil Nadu); China (Tibet)
<i>grovelii</i> : incorrect subsequent spelling	
<b>griseifrons</b> Brunetti, 1911 .....	India (Uttar Pradesh, HP, Kashmir); China (Tibet), Pakistan. [‘Malaya’, ‘Thailand’ errors]
<i>greseifrans</i> , <i>greseifrons</i> , <i>griseifrone</i> , <i>griseifrons</i> , <i>groseifrons</i> : incorrect subsequent spellings	
<b>horokaense</b> Ono, 1980 .....	Japan (Hokkaido)
<b>japonicum</b> Matsumura, 1931 .....	Japan (Hokkaido incl. Rebun and Rishiri Islands, Hon, Ky, NI, Sh); China (Fu, Jilin, Li, Tibet), Korea (South), Siberia (FE incl. Kurile Islands and Sakhalin)
<i>annulipes</i> Shiraki, 1935 (preocc.) [Japan (Hokkaido)]	
<i>oshimanum</i> Shiraki, 1935 [Japan (Nansei Islands)]	
<i>kurilense</i> Rubtsov, 1956 [Siberia (Kurile Islands)]	
‘Yama-buyu’ Kani, 1944	
<i>japanicum</i> , <i>japoicum</i> , <i>japoicum</i> , <i>japonieum</i> : incorrect subsequent spellings	
[ <i>colobatzensis</i> [ <i>sic</i> ]: Matsumura, 1915, not Schoenbauer]	
<b>kawamurae</b> Matsumura, 1915 .....	Japan (Kyushu, Hon, Sh); China (Hubei)

‘Kutsugata-buyu’ Kani, 1944	
<b>konakovi</b> Rubtsov, 1956 .....	Siberia (Kurile Islands FE)
<i>konokovi</i> : incorrect subsequent spelling	
<b>maenoi</b> Takaoka & Choochote, 2002 .....	Thailand; Vietnam
<b>mediaxisus</b> An, Guo & Xu, 1995 .....	China (Tibet)
<i>mediakisus</i> : incorrect subsequent spelling	
<b>multifurcatum</b> Zhang & Wang, 1991 .....	China (Fujian)
<i>multifurcatum</i> Zhang, 1988 (thesis) (unav., <i>nomen nudum</i> )	
<b>phukaense</b> Takaoka & Choochote, 2005 .....	Thailand
<b>pukaengense</b> Takaoka & Choochote, 2005 .....	Thailand
<b>ramulosum</b> Chen, 2000 .....	China (Guizhou)
<b>shangchuanense</b> An & Hao, 1998 [ <i>in</i> An, Hao & Yan] .....	China (Guangdong: Shangchuan Island)
<b>shennongjiaense</b> Yan, Luo & Chen, 2005 .....	China (Hubei)
<b>suchariti</b> Takaoka & Choochote, 2004 .....	Thailand
<b>tenuitarsus</b> Puri, 1933 .....	India (West Bengal)
<i>tenuitarsis</i> : incorrect subsequent spelling	
<b>thongsahuani</b> Takaoka & Choochote, 2010 [ <i>in</i> Takaoka, Otsuka, Choochote & Thongsahuan] .....	Thailand
<b>visuti</b> Takaoka & Choochote, 2006 .....	Thailand

#### GROSSIFILUM species-group

<b>grossifilum</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Thailand, Vietnam
<b>hengshanense</b> Bi & Chen, 2004 .....	China (Hunan, Hubei)
<b>huangshanense</b> Cai, Chu, An & Wang, 2017 .....	China (Anhui)
<b>lushanense</b> Chen, Kang & Zhang, 2007 .....	China (Jiangxi)
<b>phayaense</b> Takaoka & Choochote, 2005 .....	Thailand

#### INDICUM species-group

<b>indicum</b> Becher, 1885 [1884] .....	India (Assam, ArP, HP, Kr, Ma, Me, Na, Sik, UP, WB); Afghanistan, Bangladesh, Bhutan, Burma, China (Tibet), Nepal, Pakistan (Kashmir). [Himalayan mountain range distribution]
<i>kashmiricum</i> Edwards, 1927 [Pakistan]	
? <i>indianum</i> Maxwell-Lefroy & Howlett, 1909 (unav., <i>nomen nudum</i> , attrib. ‘Big.’)	
<i>indiucum</i> : incorrect subsequent spelling	
<b>nigrogilvum</b> Summers, 1911 .....	Thailand; Burma, Vietnam
<i>nigrogiloum</i> : incorrect subsequent spelling	
<b>umphangense</b> Takaoka, Srisuka & Saeung, 2017 .....	Thailand
<b>vanellum</b> Huang, Phasuk, Chanpaisaeng & Adler, 2010 .....	Thailand

#### IRIDESCENS species-group

<b>iridescens</b> De Meijere, 1913 .....	Indonesia (Java, Bali, Lombok, Sumatra)
<i>iridescens</i> : incorrect subsequent spelling	
<b>javaense</b> Takaoka & Hadi, 1991 .....	Indonesia (Java, Bali)
[ <i>iridescens</i> var.: Edwards, 1934, not De Meijere]	

#### JENNINGSI species-group

<b>anchistinum</b> Moulton & Adler, 1995 .....	USA (South Carolina, Geo, NC, NJ, NY, Pen, Vir)
[ <i>nyssa</i> : Stone & Snoddy, 1969 (part)]	
<b>aranti</b> Stone & Snoddy, 1969 .....	USA (Alabama, Geo, SC, Ten)
‘116’ Snoddy, 1966 (thesis) ( <i>Simulium</i> sp.)	
<b>chlorum</b> Moulton & Adler, 1995 .....	USA (South Carolina, Pen)
<i>chlorosum</i> Moulton, 1992 (thesis) (unav., <i>nomen nudum</i> )	
<b>confusum</b> Moulton & Adler, 1995 .....	USA (South Carolina, Ala, Ark, Geo, Lou, Misp, NC, Neb, Okl, Ten, Texas, Vir)
[see Adler, Currie & Wood, 2004 for misidentifications]	
<b>definitum</b> Moulton & Adler, 1995 .....	USA (South Carolina, Del, Pen, Vir)

[ <i>lakei</i> : authors, not Snoddy]	
<b>dixiense</b> Stone & Snoddy, 1969 .....	USA (Alabama, Flo, Geo, Misp, NC, SC)
‘17’ Snoddy, 1966 (thesis) ( <i>Simulium</i> sp.)	
<b>fibrinflatum</b> Twinn, 1936 .....	Canada (Ontario, NS); USA (Ala, Geo, Maine, Mas, NC, NH, NJ, NY, Pen, RI, SC, Vir, WV)
<i>underhilli</i> Stone & Snoddy, 1969 [USA (Alabama)]	
<i>octobranchium</i> Moulton, 1992 (thesis) (unav., <i>nomen nudum</i> )	
‘7’ Snow, Pickard & Jones, 1958 / Snoddy, 1966 (thesis) ( <i>Simulium</i> sp.)	
[ <i>notiale</i> (part): Stone & Snoddy, 1969, not Twinn]	
<b>haysi</b> Stone & Snoddy, 1969 .....	USA (Alabama, Flo, Texas)
‘114’ Snoddy, 1966 (thesis) ( <i>Simulium</i> sp.)	
<b>infenestrum</b> Moulton & Adler, 1995 .....	USA (South Carolina, NC)
[ <i>rugglesi</i> (part): authors (South Carolina), not Nicholson & Mickel]	
<b>jenningsi</b> Malloch, 1914 .....	USA (Maryland, Ala, Con, Geo, Ind, Kan, Ken, Maine, Mas, Mic, Min, Misp, Misr, NC, NH, NJ, NY, Ohio, Pen, SC, Ten, Vir, Wis, WV); Canada (Ont, Que)
<i>nigroparvum</i> Twinn, 1936 [Canada (Ontario)]	
‘a’ Johannsen, 1903 ( <i>Simulium venustum</i> var.)	
<i>nigrovum</i> : incorrect subsequent spelling	
<b>jonesi</b> Stone & Snoddy, 1969 .....	USA (Alabama, Del, Flo, Geo, Lou, Misp, NC, SC, Texas, Vir)
‘58’ Simpson <i>et al.</i> , 1956 / Snoddy, 1966 (thesis) ( <i>Simulium</i> sp.)	
[ <i>jenningsi</i> : Lake, 1983, not Malloch]	
<b>krebsorum</b> Moulton & Adler, 1992 .....	USA (South Carolina, NC)
[ <i>haysi</i> (part): authors (South Carolina), not Stone & Snoddy]	
<b>lakei</b> Snoddy, 1976 .....	USA (Delaware, Flo, Geo, NC, NJ, Pen, SC)
‘120a’ Arnold, 1974 (thesis) ( <i>Simulium</i> sp.)	
‘120b’ Arnold, 1974 (thesis) ( <i>Simulium</i> sp.)	
‘(prob. new sp.) near <i>jenningsi</i> ’ Hauer & Benke, 1987 ( <i>Simulium</i> sp.)	
‘near <i>jenningsi</i> ’ Benke & Parsons, 1990 ( <i>Simulium</i> )	
[see Adler, Currie & Wood, 2004 for misidentifications]	
<b>luggeri</b> Nicholson & Mickel, 1950 (complex) .....	USA (Minnesota, Ala, Ark, Geo, Ind, Iowa, Kan, Ken, Mar, Mic, Misp, Misr, Neb, NH, NJ, NY, Ohio, Okl, Pen, SC, SD, Ten, Wis, WV); Canada (Alb, BC, Man, NWT, Ont, Sask)
‘L’ Fredeen, 1951 (thesis) ( <i>Simulium</i> sp.)	
‘n. sp. aff. <i>luggeri</i> ’ Pistrang, 1983 (thesis) ( <i>Simulium</i> )	
<i>luggari</i> : incorrect subsequent spelling	
[ <i>jenningsi</i> : Currie, 1986, not Malloch]	
<b>notiale</b> Stone & Snoddy, 1969 .....	USA (Alabama, Flo, Geo, NC, Pen, SC, Ten, Vir)
<i>snowi</i> Stone & Snoddy, 1969 [USA (Alabama)]	
‘16’ Snow, Pickard & Jones, 1958 / Snoddy, 1966 (thesis) ( <i>Simulium</i> sp.)	
‘52’ Snoddy, 1966 (thesis) ( <i>Simulium</i> sp.)	
‘near <i>notiale-underhilli</i> ’ Adler, 1983 (thesis) ( <i>Simulium</i> sp.)	
<i>notialiale</i> : incorrect subsequent spelling	
<b>nyssa</b> Stone & Snoddy, 1969 .....	USA (Alabama, Ark, Con, Geo, Ken, Maine, Mas, Pen, SC, Ten, Vir, WV); Canada (NS)
‘117’ Snoddy, 1966 (thesis) ( <i>Simulium</i> sp.)	
<b>ozarkense</b> Moulton & Adler, 1995 .....	USA (Missouri, Ark, Ken, Okl, Texas)
<b>penobscotense</b> Snoddy & Bauer, 1978 .....	USA (Maine, Mas)
‘n. sp. P’ May, Bauer, Vadas & Granett, 1977 ( <i>Simulium</i> )	
[ <i>rugglesi</i> (part): Stone, 1964, not Nicholson & Mickel]	
<b>podostemi</b> Snoddy, 1971 .....	USA (Mississippi [neotype], Ark, Geo, NC, Pen, SC)
<b>remissum</b> Moulton & Adler, 1995 .....	USA (North Carolina)
<b>taxodium</b> Snoddy & Beshear, 1968 .....	USA (Georgia, Ala, Flo, NC, SC)

MALYSCHEVI species-group

<b>baimaii</b> Kuvangkadilok & Takaoka, 1999 [ <i>in</i> Takaoka & Kuvangkadilok] .....	Thailand
<b>cholodkovskii</b> Rubtsov, 1940 [1939] .....	Siberia (Buryatskaya ES, FE, WS); China (He, Jilin), Kazakhstan, Mongolia, Russia (CR)
<i>cholodkovskii</i> Stukolkina, 1939 (unav., <i>nomen nudum</i> , attrib. Rubtsov)	
<i>cholodkowskii</i> : incorrect original spelling	

<i>cholodhovskii, cholodkouskii</i> : incorrect subsequent spellings	
<b>daisense</b> (Takahasi, 1950) .....	Japan (Honshu, Hok, Ky, Sh)
<i>diasense</i> : incorrect subsequent spelling	
<b>damingense</b> Chen, Zhang & Zhang, 2007 .....	China (Guangxi Zhuang)
<i>daminagense</i> : incorrect subsequent spelling	
<b>decimatum</b> Dorogostaisky, Rubtsov & Vlasenko, 1935 .....	Siberia (Baikal ES, FE, WS); China (He), Kazakhstan, Mongolia, Russia (CR, KM)
<i>wagneri</i> Rubtsov, 1940 [Siberia (Altai)]	
<i>xerophilum</i> (Rubtsov, 1969) [Mongolia]	
<i>yui</i> An & Yan, 2009 [China (Heilongjiang)]****	
<i>decimarum</i> : incorrect subsequent spelling	
<b>gabovae</b> (Rubtsov, 1966) .....	Russia (Komi NR)
<b>hirtipannus</b> Puri, 1932 .....	India (Assam); China (Fu, Gu, Tibet)
<b>ibariense</b> Zivkovitch & Grenier, 1959 .....	Serbia; Austria, Bulgaria, Czech Republic, Macedonia, Poland, Switzerland, Ukraine
<i>novaki</i> Knoz, 1960 [Czech Republic]	
<i>ibariense</i> : incorrect subsequent spelling	
<b>jacuticum</b> Rubtsov, 1940 .....	Siberia (Yakutskaya ES, FE); China (Fu, He, IM, Sh)
<i>halonense</i> (Takahasi, 1940) [China (Inner Mongolia)]	
<i>jecuticum</i> : incorrect subsequent spelling	
<b>kyushuense</b> Takaoka, 1978 .....	Japan (Kyushu)
<b>liaoningense</b> Sun, 1994 .....	China (Liaoning)
<b>lichuanense</b> Chen, Luo & Yang, 2016 [ <i>in</i> Chen] .....	China (Hubei)
<i>lichuanense</i> Chen, Luo & Yang, 2007 (unav., <i>nomen nudum</i> )	
<i>lichuanense</i> Yang, Chen & Luo, 2009 (unav., <i>nomen nudum</i> )	
<b>lomkaense</b> Takaoka & Srisuka, 2014 [ <i>in</i> Takaoka, Srisuka, Saeung & Otsuka] .....	Thailand
<b>malyschevi</b> Dorogostaisky, Rubtsov & Vlasenko, 1935 .....	Siberia (Irkutskaya ES, FE); Canada (Alb, BC, Man, NWT, Sask, Yukon), China (He, Jilin, Li), Japan (Hon, Ky), Kazakhstan, Korea (South), USA (Alaska)
<i>pseudovarietatum</i> Rubtsov, 1936 (unav., <i>nomen nudum</i> , attrib. Dorogostaisky & Rubtsov)	
<i>albipes</i> (Rubtsov, 1956) [Siberia (Maritime FE)]	
<i>lucidum</i> (Rubtsov, 1956) [Siberia (Irkutskaya)]	
‘4’ Malloch, 1919 ( <i>Simulium</i> sp.)	
‘Kagogata-buyu’ Kani, 1944	
<i>ablipes</i> : incorrect subsequent spelling	
<i>lucudum</i> : incorrect subsequent spelling	
<i>malashevi, malayshevi, malycshevi, malyshevi, malyshavl,</i> <i>malyshivy, malyshewi</i> : incorrect subsequent spellings	
<b>mongolicum</b> (Rubtsov, 1969) .....	Mongolia
<b>nacojapi</b> Smart, 1944 (subst. name) .....	Japan (Honshu, Ky, Sh); China (Li), Korea (South), Siberia (ES, FE)
<i>japonicum</i> (Shiraki, 1935) (preocc.)	
‘Madoaki-buyu’ Kani, 1944	
<i>nacojepi, nocojapi</i> : incorrect subsequent spelling	
[ <i>subvariegatum</i> : Bentinck, 1955, not Rubtsov]	
<b>nanyangense</b> Guo, Ge & An, 2013 .....	China (Henan)
<i>nanyanyangensei</i> : incorrect subsequent spelling	
<b>nigricoxum</b> Stone, 1952 (subst. name, for <i>simile</i> ) .....	Canada (Nun, NWT, Yukon), USA (Alaska)
<i>simile</i> Malloch, 1919 (preocc.) [Canada (Nunavut [as NWT])]	
<i>nigrocoxum</i> : incorrect subsequent spelling	
<b>obliquum</b> Takaoka & Low, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya’cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>phidimense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>rufipes</b> (Tan & Chow, 1976) [ <i>in</i> Lee, Tan, Zhou & Wang] .....	China (‘northeastern’)
<b>siripoomense</b> Takaoka & Saito, 1996 .....	Thailand
<b>spiculum</b> Chen, Huang & Yang, 2010 .....	China (Heilongjiang, Jilin, Li). [? = <i>subvariegatum</i> ]
<i>speculum</i> : incorrect subsequent spelling	
<b>subvariegatum</b> Rubtsov, 1940 .....	Siberia (Yakutskaya ES, FE); China (Be), Mongolia
<i>subvariegatum</i> Rubtsov, 1939 (unav., <i>nomen nudum</i> )	
<i>subvariegatum</i> Stukolkina, 1939 (unav., <i>nomen nudum</i> ,	



## MELANOPUS species-group

<b>abatanense</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>acostai</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>aquilum</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>atrum</b> Delfinado, 1969 .....	Philippines (Mindanao, Luzon, Palawan, Tawi Tawi)
<b>banahauense</b> Takaoka, 2007 .....	Philippines (Luzon)
<b>bishopi</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Indonesia (Sumatra), Thailand
<b>cheedhangi</b> Takaoka, Ya'cob & Sofian-Azirun, 2015 .....	Malaysia (Sarawak, Sabah)
<b>conconvum</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>conspicuum</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>crassimanum</b> Edwards, 1933 .....	Malaysia (Sabah)
<i>liewi</i> Takaoka, 2007 [Malaysia (Sabah)]	
<b>discrepans</b> Delfinado, 1969 .....	Philippines (Luzon, Bohol, Cebu, Leyte, Mindanao, Mindoro, Negros, Panay)
<b>forcipatum</b> Delfinado, 1969 .....	Philippines (Luzon, Palawan)
<b>gatchaliani</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>halconense</b> Takaoka & Tenedero, 2007 .....	Philippines (Mindoro)
<b>iwahigense</b> Takaoka, 1983 .....	Philippines (Palawan)
<b>lardizabala</b> e Takaoka & Sofian-Azirun, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau, Fernandez & Lardizabal] .....	Malaysia (Sabah)
<b>laterale</b> Edwards, 1933 .....	Malaysia (Sabah, Sarawak)
<i>kinabaluense</i> Smart & Clifford, 1969 [Malaysia (Sabah)]	
<b>maklarini</b> Takaoka, 2007 .....	Malaysia (Sabah)
<b>malaibaense</b> Takaoka & Tenedero, 2007 .....	Philippines (Negros)
<b>mayoyaense</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>melanopus</b> Edwards, 1929 .....	Philippines (Luzon, Leyte, Mindanao, Negros, Palawan)
<b>mirum</b> Takaoka, Sofian-Azirun & Low, 2016 [ <i>in</i> Takaoka, Low, Sofian-Azirun, Otsuka, Ya'cob, Chen, Lau & Lardizabal] .....	Malaysia (Sabah, Sarawak); Indonesia (Kalimantan)
'sp.' Takaoka & Leh, 2009 ( <i>Simulium</i> )	
[ <i>laterale</i> : Smart & Clifford, 1969, not Edwards]	
<b>murudense</b> Takaoka, Ya'cob & Sofian-Azirun, 2015 .....	Malaysia (Sarawak)
<b>neodiscrepans</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>nigripilosum</b> Edwards, 1933 .....	Malaysia (Sabah)
<i>nigripilosum</i> : incorrect subsequent spelling	
<b>palawanense</b> Delfinado, 1971 .....	Philippines (Palawan)
<b>pandum</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>retusum</b> Delfinado, 1971 .....	Philippines (Palawan)
<b>salebrosum</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>simulacrum</b> Delfinado, 1969 .....	Philippines (Luzon)
<b>subatrum</b> Takaoka, 1983 .....	Philippines (Palawan, Luzon)
<b>sumigorens</b> e Takaoka, 2006 .....	Philippines (Luzon)
<b>suplidoi</b> Takaoka, 1983 .....	Philippines (Negros)
<b>taalense</b> Takaoka, 1983 .....	Philippines (Luzon, Mindoro)
<b>timpohonense</b> Takaoka & Sofian-Azirun, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau, Fernandez & Lardizabal] .....	Malaysia (Sabah)
<b>tomentosum</b> Delfinado, 1969 .....	Philippines (Luzon)

## MULTISTRIATUM species-group

<b>barraudi</b> Puri, 1932 .....	India (Kashmir, HP); Bhutan, Burma, China (Tibet), Nepal, Pakistan
'B' Lewis, 1964 ( <i>Simulium</i> sp.)	
<i>barrandi</i> : incorrect subsequent spelling	
<b>bifengxiaense</b> Huang, Zhang & Chen, 2013 .....	China (Sichuan)
<b>bullatum</b> Takaoka & Choochote, 2005 .....	Thailand
[ <i>fenestratum</i> (part): Pramual & Nanork, 2012 (chromocentric	

	individuals), not Edwards]	
<b>chainarongi</b>	Kuvangkadilok & Takaoka, 1999 [ <i>in</i> Takaoka & Kuvangkadilok] .....	Thailand
	<i>chainalongi, chinarongi</i> : incorrect subsequent spellings	
<b>chaliowae</b>	Takaoka & Boonkemtong, 1999 [ <i>in</i> Takaoka & Kuvangkadilok] .....	Thailand
	<i>cheliowae</i> : incorrect subsequent spelling	
<b>chanyae</b>	Takaoka & Choochote, 2007 .....	Thailand; Burma
<b>chongqingense</b>	Zhu & Wang, 1995 (junior primary homonym of <i>chongqingense (-is)</i> Zhu & Wang, 1995 (earlier use), but no available subst. name) .....	China (Sichuan)
<b>daoense</b>	Takaoka & Adler, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam; Thailand
<b>demolaense</b>	Takaoka & Somboon, 2008 .....	Bhutan
<b>dentatum</b>	Puri, 1932 .....	India (West Bengal, Assam, Me, Sik); Bhutan, China (Tibet)
	<i>demtatum, duntatum</i> : incorrect subsequent spellings	
<b>deothangense</b>	Takaoka & Somboon, 2008 .....	Bhutan
<b>digitatum</b>	Puri, 1932 .....	India (HP & Punjab); China (Gd, Tibet)
<b>fenestratum</b>	Edwards, 1934 .....	Indonesia (Sumatra); Laos, Thailand
	'A' Takaoka, Srisuka & Saeung, 2019 (morphofrom) .....	Indonesia (Sumatra), Thailand
	'B' Takaoka, Srisuka & Saeung, 2019 (morphofrom) .....	Indonesia (Sumatra), Thailand
	<i>fenstratum</i> : incorrect subsequent spelling	
	[ <i>sakishimaense</i> : Takaoka & Suzuki, 1984, not Takaoka]	
<b>gokarnaense</b>	Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>hillycum</b>	Maskey, 1989 .....	Nepal
	<i>hillycum</i> Maskey, 1986 (thesis) (unav., <i>nomen nudum</i> )	
<b>hirtinervis</b>	Edwards, 1928 .....	Malaysia (Malaya); Vietnam
<b>kisapense</b>	Takaoka, Sofian-Azirun & Ya'cob, 2012 .....	Malaysia (Malaya)
<b>lacduongense</b>	Takaoka & Ya'cob, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>lampangense</b>	Takaoka & Choochote, 2005 .....	Thailand
<b>loui</b>	Takaoka & Sofian-Azirun, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam; Burma
<b>malayense</b>	Takaoka & Davies, 1995 .....	Malaysia (Malaya); Thailand, Vietnam
	'A' Thajjarern, Pramual & Adler, 2018 (cytoform) .....	Thailand
	'C' Thajjarern, Pramual & Adler, 2018 (cytoform, typical) .....	Malaysia (Malaya)
<b>maskeyae</b>	Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>multistriatum</b>	Rubtsov, 1947 .....	Tajikistan; Kazakhstan, Turkmenistan, Uzbekistan
	<i>miltistriatum, multistratum</i> : incorrect subsequent spellings	
<b>novolineatum</b>	Puri, 1933 (subst. name) .....	India (West Bengal, ArP, Ka, UP); Burma
	<i>lineatum</i> Puri, 1932 (preocc.)	
<b>pallidofemur</b>	Deng, Zhang, Xue & Chen, 1994 .....	China (Tibet)
	<i>pallidofemum, pallidofemun</i> : incorrect subsequent spellings	
<b>ratekholaense</b>	Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>rotifilis</b>	Chen & Zhang, 1998 .....	China (Guizhou)
	<i>rotiflis</i> : incorrect subsequent spelling	
<b>sakishimaense</b>	Takaoka, 1977 .....	Japan (Nansei Islands); China (Anhui, Fu, Gu, HK, Hubei, Jx, Yu, Zh), Taiwan. ['Thailand' error]
	<i>fujianense</i> Zhang, 1988 (ssp.) (thesis) (unav., <i>nomen nudum</i> )	
	<i>fujianense</i> Zhang & Wang, 1991 (ssp.) [China (Fujian)]	
	<i>sakishimaens, sakishimaense, sakishimaense, sakishimense</i> : incorrect subsequent spellings	
	[ <i>fenestratum</i> : Ogata, 1966, not Edwards]	
<b>subornatoides</b>	Rubtsov, 1947 .....	Tajikistan
	<i>subornatouides</i> : incorrect subsequent spelling	
<b>takense</b>	Takaoka & Choochote, 2005 .....	Thailand

<b>tamorensis</b> Takaoka & Shrestha, 2010 .....	Nepal
<b>thimphuensis</b> Takaoka, Namgay & Somboon, 2021 .....	Bhutan
<b>triglobus</b> Takaoka & Kuvangkadilok, 1999 .....	Thailand
<b>ubonae</b> Thajjarern, Wongpakam, Kangrang & Pramual, 2019 .....	Thailand
<b>uncum</b> Zhang & Chen, 2001 .....	China (Guizhou)
<b>undecimum</b> Takaoka, Srisuka & Saeung, 2019 [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....	Thailand
‘B’ Thajjarern, Pramual & Adler, 2018 ( <i>malayensis</i> cytoform)	
<b>xanthogastrum</b> Rubtsov, 1951 .....	Tajikistan; Pakistan, Uzbekistan
<i>xanthogastrum</i> Rubtsov, 1947 (unav., <i>nomen nudum</i> )	
<b>xiaolongtanensis</b> Chen, Luo & Yang, 2007 .....	China (Hubei)
<i>xiaolongtane</i> : incorrect subsequent spelling	

#### NEBULICOLA species-group

<b>celsum</b> Takaoka & Davies, 1996 .....	Indonesia (Java)
<i>celsum</i> Takaoka & Davies, 1995 (unav., <i>nomen nudum</i> )	
<b>nebulicola</b> Edwards, 1934 .....	Indonesia (Java, Flores, Sumatra)
<b>sumatraensis</b> Takaoka & Sigit, 1997 .....	Indonesia (Sumatra)

#### NOBILE species-group

<b>asishi</b> Datta, 1988 .....	India (West Bengal)
<b>baltazarae</b> Delfinado, 1962 .....	Philippines (Luzon, Cebu, Leyte, Mindanao, Mindoro, Negros, Samar)
[ <i>nobile</i> : Delfinado, 1969, not De Meijere]	
<b>benquetense</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>cotabatoense</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>delfinadoae</b> Takaoka, 1983 .....	Philippines (Negros, Luzon)
‘A’ Delfinado, 1969 ( <i>Simulium</i> sp.)	
<b>kiuliense</b> Smart & Clifford, 1969 .....	Malaysia (Sabah)
‘A’ Low, Takaoka, Pramual, Adler, Ya’cob, Chen, Yotopranoto, Zaid, Hadi, Lardizabal, Nasruddin-Roshidi & Sofian-Azirun (molecular form of <i>nobile</i> )	
<b>latistylum</b> Takaoka, 1983 .....	Philippines (Palawan)
<b>leytense</b> Takaoka, 1983 .....	Philippines (Leyte, Luzon, Negros, Panay)
<b>nobile</b> De Meijere, 1907 .....	Indonesia (Java, Bali, Sumatra)
‘B’ Low, Takaoka, Pramual, Adler, Ya’cob, Chen, Yotopranoto, Zaid, Hadi, Lardizabal, Nasruddin-Roshidi & Sofian-Azirun (molecular form)	
<b>nodosum</b> Puri, 1933 .....	India (Karnataka, Assam, WB); Bhutan, Burma, China (Fu, Hainan, HK, Tibet (?), Yu), Taiwan, Thailand, Vietnam. [‘Japan error’]
<i>minutum</i> Shiraki, 1935 (preocc.)	
<i>shirakii</i> Kono & Takahasi, 1940 (subst. name) [Taiwan]	
<i>shiraki</i> : incorrect subsequent spelling	
<b>timorensis</b> Takaoka, Hadi & Sigit, 2006 .....	Indonesia (West Timor, Flores, Lombok, Sumba, Sumbawa)
<b>vanluni</b> Ya’cob, Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Ya’cob, Takaoka, Low & Sofian-Azirun] .....	Malaysia (Malaya), Thailand
‘C’ Low, Takaoka, Pramual, Adler, Ya’cob, Chen, Yotopranoto, Zaid, Hadi, Lardizabal, Nasruddin-Roshidi & Sofian-Azirun (molecular form of <i>nobile</i> )	
[ <i>nobile</i> : Crosskey, 1973 / Takaoka & Davies, 1995, not De Meijere]	

#### NOELLERI species-group

<b>beringovi</b> Bodrova, 1988 .....	Siberia (Commander Islands FE)
<b>coreanum</b> Kim, 2014 .....	Korea (South)
<b>decorum</b> Walker, 1848 .....	Canada (Ontario, Alb, BC incl. Queen Charlotte Islands, Lab, Man, Nfld, NS, NWT, Que, Sask, Yukon); USA
<i>katmai</i> Dyar & Shannon, 1927 [USA (Alaska)]	

<i>ottawaense</i> Twinn, 1936 [Canada (Quebec)]	(Ala, Alaska, Col, Con, Del, Flo, Geo, Idaho, Ill, Ind, Kan, Maine, Mas, Mic, Min, Misp, Misr, Mon, NC, Neb, NH, NJ, NY, Ohio, Pen, RI, SC, Ten, Utah, Vir, Was, Wis, WV, Wyo). [Not Old World (misidentified)]
‘C’ Fredeen, 1956 ( <i>Simulium</i> sp.)	
‘I’ Anderson & Dicke, 1960 ( <i>Simulium</i> sp.)	
[ <i>piscidium</i> : Johannsen, 1902 / O’Kane, 1926, not Riley]	
<b>dolini</b> Usova & Sukhomlin, 1989 .....	Ukraine; Belarus
<b>nikkoense</b> Shiraki, 1935 .....	Japan (Honshu, Hok, Ky, Sh); China (IM, Jilin, Li, Xi), Korea (South)
<i>triangulare</i> Rubtsov, 1963 (ssp. of <i>argyreatum</i> ) [Japan (Honshu)]	
<i>nikeoense</i> , <i>nikkaense</i> : incorrect subsequent spellings	
<i>triangulare</i> , <i>trianvgulare</i> : incorrect subsequent spellings	
[ <i>argyreatum</i> : Chinese and Japanese authors, not Meigen]	
[ <i>decorum</i> : authors, not Walker]	
[ <i>noelleri</i> : authors, not Friederichs]	
<b>noelleri</b> Friederichs, 1920 (complex) .....	Germany; Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain (CI, En, Sc, Wa), Canada (Man, Nun, NWT, Yukon), China (IM, Li), Czech Republic, Denmark, Estonia, Finland, France, Hungary, Ireland, Italy, Kazakhstan, Latvia, Lithuania, Luxembourg, Mongolia, Netherlands, Norway, Poland, Romania, Russia (CR, KM, NR, SR), Serbia, Siberia (ES, WS), Slovakia, Slovenia, Sweden, Switzerland, Turkey, Ukraine, USA (Alaska)
<i>subornatum</i> Edwards, 1920 [Britain (England)]	
<i>tenuimanus</i> Enderlein, 1921 [April] (unav., <i>nomen nudum</i> )	
<i>tenuimanus</i> Enderlein, 1921 [June] (available) [Germany]	
<i>septentrionale</i> Enderlein, 1935 [Russia (Murmansk)]	
<i>lindneri</i> (Enderlein, 1943) [Austria]	
<i>avidum</i> Rubtsov, 1963 (unav., var. post-1960, preocc.)	
<i>bononii</i> Rubtsov, 1964 (unav., var. post-1960)	
‘I’ Puri, 1926 ( <i>Simulium</i> sp.)	
‘indet.’ Edwards, 1933 ( <i>Simulium</i> s. str. sp.)	
‘near <i>decorum</i> ’ Shewell, 1957 ( <i>Simulium</i> sp.)	
‘Churchill’ Feraday, 1984 ( <i>decorum</i> cytoform)	
‘nr. churchill’ Hershey, Merritt & Miller, 1995 ( <i>decorum</i> cytoform)	
‘A’ Adler & Kachvoryan, 2001 (cytoform, typical) .....	Britain (En, Sc), Germany, Russia (CR)
‘B’ Adler & Kachvoryan, 2001 (cytoform) .....	Canada (Man, Nun, NWT, Yukon), Finland, Siberia (FE), Sweden
‘C’ Adler & Kachvoryan, 2001 (cytoform) .....	Armenia
‘D’ Gorlov, Budaeva, Vlasov & Adler, 2016 (cytoform) .....	Russia (CR)
<i>argareatum</i> : incorrect subsequent spelling [as misident.]	
<i>nöller</i> : incorrect original and subsequent spelling	
<i>hölleri</i> , <i>molleri</i> , <i>noellery</i> , <i>nolleri</i> : incorrect subsequent spellings	
<i>tennininus</i> : incorrect subsequent spelling	
[ <i>argyreatum</i> : authors (incl. Rothfels, 1979), not Meigen]	
[ <i>behningi</i> (part): Rubtsov, 1956, 1963 / Chinese authors, not Enderlein]	
[ <i>decorum</i> : Palearctic authors, not Walker]	
<b>palustre</b> Rubtsov, 1956 .....	Siberia (Irkutskaya ES, FE, WS); China (IM), Ukraine
<i>palastre</i> : incorrect subsequent spelling	
<b>parargyreatum</b> Rubtsov, 1979 .....	Tajikistan
<b>tshuni</b> (Yankovsky, 2006) .....	Russia (Murmansk KM)
<b>vershininae</b> Yankovsky, 1982 .....	Siberia (Chitinskaya ES)

#### ORNATUM species-group

<b>adventicium</b> Datta, 1985 .....	India (Himachal Pradesh)
<b>baracorne</b> Smart, 1944 (subst. name) .....	Serbia; Bulgaria, Greece, Moldova, Romania, Russia (Caucasus), Slovakia, Turkey, Ukraine (incl. Crimea), Uzbekistan
<i>ruficorne</i> (Baranov, 1926) (preocc.) [Serbia]	
<i>primum</i> (Baranov, 1926) ( <i>ruficorne</i> form, preocc.) [Serbia]	
<i>secundum</i> (Baranov, 1926) ( <i>ruficorne</i> form, preocc.) [Serbia]	
<i>ponticum</i> (Rubtsov, 1956) [Ukraine]	
<i>acutiphallus</i> (Rubtsov, 1963) [Ukraine]	
<i>barocornis</i> : incorrect subsequent spelling	
<b>bronchiale</b> (Rubtsov, 1962) .....	Russia (St Petersburg CR)
<b>chowettani</b> Yankovsky, 1996 (subst. name, malformed) .....	China (Beijing)
<i>septentrionale</i> (Tan & Chow, 1976) (preocc.)	
<i>chowettani</i> : incorrect subsequent spelling	
<i>septentrionalis</i> : incorrect subsequent spelling	

<b>croaticum</b> (Baranov, 1937) .....	Croatia; Germany (?)
<i>decoloratum</i> (Baranov, 1937) [Croatia]	
<i>nigrinum</i> (Baranov, 1937) [Croatia]	
<b>deserticola</b> Rubtsov, 1940 .....	Tajikistan [neotype]; Mongolia, Romania, Ukraine, Uzbekistan
<b>egregium</b> Séguy, 1930 .....	Morocco
<b>emeinesis</b> An, Xue & Song, 1991 .....	China (Sichuan)
<i>omeinesis</i> : incorrect subsequent spelling	
<b>ferganicum</b> Rubtsov, 1940 .....	Kyrgyzstan; China (Sh, Xi), Kazakhstan, Siberia (WS), Tajikistan, Turkmenistan, Uzbekistan
<i>ferghanicum</i> , <i>tergania</i> : incorrect subsequent spellings	
<b>flaveolum</b> Rubtsov, 1940 .....	Tajikistan; Kyrgyzstan, Siberia (Altai WS), Turkmenistan, Uzbekistan
<i>flaviolum</i> : incorrect subsequent spelling	
<b>fontanum</b> Terteryan, 1952 [1951] .....	Armenia; Azerbaijan, Iran, Romania, Russia (SR), Turkey
<i>fantana</i> : incorrect subsequent spelling	
<b>frigidum</b> Rubtsov, 1940 .....	Siberia (ES, WS); Belarus, Finland, Lithuania, Norway, Poland, Romania, Russia (CR, NR), Sweden, Ukraine
<i>brigida</i> , <i>frigid</i> : incorrect subsequent spellings	
<b>fuscum</b> (Rubtsov, 1963) .....	Russia (St Petersburg CR, NR)
<i>fuscatum</i> Yankovsky, 1996 (unnecessary subst. name)	
<b>intermedium</b> Roubaud, 1906 .....	Canary Islands (Tenerife, Gomera, Gran Canaria, La Palma); Algeria, Andorra, Austria, Balearic Islands (Majorca, Minorca), Belarus, Belgium, Britain (En, Sc, Wa), Bulgaria, Denmark, Finland, France (incl. Corsica), Georgia, Greece, Germany, Ireland, Italy (incl. Sardinia, Sicily), Lithuania, Luxembourg, Madeira, Malta, Moldova, Montenegro, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Sweden, Tunisia, Ukraine. ['Lebanon', as <i>nitidifrons</i> , error]
<i>nitidifrons</i> Edwards, 1920 [Britain (England)]	
<i>specularifrons</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	
<i>specularifrons</i> (Enderlein, 1921 [June]) (available) [Norway]	
<i>h-nigrum</i> (Santos Abreu, 1922) [Canary Islands (La Palma)]	
<i>insolitum</i> (Santos Abreu, 1922) [Canary Islands (La Palma)]	
<i>maderense</i> (Carlsson, 1963) [Madeira]	
<i>flavitibia</i> (Rivosecchi, 1966) [Italy]	
'C' Rothfels, 1979 ( <i>ornatum</i> cytoform) .....	Britain (En), Norway
'D' Rothfels, 1979 ( <i>ornatum</i> cytoform) .....	Germany, Norway, Balearic Islands (Majorca)
'A' Post, 1980 ( <i>intermedium</i> cytoform) .....	Britain (En)
'B' Post, 1980 ( <i>intermedium</i> cytoform) .....	Britain (En)
'I' Ruiz-Arrondo, Hernández-Triana, Ignjatović-Ćupina, Nikolova, Garza-Hernández, Rodríguez-Pérez, Oteo, Fooks & Curdi, 2018 (molecular form) .....	Spain
'II' Ruiz-Arrondo, Hernández-Triana, Ignjatović-Ćupina, Nikolova, Garza-Hernández, Rodríguez-Pérez, Oteo, Fooks & Curdi, 2018 (molecular form) .....	Spain
<i>nitidipennis</i> , <i>nitidipenuis</i> : incorrect subsequent spellings	
[ <i>ornatum</i> (part): authors (Macaronesian islands), not Meigen]	
<b>iwatense</b> (Shiraki, 1935) .....	Japan (Honshu, Hok); China (Hubei), Korea (South), Siberia (FE incl. Sakhalin)
<i>albatum</i> (Rubtsov, 1962) [Japan (Honshu)]	
<i>ivatensis</i> : incorrect subsequent spelling	
[ <i>ornatum</i> : Bentinck, 1955 / Okada, 1972, not Meigen]	
<b>kanchaveli</b> (Machavariani, 1966) .....	Georgia
<b>kiritschenkoi</b> Rubtsov, 1940 .....	Iran; Armenia, Azerbaijan, Bulgaria, Cyprus, Georgia, Iraq, Pakistan, Romania, Russia (Caucasus), Tajikistan, Turkey, Ukraine
<i>caucasicum</i> Rubtsov, 1940 [Armenia]	
<i>sevanense</i> Rubtsov & Terteryan, 1952 [Armenia]	
<i>cisalpinum</i> (Rubtsov, 1956) [Armenia]	
<i>longicaulis</i> (Rubtsov, 1956) [Russia (Caucasus)]	
<i>abacum</i> (Rubtsov, 1963) (unav., var. post-1960)	
<i>minutistyli</i> (Rubtsov, 1963) (unav., var. post-1960)	
<i>maculitibia</i> (Rubtsov, 1963) (unav., var. post-1960)	
<i>kirishenkoi</i> , <i>kiritchenkoi</i> , <i>kiritschenkoi</i> , <i>kiritschenkoibzov</i> , <i>kiritshentko</i> , <i>kiritshentkovi</i> , <i>kritshenkoi</i> : incorrect subsequent spellings	
<b>mesasiaticum</b> Rubtsov, 1947 .....	Kazakhstan; Kyrgyzstan, Tajikistan, Uzbekistan
<i>mtsasiaticum</i> : incorrect subsequent spelling	

<b>ornatum</b> Meigen, 1818 (complex) .....	Germany; Algeria, Andorra, Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain (CI, En, Sc, Wa), Bulgaria, China (Gu, Jilin, Li, Yu), Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Greece (incl. Crete, Rhodes), Hungary, Ireland, Israel, Italy (incl. Sardinia, Sicily), Jordan, Kazakhstan, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Macedonia, Moldova, Mongolia, Montenegro, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (CR, KM, NR, SR), Serbia, Siberia (ES, FE, WS), Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, Turkmenistan, Ukraine, Uzbekistan. ['Kyrgyzstan error']
<i>fasciatum</i> Meigen, 1830 [Germany]	
<i>crassitarse</i> Macquart, 1834 [Italy (Sicily)]	
<i>tibiale</i> Macquart, 1834 [France]	
<i>pratorum</i> Friederichs, 1920 [Germany]	
<i>konsuloffi</i> (Enderlein, 1924) [Bulgaria]	
<i>primum</i> (Baranov, 1926) ( <i>ornatum</i> form, preocc.) [Serbia]	
<i>secundum</i> (Baranov, 1926) ( <i>ornatum</i> form, preocc.) [Macedonia & Serbia]	
<i>babici</i> (Baranov, 1937) [Macedonia]	
<i>borcici</i> (Baranov, 1937) [Macedonia]	
<i>bartulici</i> (Baranov, 1937) [Serbia]	
<i>guelminoi</i> (Baranov, 1937) [Serbia]	
<i>nikolici</i> (Baranov, 1937) [Serbia]	
<i>anderlicecki</i> (Baranov, 1937) [Serbia]	
<i>zagrebiense</i> (Baranov, 1937) [Croatia]	
<i>barense</i> (Baranov, 1939) [Montenegro]	
<i>arensae</i> Rubtsov, 1940 [Siberia (Magadanskaya)]	
<i>oblimum</i> (Odintsov, 1961) [Russia (Vladimirskaya)]	
<i>hibernale</i> (Rubtsov, 1962) (unav., var. post-1960)	
<i>brevicorne</i> (Rubtsov, 1962) (unav., var. post-1960)	
<i>amnis</i> (Rubtsov, 1962) [Russia (Orlovskaya)]	
<i>curvifila</i> (Rivosecchi, 1963) (unav., form post-1960)	
<i>albifrons</i> (Rubtsov, 1964) (unav., var. post-1960)	
<i>hibernale</i> (Rivosecchi, 1966) (available) [Italy (incl. Sicily)]	
<i>apenninicum</i> (Rivosecchi, 1966) [Italy]	
<i>albifrons</i> (Rubtsov, 1967) (available) [Italy]	
<i>curvifila</i> (Rivosecchi, 1978) (available) [Italy]	
'High hill' Obeng, 1965 (morphoform) .....	Britain (Wales)
'1' Rubtsov, 1967 ( <i>ornatum</i> ssp.) .....	Italy
'2' Rubtsov, 1967 ( <i>ornatum</i> ssp.) .....	Italy
'3' Rubtsov, 1967 ( <i>ornatum</i> ssp.) .....	Italy
'4' Rubtsov, 1967 ( <i>ornatum</i> ssp.) .....	Italy
'5' Rubtsov, 1967 ( <i>ornatum</i> ssp.) .....	Italy
'6' Rubtsov, 1967 ( <i>ornatum</i> ssp.) .....	Italy
'7' Rubtsov, 1967 ( <i>ornatum</i> ssp.) .....	Italy
'B' Rothfels, 1979 (cytoform) .....	Germany (incl. Aachen, type loc. of <i>ornatum</i> )
'A' Post, 1980 (cytoform) .....	Britain (England)
'B' Post, 1980 (cytoform) .....	Britain (England)
'C' Post, 1980 (cytoform) .....	Britain (England)
'E' Post, 1980 (cytoform) .....	Britain (England)
<i>appenninica</i> : incorrect subsequent spelling	
<i>arnata, arnatum, omata, omatum, orata, ormata, ornatam, ornate, ornatha</i> : incorrect subsequent spellings	
<i>borici</i> : incorrect subsequent spelling	
<i>protorum</i> : incorrect subsequent spelling	
[ <i>regelationis</i> : Meigen, 1803, 1804, not Linnaeus]	
[ <i>subornatum</i> : Séguy, 1930, not Edwards]	
<b>pontinum</b> Rivosecchi, 1960 .....	Italy
<i>pontium</i> : incorrect subsequent spelling	
<b>rotundatum</b> (Rubtsov, 1956) .....	Russia (Murmansk KM, CR); Bulgaria, Norway, Poland, Romania, Sweden, Ukraine
<b>savici</b> (Baranov, 1937) .....	Serbia; Croatia
<i>tenuitarsus</i> (Baranov, 1937) (preocc.) [Croatia]	
<i>baranovi</i> Smart, 1944 (subst. name)	
<b>simoffi</b> (Enderlein, 1924) .....	Bulgaria
<b>trifasciatum</b> Curtis, 1839 .....	Britain (England, CI); Algeria, Andorra, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark,
<i>angustimanus</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	

[Note. Many of the supposedly valid species in the *ornatum* group are poorly defined. For example, the status of *baracorne*, *croaticum*, *egregium*, *fontanum*, and *savici* vis-à-vis *ornatum* is uncertain.]

<i>angustimanus</i> (Enderlein, 1921 [June]) (available) [Germany]	France, Germany, Greece, Hungary, Ireland, Italy,
<i>wilhelmiana</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	Lithuania, Morocco, Netherlands, Poland, Portugal,
<i>wilhelmianum</i> (Enderlein, 1921 [June]) (available) [Germany]	Slovakia, Slovenia, Spain, Switzerland, Turkey,
<i>nigriperna</i> (Enderlein, 1922) [France]	Ukraine
<i>odagmiina</i> (Enderlein, 1922) [Germany]	
<i>spinosum</i> Doby & Deblock, 1957 [Austria]	
? 'A' Rothfels, 1979 ( <i>ornatum</i> cytoform)	
<i>sciatum</i> : incorrect subsequent spelling	

PARNASSUM species-group

<b>parnassum</b> Malloch, 1914 .....	USA (New Hampshire, Ala, Con, Geo, Maine, Mas,
<i>rileyianum</i> (Enderlein, 1922) [USA (New York)]	Misr, NC, NJ, NY, Pen, SC, Ten, Ver, Vir, WV);
<i>hydationis</i> Dyar & Shannon, 1927 [USA (Virginia)]	Canada (Lab, NB, NS, Ont, Que)
<i>parnassium</i> : incorrect subsequent spelling	

PAVLOVSKII species-group

<b>acrotrichum</b> Rubtsov, 1956 .....	Uzbekistan; Kazakhstan, Mongolia, Siberia (ES, WS)
[ <i>flavidum</i> : Rubtsov, 1951 (part)]	
<b>apricarium</b> Adler, Currie & Wood, 2004 .....	USA (Wyoming, Ari, Cal, Col, Idaho, Mon, Neb, NM,
<i>apricorium</i> : incorrect subsequent spelling	Utah, Was)
'IIL-7' Shields, 2021	
[ <i>arcticum</i> (part): authors (Nebraska), not Malloch]	
<b>arcticum</b> s. str. ....	Canada (British Columbia, Alb, Sask); USA (Idaho,
'IIL-3' Shields & Procnier, 1982 (cytoform, typical)	Mon, Was, Wyo)
'IIL-3, 23, 24' Shields, Christianes, Van Leuven & Hartman, 2009 (cytoform)	
'IIL-22' Shields, Christianes, Van Leuven & Hartman, 2009 (cytoform)	
'IIL-23' Shields, 2021 (cytoform)	
<i>articum</i> : incorrect subsequent spelling	
<b>arcticum</b> Malloch, 1914 (complex)** .....	Canada (British Columbia, Alb, Nun, NWT, Sask);
	USA (Alaska, Cal, Idaho, Mon, Nev, Ore, Was, Wyo)
'1' Adler, Currie & Wood, 2004 (cytoform) .....	USA (Nev)
'2' Adler, Currie & Wood, 2004 (cytoform) .....	USA (Ore)
'IIL-57, 58' Conflitti, Kratochvil, Spironello, Shields & Currie, 2010 (attrib. Adler, Currie & Wood)	
'3' Adler, Currie & Wood, 2004 (cytoform) .....	USA (Mon)
'IIL-13' Shields, 2010 [ <i>in</i> Conflitti, Kratochvil, Spironello, Shields & Currie] (cytoform)	
'4' Adler, Currie & Wood, 2004 (cytoform) .....	USA (Idaho, Mon, Was)
'IIL-9' Shields, Pickens, Clausen & Strizich, 2007 (cytoform)	
'IIL-19' Shields, Pickens, Clausen & Strizich, 2007 (cytoform)	
'IIL-9, 20' Conflitti, Kratochvil, Spironello, Shields & Currie, 2010 (cytoform)	
'5' Adler, Currie & Wood, 2004 (cytoform) .....	USA (Mon)
'IIL-10' Shields, Pickens, Clausen & Strizich, 2007 (cytoform)	
'6' Adler, Currie & Wood, 2004 (cytoform) .....	Canada (NWT)
'IIL-14' Conflitti, Kratochvil, Spironello, Shields & Currie, 2010	
'7' Adler, Currie & Wood, 2004 (cytoform) .....	USA (Mon)
'IIL-15' Shields, 2010 [ <i>in</i> Conflitti, Kratochvil, Spironello, Shields & Currie] (cytoform)	
'8' Adler, Currie & Wood, 2004 (cytoform) .....	Canada (BC[?], NWT)
'IIL-16' Conflitti, Kratochvil, Spironello, Shields & Currie, 2010	
'9' Adler, Currie & Wood, 2004 (cytoform) .....	USA (Idaho, Mon, Was)
'IIL-17' Shields, 2010 [ <i>in</i> Conflitti, Kratochvil, Spironello, Shields & Currie] (cytoform)	





<i>relictum</i> Rubtsov, 1939 (unav., <i>nomen nudum</i> )	Ukraine, USA (Alaska, Maine, Mas, Mic, Min, NH,
<i>relictum</i> Rubtsov, 1940 [Siberia (Irkutskaya)]	NY, Ver, Wis)
<i>forsi</i> (Carlsson, 1962) [Sweden]	
‘II’ Puri, 1926 ( <i>Simulium</i> sp.)	
<i>marmanum</i> : incorrect subsequent spelling	
[ <i>tenuimanus</i> : Rubtsov, 1956, not Enderlein]	
[ <i>rostratum</i> : Rubtsov, 1962 / Patrusheva, 1982 / Rubtsov & Yankovsky, 1988, not Lundström]	
<b>negativum</b> Adler, Currie & Wood, 2004 .....	USA (Wyoming, Alaska, Col, Mon, Nev, NM, Utah);
‘IL-3.4’ Shields & Procunier, 1982 ( <i>arcticum</i> cytoform)	Canada (Alb, Yukon)
<b>omorii</b> (Takahasi, 1942) .....	China (Heilongjiang)
<i>omoru</i> : incorrect subsequent spelling	
<b>pavlovskii</b> Rubtsov, 1940 .....	Siberia (Maritime FE incl. Sakhalin, ES, Altai WS);
<i>ishikawai</i> Takahasi, 1940 [China (Inner Mongolia)]	China (He, IM, Xi), Mongolia, Ukraine (?)
<i>ishikawae</i> , <i>ishilawai</i> : incorrect subsequent spellings	
<i>pavlorskii</i> , <i>pavlovski</i> , <i>pavlovskii</i> : incorrect subsequent spellings	
<b>rubroflavifemur</b> Rubtsov, 1940 .....	China (Xinjiang)
<i>rubvoflavifemur</i> : incorrect subsequent spelling	
<b>saxosum</b> Adler, Currie & Wood, 2004 .....	USA (California, Alaska, Idaho, Ore, Was); Canada (Alb,
‘IIL-2’ Shields & Procunier, 1982 ( <i>arcticum</i> cytoform)	BC incl. Queen Charlotte Islands, Yukon)
‘IIL-81’ Shileds & Shields, 2021 (cytoform)	
<b>tumninum</b> (Bodrova, 1989) .....	Siberia (Khabarovsk FE)
<b>vampirum</b> Adler, Currie & Wood, 2004 (subst. name, for <i>simile</i> ) .....	Canada (Saskatchewan [neotype], Alb, NWT)
<i>simile</i> Cameron, 1918 (attrib. Malloch) (preocc.) [Canada (Sask)]	
‘IIS-8.9’ Procunier & Shemanchuk, 1983 ( <i>arcticum</i> cytoform)	
‘IIS-10’ Procunier & Shemanchuk, 1983 ( <i>arcticum</i> cytoform)	
‘IIS-10 (IL-8)’ Procunier & Shemanchuk, 1983 ( <i>arcticum</i> cytoform)	
‘IIS-10.11’ Procunier, 1984 ( <i>arcticum</i> cytoform)	
‘IIL-8’ and ‘IIS-10–IIL-8’ Shields, 2021 (lapsus for ‘IIS-10’)	
[ <i>arcticum</i> : authors, not Malloch]	
‘IIL-1’ Shields & Procunier, 1982 ( <i>arcticum</i> cytospecies) .....	Canada (Alb, Man), USA (Alaska)
‘IIS-4’ Procunier, 1984 ( <i>arcticum</i> cytospecies) .....	Canada (Alb)

#### PETERSONI species-group

<b>petersoni</b> Stone & DeFoliart, 1959 .....	USA (Wyoming, Cal, Idaho, Nev, Ore, Utah)
‘#3’ Peterson, 1955 ( <i>Simulium</i> sp.)	

#### REPTANS species-group

<b>banaticum</b> Dinulescu, 1966 .....	Romania
<b>colombaschense</b> (Scopoli, 1780) [usually attrib. Fabricius, 1787] (complex) .....	Serbia; Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Germany, Greece, Hungary, Italy, Macedonia, Romania, Slovakia, France (?). [‘Lithuania’ error]
<i>lanio</i> (Linnaeus, 1771) [‘Bannat’ (middle Danube region)]	
<i>colombaschensis</i> Gmelin 1790 [justified emendation of <i>columbacensis</i> Scopoli]	
<i>columbacense</i> (Schoenbauer, 1795) [Serbia/Romania]	
<i>flaviventre</i> Strobl, 1898 [Bosnia and Herzegovina]	
<i>violaceum</i> Enderlein, 1922 [‘Banat’, Hungary or Romania]	[For dating and authorship of <i>colombaschense</i> , see Thompson, Entomological News 112: 125-128 (2001)]
<i>profundale</i> Baranov, 1937 [Serbia]	
<i>litorale</i> Baranov, 1937 [Serbia]	
<i>intermedium</i> (Baranov, 1939) (preocc.) [Serbia]	
‘A’ Adler, Kúdelová, Kúdela, Seitz & Ignjatović-Ćupina, 2016 (cytospecies, typical) .....	Austria, Germany, Romania, Slovakia
‘B’ Adler, Kúdelová, Kúdela, Seitz & Ignjatović-Ćupina, 2016 (cytotype) .....	Italy
‘C’ Adler, Kúdelová, Kúdela, Seitz & Ignjatović-Ćupina, 2016 (cytoform) .....	Greece

‘D’ Adler, Kúdelová, Kúdela, Seitz & Ignjatović-Ćupina, 2016 (cytoform) .....	Greece
‘E’ Adler, Kúdelová, Kúdela, Seitz & Ignjatović-Ćupina, 2016 (cytoform) .....	Slovakia
<i>colobatzensis</i> , <i>colombachense</i> , <i>colombascenze</i> , <i>colombaschense</i> , <i>columbacsense</i> , <i>columbascenze</i> , <i>columbaschense</i> , <i>columbaszense</i> , <i>columbatczensis</i> , <i>columbatschense</i> , <i>columbatzense</i> , <i>columbazcense</i> , <i>columlaczense</i> , <i>imbaczense</i> , <i>kolumbatzense</i> : incorrect subsequent spellings	
<i>Ianio</i> : incorrect subsequent spelling	
<b>flavicans</b> Rubtsov, 1956 .....	Uzbekistan
<b>flavigaster</b> Rubtsov, 1969 .....	Mongolia; Siberia (ES)
<b>gansuense</b> Chen, Jiang & Zhang, 2016 [ <i>in</i> Chen] .....	China (Gansu)
<b>kurense</b> Rubtsov & Djafarov, 1951 .....	Azerbaijan; Armenia, Georgia, Uzbekistan
<i>shachbuzicum</i> Djafarov, 1960 [Azerbaijan]	
<b>latitarsus</b> Rubtsov, 1971 .....	Mongolia
<i>mongolense</i> Yankovsky, 1996 (unnecessary subst. name)	
<b>liriense</b> Rivosecchi, 1961 .....	Italy
<b>parvum</b> Enderlein, 1921 [June] .....	‘Europe’
<i>parvum</i> Enderlein, 1921 [April] (unav., <i>nomen nudum</i> )	
<b>pulchripes</b> Austen, 1925 .....	Turkey
<b>remotum</b> Rubtsov, 1956 .....	China (Beijing area)
<b>reptans</b> (Linnaeus, 1758) (complex) .....	Sweden/‘Lapland’; Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain (En, Sc, Wa), Bulgaria, China (He, Xi), Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russia (CR, KM, NR incl. Novaya Zemlya, SR), Serbia, Siberia (ES, WS), Slovakia, Spain, Switzerland, Tunisia, Turkey, Ukraine, Uzbekistan
<i>nigrum</i> (Linnaeus, 1746, <i>niger</i> ) (no status, pre-1758 name)	
<i>sanguinarium</i> (Pallas, 1771) [Russia (Volga River)]	
<i>argyropeza</i> (Meigen, 1804) [Germany]	
<i>varipes</i> (Meigen, 1818) (unav., publ. as synonym)	
<i>elegans</i> Meigen, 1818 [Germany]	
<i>cinctum</i> Meigen, 1830 [Germany]	
<i>nana</i> Zetterstedt, 1837 (unav., <i>nomen nudum</i> )	
<i>nanum</i> Zetterstedt, 1838 [Sweden]	
<i>pictum</i> Meigen, 1838 [Germany]	
? <i>humerale</i> Zetterstedt, 1855 [Sweden]	
<i>galeratum</i> Edwards, 1920 [Britain (England)]**, ††††	
<i>latimanus</i> Enderlein, 1921 [April] (unav., <i>nomen nudum</i> )	
<i>latimanus</i> Enderlein, 1921 [June] (available) [Britain (England)]†	
<i>heidenreichi</i> Enderlein, 1921 [Germany]	
<i>heringi</i> Enderlein, 1925 [Poland]	
<i>ornatoides</i> Baranov, 1926 (valid emendation of <i>ornatoide</i> ) [Serbia]	
<i>calopum</i> Baranov, 1926 [Serbia]	
<i>pseudocolumbaczense</i> Baranov, 1937 [Serbia]	
<i>tumanicum</i> Baranov, 1937 [Serbia]	
<i>vardaricum</i> Baranov, 1937 [Macedonia]	
<i>pukovacense</i> Baranov, 1937 [Macedonia]	
<i>glumovoense</i> Baranov, 1937 [Macedonia]	
<i>agnatum</i> Baranov, 1937 [Serbia]	
? <i>knechteli</i> Dinulescu, 1966 [Romania]	
‘2’ Muráriková, 2005 (morphoform)	
‘A’ Day, Goodall & Post, 2008 (molecular form)	
‘B’ Day, Goodall & Post, 2008 (molecular form)	
‘reptans A’ Kúdela, Jedlička, Brúderová & Bernotiene, 2012 (molecular form) .....	Britain (Wa), Sweden
‘reptans B’ Kúdela, Jedlička, Brúderová & Bernotiene, 2012 (molecular form) .....	Britain (Wa), Croatia, Hungary, Latvia, Lithuania, Macedonia, Slovakia, Sweden
<i>galeratm</i> : incorrect subsequent spelling	
<i>glumovense</i> : incorrect subsequent spelling	
<i>ornatoide</i> : incorrect original spelling	

<i>pukovaense</i> : incorrect subsequent spelling	
<i>retans</i> : incorrect subsequent spelling	
<i>sangvinarium</i> : incorrect subsequent spelling	
<b>reptantoides</b> Carlsson, 1962 (complex) .....	[unspecified European]; Bosnia and Herzegovina, Britain (En, Wa), Bulgaria, Croatia, Germany, Montenegro, Serbia, Slovakia
‘ <i>reptantoides</i> A’ Kúdela, Jedlička, Brúderová & Bernotiene, 2012 (molecular form) .....	Bosnia and Herzegovina, Britain (En, Wa), Bulgaria, Croatia, Germany, Hungary, Serbia, Slovakia
‘ <i>reptantoides</i> B’ Kúdela, Jedlička, Brúderová & Bernotiene, 2012 (molecular form) .....	Albania, Bosnia and Herzegovina, Britain (En, Wa), Bulgaria, Germany, Hungary, Montenegro, Serbia, Slovakia
<i>reptanoides</i> , <i>reptantodes</i> , <i>reptantoides</i> : incorrect subsequent spellings	
[ <i>galeratum</i> : Day, Goodall & Post, 2008, not Edwards]**, ††††	
<b>tanetchowi</b> Yankovsky, 1996 (subst. name, malformed) .....	China (Beijing)
<i>rheophilum</i> Tan & Chow, 1976 (preocc.)	
<i>tanetchovi</i> : incorrect subsequent spelling	
<b>tarnogradskii</b> Rubtsov, 1940 .....	Russia (Caucasus); Armenia, Azerbaijan, China (Xi), Georgia, Uzbekistan
<i>tarnogradskiyi</i> , <i>tarnograskii</i> : incorrect subsequent spellings	
<b>voilense</b> Sherban, 1960 .....	Romania; Croatia, Hungary, Italy, Serbia, Slovakia, Ukraine
<b>zetterstedti</b> Carlsson, 1962† .....	Sweden

#### SLOSSONAE species-group

<b>nemuroense</b> Takaoka & Saito, 2002 .....	Japan (Hokkaido)
<b>rugglesi</b> Nicholson & Mickel, 1950 .....	USA (Minnesota, Alaska, Maine, Mic, Wis); Canada (Alb, Lab, Man, NB, NWT, Ont, Que, Sask)
‘M’ Fredeen, 1951 (thesis) ( <i>Simulium</i> sp.)	
<i>ruggle</i> , <i>ruggles</i> : incorrect subsequent spelling	
[ <i>bracteatum</i> : Walker, 1927, not Coquillett]	
[ <i>venustum</i> : O’Roke, 1930, 1931, 1934, not Say 1823]	
[ <i>venustum</i> : Fallis, Davies & Vickers, 1951, not Say 1823]	
<b>slossonae</b> Dyar & Shannon, 1927 .....	USA (Florida, Ala, Ark, Geo, Lou, NC, SC, Texas, Vir)
<i>slossonal</i> : incorrect subsequent spelling	
<b>transiens</b> Rubtsov, 1940 .....	Siberia (Irkutskaya ES, FE, WS); Canada (Alb, BC, Man, NWT, Sask, Yukon), China (IM), Finland, Latvia, Mongolia, Poland, Russia (CR, KM, NR), Sweden, USA (Alaska)
<i>transiens</i> [and <i>transins</i> , lapsus] Rubtsov, 1939 (unav., <i>nomen nudum</i> )	
‘R’ Fredeen, 1951 (thesis) ( <i>Simulium</i> sp.)	
‘var.’ Odintsov, 1961 (morphoform)	
<i>trinsiens</i> , <i>trinsiens</i> : incorrect subsequent spellings	

#### STRIATUM species-group

<b>argyrocinctum</b> De Meijere, 1913 .....	Indonesia (Java, Sumatra)
<b>bagmaticum</b> Maskey, 1987 [1985] .....	Nepal
<b>bahense</b> Chen, 2003 .....	China (Yunnan)
<i>behense</i> : incorrect original spelling	
<b>baliense</b> Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya’cob, Chen, Lau, Low & Suana] .....	Indonesia (Bali, Lombok)
<b>beniense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>chainpureense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>chiangmaiense</b> Takaoka & Suzuki, 1984§§. §§§ .....	Thailand; Bhutan, Burma, China (Yu), Vietnam [Pangjanda & Pramual, 2017 treat <i>chiangmaiense</i> as synonym of <i>nakhonense</i> ]
<b>consimile</b> Puri, 1932 .....	India (Punjab, HP); Pakistan, Sri Lanka
<b>dadagaunense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka,	

	Shrestha & Dangi] .....	Nepal
<b>grisescens</b> Brunetti, 1911 .....		India (West Bengal, ArP, Assam, HP, Ka, Ke, Ma, Me, Mr, Na, Pu, TN); Bhutan, Nepal, Pakistan, Taiwan. ['Japan', 'Korea', 'Thailand' errors]
<i>longiunguis</i> (Enderlein, 1936) [Taiwan]		
<i>gresescens</i> : incorrect subsequent spelling		
<b>jeffreyi</b> Takaoka & Davies, 1995 .....		Malaysia (Malaya); Vietnam
<b>kapuri</b> Datta, 1975 .....		India (Assam, WB)
<b>kariyai</b> (Takahasi, 1940)* .....		China (Inner Mongolia)
<b>lineothorax</b> Puri, 1932 .....		India (Assam, TN)
<b>maeklongkeense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Aupalee, Saeung, Srisuka, Fukuda, Junkum, Pitasawat & Takaoka] .....		Thailand
<b>menglaense</b> Chen, 2003 .....		China (Yunnan, Hainan)
<b>nakhonense</b> Takaoka & Suzuki, 1984 .....		Thailand; Burma, China (Hainan), Vietnam
<i>nakhnense, nakhoensis, nakhorensis</i> : incorrect subsequent spellings		
<b>nujiangense</b> Xue, 1993 .....		China (Yunnan)
<b>pallidum</b> Puri, 1932 .....		India (Punjab, HP); Nepal, Pakistan
<b>palmatum</b> Puri, 1932 .....		India (Maharashtra, Ka, Ke)
<b>perakense</b> Takaoka, Ya'cob & Sofian-Azirun, 2018 .....		Malaysia (Malaya)
<b>phraense</b> Takaoka, Srisuka & Saeung, 2018 [ <i>in</i> Takaoka, Srisuka, Low & Saeung] .....		Thailand
<b>pingtungense</b> Huang & Takaoka, 2008 .....		Taiwan
<b>poolpholi</b> Takaoka, Srisuka & Saeung, 2023 [ <i>in</i> Srisuka, Takaoka, Aupalee & Saeung] .....		Thailand
<b>pothigaiense</b> Anbalagan, 2018 [ <i>in</i> Anbalagan, Vijayan, Balachandran, Dinakaran & Krishnan] .....		India (Tamil Nadu)
<b>quinquestriatum</b> (Shiraki, 1935) .....		Taiwan; China (Anhui, Fu, Gd, Gu, Hainan, HK, Hubei, Jx, Li, Si, Tibet, Yu), Korea (South), Vietnam. ['Japan', 'Thailand' errors]
<i>5-striatum</i> : incorrect original spelling		
<i>quinquestriatum, quinquentriatum, quinquestratum, S-striatum</i> : incorrect subsequent spellings		
[ <i>grisescens</i> : Bentinck, 1955, not Brunetti]		
<b>saccatum</b> (Rubtsov, 1956) .....		China (Shandong); Siberia (Maritime FE)
<i>saceatum</i> : incorrect subsequent spelling		
<b>salyanense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....		Nepal
<b>striatum</b> Brunetti, 1912 .....		Sri Lanka; Bhutan, India (Ka, Ke, Ma, TN)
<i>latistriatum</i> Senior-White, 1922 [India (Tamil Nadu)]		
<i>cinquestriatum</i> : incorrect subsequent spelling (lapsus for <i>striatum</i> )		
<b>subpalmatum</b> Davies & Györkös, 1992 .....		Sri Lanka
<b>tadtonense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Aupalee, Saeung, Srisuka, Fukuda, Junkum, Pitasawat & Takaoka] .....		Thailand
<b>tanegashimaense</b> Takaoka & Otsuka, 2021 [ <i>in</i> Takaoka, Otsuka, Huang, Low, Fukuda & Ya'cob] .....		Japan (Hon, Ky, NI, Sh)
[ <i>quinquestriatum</i> (part): authors (Japan), not Shiraki]		
<b>tavanense</b> Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau, Low, Pham & Adler] .....		Vietnam
<b>taythienense</b> Takaoka, Sofian-Azirun & Ya'cob, 2014 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....		Vietnam
<b>thailandicum</b> Takaoka & Suzuki, 1984 .....		Thailand; China (Yu), Vietnam
<i>thailandieum</i> : incorrect subsequent spelling		
<b>thilorsuense</b> Takaoka, Srisuka & Saeung, 2022 [ <i>in</i> Aupalee, Srisuka, Saeung & Takaoka] .....		Thailand
<b>valparaiense</b> Anbalagan, 2018 [ <i>in</i> Anbalagan, Vijayan, Balachandran, Dinakaran & Krishnan] .....		India (Tamil Nadu)
<b>wangkwaense</b> Takaoka, Srisuka & Saeung, 2020 [ <i>in</i> Aupalee, Saeung, Srisuka, Fukuda, Junkum, Pitasawat & Takaoka] .....		Thailand
[ <i>quinquestriatum</i> (part): authors (Thailand), not Shiraki]		
<b>wuzhishanense</b> Chen, 2003 .....		China (Hainan)
<b>xuandai</b> Takaoka, Sofian-Azirun & Ya'cob, 2014 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] .....		Vietnam; Burma

<b>yanaense</b> Anbalagan, 2019 [ <i>in</i> Anbalagan, Vijayan, Balachandran & Dinakaran] .....	India (Karnataka)
<b>yanpingense</b> Takaoka & Huang, 2021 [ <i>in</i> Takaoka, Otsuka, Huang, Low, Fukuda & Ya'cob] .....	Taiwan
'B' Takaoka & Davies, 1995 ( <i>Simulium</i> sp.) .....	Malaysia (Malaya)
'nr. <i>striatum</i> ' Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] ( <i>Simulium</i> sp.) .....	Nepal

TUBEROSUM species-group

<b>aeneifacies</b> Edwards, 1933 .....	Malaysia (Sabah)
<i>aenifacies</i> : incorrect subsequent spelling	
<b>alberti</b> Takaoka, 2008 .....	Malaysia (Sabah, Sarawak)
<b>angustifilum</b> Rubtsov, 1947 .....	Tajikistan
<i>anguslifilum</i> , <i>angustifilium</i> , <i>angustiphilum</i> : incorrect subsequent spellings	
<b>annulitarse</b> Zetterstedt, 1838 .....	Sweden; Canada (Nun), Finland, Russia (CR, KM), Siberia (FE)
<i>annulitarsis</i> Zetterstedt, 1837 (unav., <i>nomen nudum</i> )	
<i>minutissimum</i> Zetterstedt, 1850 [Sweden]	
'FGIO' Adler & Kuusela, 1994 ( <i>tuberosum</i> cytoform)	
<b>appalachiense</b> Adler, Currie & Wood, 2004 .....	USA (South Carolina, Ala, Geo, Ken, Maine, Mar, Mas, Mic, NC, NH, NJ, NY, Pen, Ten, Vir, Wis, WV); Canada (Ont, Que)
'CDE' Landau, 1962 ( <i>tuberosum</i> cytoform)	
'CDE-2' Mason, 1982 ( <i>tuberosum</i> cytoform)	
'CDEM' Mason, 1984 ( <i>tuberosum</i> cytoform)	
<b>arisanum</b> Shiraki, 1935 .....	Taiwan. ['Japan' error]
<i>arishanum</i> : incorrect subsequent spelling	
<b>brevipar</b> Takaoka & Davies, 1995 .....	Malaysia (Malaya); Indonesia (Sumatra), Thailand, Vietnam
'A' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 (cytoform, typical) .....	
Malaysia (Malaya)	
'C' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 (cytoform) .....	
Vietnam	
<b>chromocentrum</b> Adler, Currie & Wood, 2004 .....	USA (California)
<b>congi</b> Takaoka & Sofian-Azirun, 2015 [ <i>in</i> Takaoka, Sofian- Azirun, Ya'cob, Chen, Lau & Pham] .....	Vietnam
<b>conundrum</b> Adler, Currie & Wood, 2004 .....	USA (West Virginia, Ala, Geo, Ken, Mic, NC, NH, NY, Pen, SC, Ten, Vir); Canada (Alb, BC, Lab, NB, Nfld, NWT, Ont, PEI, Que incl. Magdalen Islands, Sask)
'FGH' Landau, 1962 ( <i>tuberosum</i> cytoform)	
<b>corpulentum</b> Rubtsov, 1956 .....	Russia (Permskaya CR, SR)
<b>dailekhense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<i>ramosum</i> : Shrestha & Takaoka, 2009, not Puri]	
<b>doipuiense</b> Takaoka & Choochote, 2005 (complex) .....	Thailand; Vietnam
'E' Takaoka & Suzuki, 1984 ( <i>Simulium</i> sp.)	
'A' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform, typical)	
'B' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	
'D' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 (cytoform)	
'E' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 (cytoform)	
'F' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 (cytoform)	
<i>rufibasis</i> : Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham, 2014, not Brunetti]	
<b>fuscicoxae</b> Takaoka & Ya'cob, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
'C' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 ( <i>doipuiense</i> cytoform)	

[ <i>rufibasis</i> : Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham, 2015, not Brunetti]	
<b>giayense</b> Takaoka & Low, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam. [? = <i>doipuiense</i> 'A']
<b>gusevi</b> Rubtsov, 1976 .....	Russia (Kuybyshev CR)
<b>hehuanense</b> Takaoka, 2021 [ <i>in</i> Takaoka, Low, Huang, Fukuda & Ya'cob] .....	Taiwan
[ <i>rufibasis</i> : Takaoka, 1979, not Brunetti]	
<b>huense</b> Takaoka & Ya'cob, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau, Low, Pham & Adler] (subst. name).....	Vietnam. [? = <i>yuphae</i> ]
<i>cavum</i> Takaoka & Ya'cob, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] (preocc.)	
<b>janzeni</b> Enderlein, 1922 .....	Austria; Latvia, Romania
'4' Kunze, 1953 ( <i>Simulium</i> species)	
<b>jasmoni</b> Takaoka, Sofian-Azirun & Belabut, 2012 .....	Malaysia (Malaya)
<b>jianshiense</b> Takaoka, Otsuka & Adler, 2021 [ <i>in</i> Takaoka, Otsuka, Low, Adler, Fukuda, Huang & Ya'cob] .....	Taiwan
'L' Adler, Huang, Reeves, Kim, Otsuka & Takaoka, 2013 ( <i>tani</i> cytoform)	
'cryptic species' Low, Takaoka, Pramual, Adler, Ya'cob, Huang, Pham, Ramli, Chen, Wannaket & Sofian-Azirun, 2016 ( <i>tani</i> molecular form)	
<b>jugatum</b> Boldarueva, 1979 .....	Siberia (Buryatskaya ES)
<i>jugotum</i> , <i>qugatum</i> : incorrect subsequent spelling	
<b>keningauense</b> Takaoka, 2008 .....	Malaysia (Sabah, Sarawak); Indonesia (Kalimantan)
[ <i>sabahense</i> : Smart & Clifford, 1969 (part)]	
<b>langtangense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
[ <i>rufibasis</i> : Shrestha & Takaoka, 2009, not Brunetti]	
<b>lowi</b> Takaoka & Adler, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
'B' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 ( <i>brevipar</i> cytoform)	
[ <i>brevipar</i> : Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham, 2015, not Takaoka & Davies]	
<b>lunduense</b> Takaoka, 2008 .....	Malaysia (Sarawak)
<b>mainitense</b> Takaoka & Tenedero, 2019 .....	Philippines (Palawan)
<b>manooni</b> Takaoka & Choochote, 2005 .....	Thailand
'species 1' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	
<b>masilauense</b> Takaoka, 2008 .....	Malaysia (Sabah)
<b>nakanoi</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>neorufibasis</b> Sun, 1994 .....	China (Liaoning)
<i>neorufibasis</i> : incorrect subsequent spelling	
<b>nigrifacies</b> Datta, 1974 .....	India (West Bengal); Burma, China (Tibet)
<b>nitidithorax</b> Puri, 1932 .....	India (West Bengal, ArP); China (Fu, Hainan, Tibet). [‘Thailand’ error]
<i>nitidithorax</i> : incorrect subsequent spelling	
<b>perissum</b> Dyar & Shannon, 1927 .....	USA (Virginia, Ala, Ark, Geo, Ill, Ind, Iowa, Kan, Ken, Lou, Maine, Mar, Min, Misp, Misr, Neb, NJ, Ohio, Okl, Pen, SC, Ten, Texas, Wis, WV); Canada (Ont)
'CKL' Landau, 1962 ( <i>tuberosum</i> cytoform)	
[ <i>tuberosum</i> (part): authors (Nebraska), not Lundström]	
<b>polare</b> Rubtsov, 1940 .....	Siberia (Taymyrsky WS, ES); Russia (NR, SR)
<b>pradyai</b> Takaoka, 2008 .....	Bhutan; India (ArP), Nepal
<b>prominentum</b> Chen & Zhang, 2002 .....	China (Guizhou)
<b>puliense</b> Takaoka, 1979 .....	Taiwan
<b>pullus</b> Rubtsov, 1956 .....	Uzbekistan
<b>quasifrenum</b> Delfinado, 1971 .....	Philippines (Palawan)
<b>ramosum</b> Puri, 1932 .....	India (Himachal Pradesh, WB); Pakistan. [‘Nepal’ error]
<b>rangjungense</b> Takaoka & Somboon, 2008 .....	Bhutan

<b>rosliramlii</b> Takaoka & Chen, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
'B' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 ( <i>rufibasis</i> cytoform and morphoform)	
<b>rufibasis</b> Brunetti, 1911 .....	India (West Bengal, ArP, HP, Me, Mr, Sik); Burma,
<i>fasciatum</i> Puri, 1932 (preocc.) [India (Himachal Pradesh)]	China (Anhui, Fu, Gu, Hubei, Li, Si, Tibet, Yu),
<i>rafibasis</i> , <i>refibasis</i> , <i>rufiasis</i> , <i>rufebasis</i> , <i>rufinasis</i> : incorrect subsequent spellings	Pakistan, Nepal (?). ['Japan', 'Korea', 'Taiwan', 'Thailand', 'Vietnam' errors]
<b>rugosum</b> Wu, Wen & Chen, 2013 .....	China (Jilin)
<b>ryukyuense</b> Ogata, 1966 .....	Japan (Nansei Islands)
'D' Adler, Huang, Reeves, Kim, Otsuka & Takaoka, 2013 ( <i>suzukii</i> cytoform)	
<b>sabahense</b> Smart & Clifford, 1969 .....	Malaysia (Sabah, Sarawak); Indonesia (Kalimantan)
<b>sanyaense</b> Cai, Liu & An, 2016 .....	China (Hainan)
<b>sapaense</b> Takaoka & Low, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
'Sapa' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 (morphoform)	
'B' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 ( <i>yuphae</i> cytoform)	
<b>setsukoae</b> Takaoka & Choochote, 2004 .....	Thailand
'D' Takaoka & Suzuki, 1984 ( <i>Simulium</i> sp.)	
'H' Thanwisai, 2004 (thesis) ( <i>Simulium</i> sp.)	
'nr. <i>rufibasis</i> ' Thanwisai, Kuvangkadilok & Baimai, 2006 ( <i>Simulium</i> sp.)	
<b>sigiti</b> Takaoka & Hadi, 1991 .....	Indonesia (Java)
<b>splendidum</b> Rubtsov, 1940 .....	Siberia (Irkutskaya ES, FE, WS); China ('Manchuria'), Russia (KM)
<i>splendidum</i> Stukolkina, 1939 (unav., <i>nomen nudum</i> , attrib. Rubtsov)	
<i>splendidum</i> Rubtsov, 1939 (unav., <i>nomen nudum</i> )	
<b>subtile</b> Rubtsov, 1956 .....	Russia (Caucasus); Italy, Romania
<b>suoivangense</b> Takaoka & Pham, 2017 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
'b' Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham, 2015 ( <i>tani</i> morphoform)	
'M' Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 ( <i>tani</i> cytoform)	
<b>suzukii</b> Rubtsov, 1963 .....	Japan (Honshu, Hok, Ky, NI, Sh); China (Gu, HK, Jilin, Jx, Si, Yu), Korea (South), Siberia (FE incl. Sakhalin)
<i>suznkii</i> : incorrect subsequent spelling	
'J' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 ( <i>tani</i> cytoform) .....	China
'A' Adler, Huang, Reeves, Kim, Otsuka & Takaoka, 2013 (cytoform) .....	Korea (South)
'B' Adler, Huang, Reeves, Kim, Otsuka & Takaoka, 2013 (cytoform) .....	Korea (South)
'C' Adler, Huang, Reeves, Kim, Otsuka & Takaoka, 2013 (cytoform, typical) .....	Japan (Hok)
[ <i>tuberosum</i> (part): authors (Japan), not Lundström]	
<b>tani</b> Takaoka & Davies, 1995 (complex) .....	Malaysia (Malaya); Burma, Indonesia (Sumatra), Thailand, Taiwan, Vietnam
'A' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand
'B' Pramual, Kuvangkadilok, Baimai & Walton, 2005 (cytoform)	
'B' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand
'A' Pramual, Kuvangkadilok, Baimai & Walton, 2005 (cytoform)	
'C' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand
'D' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand
'E' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand
'F' Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand

‘G’ Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand
‘H’ Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand
‘I’ Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 (cytoform)	Thailand
‘K’ Adler, Huang, Reeves, Kim, Otsuka & Takaoka, 2013 (cytoform)	Malaysia (Malaya)
‘a’ Takaoka, Sofian-Azirun, Ya’cob, Chen, Lau & Pham, 2015 ( <i>tani</i> morphoform) .....	Thailand, Vietnam
‘cryptic species’ Low, Takaoka, Pramual, Adler, Ya’cob, Huang, Pham, Ramli, Chen, Wannaket & Sofian-Azirun, 2016 (molecular form)	
‘B2’ Adler, Takaoka, Sofian-Azirun, Low, Ya’cob, Chen, Lau & Pham, 2016 (cytoform)	
[ <i>nitidithorax</i> : Crosskey, 1973 / Takaoka & Suzuki, 1984, not Puri]	
<b>tatopaniense</b> Takaoka & Shrestha, 2020 [ <i>in</i> Takaoka, Shrestha & Dangi] .....	Nepal
<b>tenebrosum</b> Takaoka, Srisuka & Saeung, 2018 [2019] [ <i>in</i> Takaoka, Srisuka, Low & Saeung] (complex) .....	Thailand
‘A’ Adler, Takaoka, Sofian-Azirun, Low, Ya’cob, Chen, Lau & Pham, 2016 ( <i>rufibasis</i> cytoform)	
‘nr. <i>rufibasis</i> ’ Takaoka, Srisuka, Low & Saeung, 2019 ( <i>Simulium</i> sp.)	
‘A’ Adler, Srisuka, Low, Takaoka & Saeung, 2019 (cytospecies)	
‘B’ Adler, Srisuka, Low, Takaoka & Saeung, 2019 (cytospecies)	
[ <i>rufibasis</i> : Thailand authors, not Brunetti]	
<b>tianchi</b> Chen, Zhang & Yang, 2003 .....	China (Hainan)
<b>tiomanense</b> Takaoka, Sofian-Azirun & Belabut, 2012 .....	Malaysia (Malaya)
<b>truncatum</b> Guo, Zhang, An, Zhang, Zheng, Dong & Zhao, 2008 (junior primary homonym of <i>truncatum</i> Lundström, 1911, but no available subst. name) .....	China (Xinjiang)
<i>truncosum</i> : incorrect subsequent spelling	
<b>tuberosum</b> (Lundström, 1911)* .....	Finland; Canada (Alb, BC, Lab, Man, NB, Nfld, Nun, NWT, Ont, PEI, Que, Sask, Yukon), Norway, Russia (CR, KM, NR), Siberia (ES, FE, WS), Sweden, USA (Ala, Alaska, Ark, Col, Flo, Geo, Ind, Ken, Maine, Mic, Min, Misp, Misr, Mon, NC, NH, NJ, NM, NY, Ohio, Okl, Pen, SC, Ten, Vir, Wis, WV), Andorra (?), Belarus (?), Belgium (?), Bosnia and Herzegovina (?), Britain [not <i>tuberosum</i> s. str.] (En, Sc, Was), Bulgaria (?), Croatia (?), Czech Republic (?), France (?), Germany [not <i>tuberosum</i> s. str.], Ireland (?), Lithuania (?), Poland (?), Portugal (?), Romania (?), Slovakia (?), Slovenia (?), Spain (?), Switzerland (?), Turkey (?), Ukraine (?). [‘Mexico’ error]
? ‘2’ Jenkins, 1948 ( <i>Simulium</i> sp.)	
‘AB’ Landau, 1962 (cytoform)	
‘A’ Wong, 1976 (thesis) (morphoform)	
‘A’ Mason, 1982 (cytoform)	
‘Y <sub>2</sub> ’ Mason, 1982 (cytoform)	
<i>tuberosu</i> , <i>tuberozum</i> : incorrect subsequent spellings	
<b>tukurongense</b> Takaoka & Tenedero, 2019 .....	Philippines (Palawan)
<b>tumulosum</b> Rubtsov, 1956† .....	Siberia (Irkutskaya ES, FE, WS); China (Jilin), Finland, Mongolia, Norway, Russia (NR), Sweden
<i>tumulsum</i> : incorrect subsequent spelling	
<b>twinni</b> Stains & Knowlton, 1940 .....	USA (Utah, Cal, Col, Mon, Ore, Wyo); Canada (Alb, BC)
‘FG/FG’ McCreadie, Adler & Burger, 1997 ( <i>tuberosum</i> cytoform)	
<b>ubiquitum</b> Adler, Currie & Wood, 2004 .....	USA (South Carolina, Ala, Ark, Del, Flo, Geo, Lou, Misp, NC, NJ, Ten, Texas, Vir)
‘F’ Adler & McCreadie, 1997 ( <i>tuberosum</i> cytoform)	
[ <i>tuberosum</i> (part): authors (southeastern USA), not Lundström]	
<b>vandalicum</b> Dyar & Shannon, 1927 .....	USA (California, Ala, Alaska, Ari, Ark, Col, Con, Geo, Idaho, Ken, Maine, Mas, Mic, Misp, Mon, NC, NH, NJ, NM, NY, Ohio, Ore, Pen, SC, SD, Ten, Utah, Ver, Vir, Was, Wis, WV, Wyo); Canada (Alb, BC, Lab, Man, NB, NS, NWT, Ont, PEI, Que incl. Magdalen Islands, Sask, Yukon), Mexico (Du)
<i>turmale</i> Twinn, 1938 [USA (Utah)]	
‘FG’ Landau, 1962 ( <i>tuberosum</i> cytoform)	
‘B’ Wong, 1976 (thesis) ( <i>tuberosum</i> morphoform)	
<b>vulgare</b> Dorogostaisky, Rubtsov & Vlasenko, 1935 .....	Siberia (Irkutskaya ES, FE, WS); Austria, Canada (Alb, Nun, NWT, Yukon), China (He), Czech Republic,
‘FGI’ Mason, 1982 ( <i>tuberosum</i> cytoform)	



<i>vulgaare, vurgare</i> : incorrect subsequent spellings <i>tuberosum</i> : authors, not Lundström]	Finland, Germany, Kazakhstan, Latvia, Mongolia, Norway, Romania, Russia (CR, NR, SR), Serbia, Slovakia, Sweden, Ukraine, USA (Alaska), Uzbekistan
<b>weji</b> Takaoka, 2001 .....	Thailand
<b>xiulinense</b> Takaoka, 2021 [ <i>in</i> Takaoka, Low, Huang, Fukuda & Ya'cob] .....	Taiwan
<b>xuandei</b> Takaoka & Pham, 2015 [ <i>in</i> Takaoka, Sofian-Azirun, Ya'cob, Chen, Lau & Pham] (complex) .....	Vietnam
‘cryptic species 1’ Low, Takaoka, Pramual, Adler, Ya'cob, Huang, Pham, Ramli, Chen, Wannaket & Sofian-Azirun, 2016	
‘cryptic species 2’ Low, Takaoka, Pramual, Adler, Ya'cob, Huang, Pham, Ramli, Chen, Wannaket & Sofian-Azirun, 2016	
<b>yamatoense</b> Takaoka, Adler & Fukuda, 2019 [2020] [ <i>in</i> Adler, Fukuda, Takaoka, Reeves, Kim & Otsuka] .....	Japan (Kyushu, Hok, Hon, NI, Sh); Korea (South)
‘J-5’ Bentinck, 1955 ( <i>Simulium</i> sp.)	
‘A’ Adler, Fukuda, Takaoka, Reeves, Kim & Otsuka, 2019 [2020] (cytoform, typical) .....	Japan (Ky)
‘B’ Adler, Fukuda, Takaoka, Reeves, Kim & Otsuka, 2019 [2020] (cytoform) .....	Japan (Hon), Korea
[ <i>rufibasis</i> (part): authors (Japan and Korea), not Brunetti]	
<b>yuphae</b> Takaoka & Choochote, 2005 .....	Thailand; Vietnam
‘A’ Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 (cytoform, typical) .....	Thailand
[ <i>brevipar</i> : Takaoka & Saito, 1996 / Thanwisai, Kuvangkadilok & Baimai, 2006, not Takaoka & Davies]	
‘species 2’ Tangkawanit, Kuvangkadilok, Baimai & Adler, 2009 ( <i>Simulium</i> sp.) .....	Thailand
‘N’ Adler, Takaoka, Sofian-Azirun, Low, Ya'cob, Chen, Lau & Pham, 2016 (cytoform) .....	Vietnam

#### VARIEGATUM species-group

<b>argyreatum</b> Meigen, 1838 .....	Germany; Andorra, Austria, Bosnia and Herzegovina, Britain (En, Sc, Wa), Bulgaria, Croatia, Czech Republic, Finland, France, Greece, Hungary, Ireland, Italy, Luxembourg, Macedonia, Montenegro, Norway, Poland, Portugal, Romania, Russia (SR), Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, Kazakhstan (?)
<i>obreptans</i> Edwards, 1920 (unav., publ. as synonym)	
<i>montanum</i> Enderlein, 1921 [April] (unav., <i>nomen nudum</i> )	
<i>montanum</i> Enderlein, 1921 [June] (available, preocc.) [Germany]	
<i>mehelyi</i> Enderlein, 1926 [Slovakia]	
<i>polae</i> Smart, 1944 (subst. name, for <i>montanum</i> )	
<i>celticum</i> Doby & Rault, 1960 [France]	
<i>rheophilum</i> (Knoz, 1961) [Czech Republic]	
<i>daviesi</i> (Rubtsov, 1964) (unav., var. post-1960)	
<i>edwardsi</i> (Rubtsov, 1964) (unav., var. post-1960)	
<i>argireatum, argureatum, argyraetum, arygreatum, argyrestum,</i> <i>rgyreatum</i> : incorrect subsequent spellings	
<i>mehelii</i> : incorrect subsequent spelling	
<i>montnnum</i> : incorrect subsequent spelling	
<i>obreptens</i> : incorrect subsequent spelling	
[ <i>monticola</i> : authors, not Friederichs]	
<b>atlasticum</b> Giudicelli & Bouzidi, 1989 .....	Morocco
<b>barnesi</b> Takaoka & Suzuki, 1984 .....	Thailand; India (ArP)
[ <i>hackeri</i> : Edwards, 1928 (part, Thailand)]	
<b>berberum</b> Giudicelli & Bouzidi, 1989 .....	Morocco
<b>bullae</b> Davies & Györkös, 1987 .....	Sri Lanka
‘b’ Davies, 1984 ( <i>Simulium</i> sp.)	
<b>caohaiense</b> Chen & Zhang, 1997 .....	China (Guizhou)
<b>chamlongi</b> Takaoka & Suzuki, 1984 .....	Thailand; Burma, China (Tibet, Yu), Vietnam
<i>chamlongi, chamlong</i> : incorrect subsequent spellings	
<b>cognatum</b> An & Yan, 2009 .....	China (Tibet)

<b>crassifilum</b> Rubtsov, 1947 .....	Tajikistan; Pakistan, Turkmenistan
<b>cruszi</b> Davies & Györkös, 1992 .....	Sri Lanka
‘C’ Davies, 1984 ( <i>Simulium</i> sp., part)	
<b>debacli</b> Terteryan, 1952 .....	Armenia; Azerbaijan, Bulgaria, Georgia, Romania,
‘aff. <i>variegatum</i> ’ Makarchenko, Semenchenko & Palatov, 2022	Russia (Caucasus), Turkey
<i>depacli</i> : incorrect subsequent spelling	
<b>elongatum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>exile</b> (Rubtsov, 1956) .....	Azerbaijan; Kazakhstan, Romania
<b>flavum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>foliatum</b> Chen, Jiang & Zhang, 2016 [ <i>in</i> Chen] .....	China (Gansu)
<b>globosum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>gribae</b> (Rubtsov, 1956) .....	Tajikistan
<b>gurneyae</b> Senior-White, 1922 .....	India (Tamil Nadu, Ka, Ma)
<i>guineyae</i> , <i>gurineya</i> : incorrect subsequent spellings	
<b>hackeri</b> Edwards, 1928 .....	Malaysia (Malaya)
<i>hacheri</i> : incorrect subsequent spelling	
<b>hanbini</b> Deng, Long, Liang, Zhang, An & Yang, 2012 .....	China (Tibet)
<b>himalayense</b> Puri, 1932 .....	India (West Bengal, ArP, Bihar, HP, Mr, Sik); Bhutan,
? <i>vega</i> (Maskey, 1998) [Nepal]*	Burma, China (Tibet), Nepal, Pakistan
? <i>vega</i> (Maskey, 1986) (thesis) (unav., <i>nomen nudum</i> )	
<i>himalayas</i> , <i>himalyaense</i> , <i>himolayense</i> : incorrect subsequent spellings	
<b>humerosum</b> Rubtsov, 1947 .....	Tajikistan
<b>immortalis</b> Cai, An, Li & Yan, 2004 .....	China (Shanxi)
<b>jingfui</b> Cai, An & Li, 2008 .....	China (Sichuan)
<b>karenkoense</b> (Shiraki, 1935) .....	Taiwan. [‘Japan’ error]
<b>kiewmaepanense</b> Takaoka, Srisuka & Saeung, 2017 .....	Thailand
<b>laplandicum</b> (Chubareva & Yankovsky, 1992) .....	Russia (Murmansk KM)
<i>laplandicum</i> (Chubareva, 1986) (thesis) (unav., <i>nomen nudum</i> )	
<b>laxum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>linduense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>liubaense</b> Liu & An, 2009 .....	China (Shaanxi)
<b>lorense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>luculentum</b> Takaoka, Srisuka & Saeung, 2019 .....	Thailand
<b>luridum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>malinoense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>maximum</b> (Knoz, 1961) .....	Czech Republic; Austria, Bosnia and Herzegovina,
‘2’ Kúdela & Jedlička, 2002 ( <i>monticola</i> morphoform)	Bulgaria, France, Germany, Italy, Poland, Romania,
	Serbia, Slovakia, Spain, Switzerland, Ukraine
<b>molliculum</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>monticola</b> Friederichs, 1920 .....	Germany; Algeria, Andorra, Austria, Azerbaijan,
<i>dorieri</i> Doby & Rault, 1960 [France & Austria]	Belgium, Bosnia and Herzegovina, Bulgaria, Croatia,
<i>petrophilum</i> (Rubtsov, 1964) (unav., var. post-1960)	Czech Republic, Finland, France (incl. Corsica),
<i>stenostylus</i> (Rubtsov & Carlsson, 1965) [Sweden]	Georgia, Italy, Luxembourg, Macedonia, Norway,
<i>dozieri</i> : incorrect subsequent spelling	Poland, Portugal, Romania, Russia (CR, NR, SR),
<i>stenostyla</i> : incorrect subsequent spelling	Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland,
	Ukraine. [‘Britain’ error]
<b>monticoloides</b> (Rubtsov, 1956) .....	Russia (Caucasus); Bulgaria, Georgia, Romania, Turkey,
<i>monticoloide</i> : incorrect subsequent spelling	Ukraine (Crimea)
<b>niha</b> Giudicelli & Dia, 1986 .....	Lebanon; Turkey
<b>nilgircum</b> Puri, 1932 .....	India (Tamil Nadu); Sri Lanka
<i>niginicum</i> , <i>nigiricum</i> , <i>nilgircu</i> , <i>niljiricum</i> : incorrect	
subsequent spellings	
<b>nishijimai</b> (Ono, 1978) .....	Japan (Hokkaido); Siberia (Kurile Islands FE)
<i>nishijimain</i> : incorrect subsequent spelling	
<b>nubis</b> Davies & Györkös, 1987 .....	Sri Lanka
‘C’ Davies, 1984 ( <i>Simulium</i> sp., part)	
<b>oitanum</b> (Shiraki, 1935) .....	Japan (Kyushu, Hok, Hon, NI, Sh); China (Gu, Jilin, Li,
<i>aokii</i> (Takahasi, 1941) [Japan (Honshu)]	Yu), Korea (South), Nepal, Siberia (FE incl. Sakhalin)

<b>palopoense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>paranubis</b> Davies & Györkös, 1992 .....	Sri Lanka
‘C’ Davies, 1984 ( <i>Simulium</i> sp., part)	
<b>pelius</b> Sun, 1994 .....	China (Liaoning)
<i>pedius</i> : incorrect subsequent spelling	
<b>phuluense</b> Takaoka & Sofian-Azirun, 2017 [ <i>in</i> Takaoka, Sofian-Azirun Ya’cob, Chen, Lau, Low, Pham & Adler] .....	Vietnam
<b>qianense</b> Chen & Chen, 2001 .....	China (Guizhou, Hubei)
<b>quinquefilium</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>schamili</b> (Rubtsov, 1964) .....	Russia (Caucasus); Armenia, Georgia
<b>sicanum</b> (Rivosecchi, 1963) .....	Italy (Sicily)
<b>srisukai</b> Takaoka & Saeung, 2017 [ <i>in</i> Takaoka, Srisuka & Saeung] .....	Thailand
<b>stenophallum</b> Terteryan, 1952 .....	Armenia; Azerbaijan
<b>taiwanicum</b> Takaoka, 1979 .....	Taiwan; China (Si, Gu, Jilin, Jx, Si)
<b>tulshii</b> Takaoka & Shrestha, 2010 .....	Nepal
<b>variegatum</b> Meigen, 1818 .....	Germany; Algeria, Andorra, Armenia, Austria, Azerbaijan, Belgium, Bosnia and Herzegovina, Britain (En, Sc, Wa), Bulgaria, Croatia, Czech Republic, France (incl. Corsica), Georgia, Greece (incl. Andros, Rhodes), Hungary, Iran, Ireland, Italy (incl. Sicily), Lebanon, Montenegro, Morocco, Poland, Portugal, Romania, Russia (Caucasus), Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, Kazakhstan (?), Pakistan (?), Uzbekistan (?). [‘Cyprus’ error]
<i>varium</i> Meigen, 1818 [Austria]	
<i>luteicorne</i> Stephens, 1829 (unav., <i>nomen nudum</i> )	
<i>affine</i> Stephens, 1829 (unav., <i>nomen nudum</i> )	
<i>rivulare</i> Planchon, 1844 [France]	
<i>veneficum</i> Friederichs, 1920 [Germany]	
<i>bulgarica</i> (Enderlein, 1921 [April]) (unav., <i>nomen nudum</i> )	
<i>bulgaricum</i> (Enderlein, 1921 [June]) (available) [Bulgaria]	
<i>vernale</i> (Rubtsov, 1956) [Azerbaijan]	
<i>autumnale</i> (Rubtsov, 1956) [Armenia]	
<i>padanum</i> (Rubtsov, 1964) (unav., var. post-1960)	
<i>slovakense</i> (Rubtsov, 1964) (unav., var. post-1960)	
<i>pseudovernale</i> (Rubtsov, 1964) (unav., var. post-1960)	
<i>varegatum</i> , <i>wariegatum</i> : incorrect subsequent spellings	
<i>venifica</i> : incorrect subsequent spelling	
[ <i>livida</i> : Meigen, 1818, not Schellenberg]	
<b>xanthinum</b> Edwards, 1933 .....	Spain; Algeria, France, Morocco
<i>gaudi</i> Grenier & Faure, 1957 [Morocco]	
<i>xantinum</i> : incorrect subsequent spelling	
‘Keris’ Lewis, 1973 ( <i>Simulium</i> sp.) .....	Pakistan
‘1’ Saito, Uemoto & Afzal, 1989 ( <i>Simulium</i> sp.) .....	Pakistan
‘sp. A’ Maskey, 1998 ( <i>Simulium</i> sp.) .....	Nepal
‘sp. B’ Maskey, 1998 ( <i>Simulium</i> sp.) .....	Nepal
‘indet.’ Belqat, Adler & Dakki, 2001 ( <i>Simulium</i> )* .....	Morocco
‘sp.’ Belqat, Adler & Crosskey, 2011 ( <i>Simulium</i> )	
‘1’ Kúdela & Jedlička, 2002 ( <i>monticola</i> morphoform) .....	Slovakia
‘aff. <i>monticola</i> ’ Dušínský, Kúdela, Stloukalová & Jedlička, 2006 ( <i>Simulium</i> sp.)	

#### VENUSTUM species-group

<b>abbreviatum</b> Rubtsov, 1957 .....	Russia (St Petersburg CR); Ukraine
<i>abbreviatum</i> : incorrect subsequent spelling	
<b>aemulum</b> Rubtsov, 1940 (subst. name) .....	Siberia (Irkutskaya ES, FE, WS); China (Li), Mongolia
<i>submorsitans</i> Rubtsov, 1940 (preocc.)	
<i>aenulum</i> , <i>semulum</i> : incorrect subsequent spellings	
[ <i>venustum</i> (part): authors (Mongolia), not Say]	
<b>arakawae</b> Matsumura, 1915 .....	Japan (Hokkaido, Hon, Ky, NI, Sh); China (Jilin, Tibet), Korea (South)
‘Kusa-buyu’ Kani, 1944	
[ <i>venustum</i> (part): authors (Japan), not Say]	
<b>bergi</b> Rubtsov, 1956 .....	Georgia; Armenia, Turkey, Ukraine
<b>curvitaris</b> Rubtsov, 1940 .....	Siberia (Magadan FE, Kamchatka FE); China (He)
<i>cnrvitarsis</i> , <i>curvitaris</i> : incorrect subsequent spellings	

<b>enhense</b> Xu, Yang & Chen, 2016 [ <i>in</i> Chen] .....	China (Inner Mongolia)
<b>hematophilum</b> Laboulbène, 1882 .....	Canada (Newfoundland, Ont, Que incl. Magdalen Islands); USA (Ala, Ken, NC, Pen, SC, Ten, Vir)
‘CC2 (Cal 4; CTC 4)’ Rothfels, Feraday & Kaneps, 1978 ( <i>venustum</i> cytoform)	
<b>incognitum</b> Adler & Mason, 1997 .....	Canada (Saskatchewan, Alb, Man); USA (Idaho)
‘CC4’ Adler, 1986 ( <i>venustum</i> cytoform)	
<b>irritatum</b> Lugger, 1897 [1896] .....	USA (Utah [neotype], Alaska, Wyo); Canada (Alb, BC, Man, Nfld, NWT, Que, Sask)
‘CC(gB)B’ Rothfels, 1979 ( <i>venustum</i> cytoform)	
‘CC3’ Rothfels, 1981 ( <i>venustum</i> cytoform)	
<b>iwasai</b> Takaoka, Otsuka & Fukuda, 2021 [ <i>in</i> Takaoka, Iwasa, Otsuka & Fukuda] .....	Japan (Hokkaido)
<b>kachvorjanae</b> Usova & Zinchenko, 1991 .....	Ukraine
<i>kachvorjani</i> , <i>kachvoryanae</i> : incorrect subsequent spellings	
<b>kamtshaticum</b> Rubtsov, 1940 .....	Siberia (Kamchatka FE)
<i>kamtshadalicum</i> Yankovsky, 1996 (unnecessary subst. name)	
<b>latilobus</b> Rubtsov, 1973 .....	Siberia (Krasnoyarsk ES)
<b>longipalpe</b> Beltyukova, 1955 .....	Russia (Permskaya CR, KM, NR, SR); Belarus, China (IM), Finland, Kazakhstan, Lithuania, Norway, Siberia (ES, FE, WS), Sweden, Ukraine, Uzbekistan
<i>curvistylus</i> Rubtsov, 1957 [Russia (St Petersburg CR)]	
<i>curvistilum</i> , <i>curvistylum</i> : incorrect subsequent spellings	
<i>langipalpe</i> : incorrect subsequent spelling	
[ <i>morsitans</i> : authors, not Edwards]	
<b>lugense</b> Yankovsky, 1996 (subst. name) .....	Russia (St Petersburg CR); Ukraine
<i>hibernale</i> Rubtsov, 1967 (preocc.)	
<b>minutum</b> Lugger, 1897 [1896] .....	USA (Minnesota, Mic); Canada (Ont, Sask)
‘CC1 (Cal 1 and CTC1)’ Rothfels, Feraday & Kaneps, 1978 ( <i>venustum</i> cytoform)	
<b>molestum</b> Harris, 1841 .....	USA (New Hampshire, Mic); Canada (PEI, Que: Magdalen Islands)
‘A/C’ Rothfels, Feraday & Kaneps, 1978 ( <i>venustum</i> cytoform)	
<b>morsitans</b> Edwards, 1915 .....	Britain (England, Sc, Wa); Austria, Belarus, Belgium, China (IM), Czech Republic, Denmark, Estonia, Finland, France, Germany, Kazakhstan, Latvia, Lithuania, Luxembourg, Mongolia, Netherlands, Norway, Poland, Romania, Russia (CR, SR), Siberia (ES, FE), Slovakia, Slovenia, Sweden, Turkey, Ukraine
<i>gerstaeckeri</i> Enderlein, 1936 [Austria]	
‘aff. <i>morsitans</i> ’ Jedlička, 1972 ( <i>Simulium</i> sp.)	
<i>morsita</i> , <i>morsitaus</i> : incorrect subsequent spellings	
<b>nipponense</b> Shiraki, 1935 .....	Japan (Honshu)
<b>obihiroense</b> Takaoka & Iwasa, 2021 [ <i>in</i> Takaoka, Iwasa, Otsuka & Fukuda] .....	Japan (Hokkaido)
<b>paralongipalpe</b> Vorobets, 1987 .....	Siberia (Yakutskaya ES)
<b>paramorsitans</b> Rubtsov, 1956 .....	Russia (St Petersburg CR, KM, NR, SR); Belarus, Bosnia and Herzegovina, Bulgaria, Czech Republic, Estonia, Finland, Germany, Hungary, Italy, Kazakhstan, Latvia, Lithuania, Mongolia, Norway, Poland, Romania, Serbia, Siberia (ES, FE, WS), Slovakia, Sweden, Ukraine
<i>paelignum</i> Rivosecchi, 1966 (ssp.) [Italy]	
<i>semushini</i> Usova & Zinchenko, 1992 [Ukraine]	
<i>paramorsitans</i> , <i>paromorsitans</i> : incorrect subsequent spellings	
<i>poelignum</i> : incorrect original spelling (alternative in fig.)	
<b>piscidium</b> Riley, 1870 .....	USA (New York, Maine, NH); Canada (Nfld, Que)
‘AC(gB) (AC)’ Rothfels, Feraday & Kaneps, 1978 ( <i>venustum</i> cytoform)	
‘Ac(qb)’: Colbo & Porter, 1980 (lapsus for ‘AC(gB)’)	
<i>piscioidium</i> , <i>piscidium</i> , <i>piscidum</i> : incorrect subsequent spellings	
<b>posticatum</b> Meigen, 1838 [valid, ICZN Opinion 1508, List] .....	Germany; Austria, Belarus, Belgium, Britain (En), Czech Republic, Denmark, Estonia, Finland, France, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Russia (CR, KM), Siberia (WS), Slovenia, Sweden, Turkey, Ukraine
<i>austeni</i> Edwards, 1915 [precedence not accorded, ICZN Opinion 1508, List] [Britain (England)]	
<i>pseudoreptans</i> Enderlein, 1935 [Germany]	
<i>austeri</i> : incorrect subsequent spelling	
[ <i>venustum</i> : Old World authors, not Say]	
[ <i>verecundum</i> : Old World authors, not Stone & Jamnback]	
<b>promorsitans</b> Rubtsov, 1956 .....	Russia (Orenburgskaya CR, SR); Belarus, China (IM), Kazakhstan, Lithuania, Poland, Siberia (ES, WS),

<b>rezvoi</b> Rubtsov, 1956 .....	Ukraine Kazakhstan
<i>resvoi, rezovi, rezvoyi</i> : incorrect subsequent spellings	
<b>rivosecchii</b> Rubtsov, 1964 .....	Italy
[ <i>parvum</i> : Rubtsov, 1956, not Enderlein]	
<b>rostratum</b> (Lundström, 1911) .....	Finland; Austria, Belarus, Britain (En, Sc), Canada (Alb,
<i>wilhelmii</i> Enderlein, 1922 [Germany]	
<i>groenlandicum</i> Enderlein, 1935 [Greenland]	
<i>pitense</i> Carlsson, 1962 [Sweden]	
<i>sublacustre</i> Davies, 1966 [Britain (England)]	
‘1’ Malloch, 1919 ( <i>Simulium</i> sp.)	
‘ACD’ Rothfels, Feraday & Kaneps, 1978 ( <i>verecundum</i> cytoform)	
‘near <i>argyreatum</i> ’ Pedersen, 1971	
<i>restratum, rostratium</i> : incorrect subsequent spellings	
<i>wilhelmi</i> : incorrect subsequent spelling	
[ <i>argyreatum</i> : Rubtsov, 1956 / Usova, 1961, not Meigen]	
[ <i>verecundum</i> (part): authors (Palearctic), not Stone & Jamnback]	
[see Adler, Currie & Wood, 2004 for Nearctic misidentifications]	
<b>rubtzovi</b> Smart, 1945 (subst. name) .....	Siberia (Buryatskaya ES, FE, WS); Canada (NWT,
<i>simile</i> Rubtsov, 1940 [1939] (preocc.)	
<i>rubtsovi, rubzovi</i> : incorrect subsequent spellings	
<b>setiferorum</b> An, Wang & Yang, 2022 [ <i>in</i> An, Li, Li, Wang & Yang] .....	China (Yunnan)
<b>shevtshenkovae</b> Rubtsov, 1965 (subst. name) .....	Ukraine; Belarus, Russia (CR, SR)
<i>venustoides</i> Rubtsov, 1963 (preocc.)	
<i>schevtchenkova, schevtshenkova, shevtshenkova,</i>	
<i>shevchenkova, shovtshenkovne</i> : incorrect subsequent spellings	
<i>venustoide</i> : incorrect subsequent spelling	
<b>simulans</b> Rubtsov, 1956 .....	Russia (Orenburgskaya CR, SR); Belarus, Kazakhstan,
Siberia (ES, FE), Ukraine	
<b>tobetsuense</b> Ono, 1977 .....	Japan (Hokkaido); Siberia (Kurile Islands FE, Sakhalin
FE)	
<b>tormentor</b> Adler, Currie & Wood, 2004 .....	Canada (Northwest Territories, Nun, Que)
‘CH(gB)’ Rothfels, 1979 ( <i>venustum</i> cytoform)	
‘H/C’ Rothfels, 1981 ( <i>venustum</i> cytoform)	
<b>truncatum</b> (Lundström, 1911) .....	Finland; Belarus, Canada (Alb, BC, Lab, Nfld, Nun,
<i>sericeum</i> (Linnaeus, 1767)† [Sweden]	
‘EFG/C (CEFG, CEF)’ Rothfels <i>et al.</i> , 1978 ( <i>venustum</i> cytoform)	
? ‘EFG’ Rothfels, Feraday & Kaneps, 1978 ( <i>venustum</i> cytoform)	
‘near <i>truncatum</i> ’ Gordon & Cupp, 1980 ( <i>Simulium</i> sp.)	
<i>runcatum</i> : incorrect subsequent spelling	
[ <i>venustum</i> : Rubtsov, 1940, not Say]	
<b>venustum</b> Say, 1823 .....	USA (North Carolina [neotype], Ala, Ari, Ark, Cal, Col,
‘CC’ Rothfels, Feraday & Kaneps, 1978 (cytoform)	
<i>venestum, venustem, venustom, venustrum</i> : incorrect	
subsequent spellings	
<b>verecundum</b> Stone & Jamnback, 1955 .....	USA (Pennsylvania, Ala, Del, Flo, Geo, Ill, Ken, Lou,
‘AA (Transposition Sibling)’ Rothfels <i>et al.</i> , 1978 (cytoform)	
‘A/C (PS3)’ Rothfels, Feraday & Kaneps, 1978 (cytoform)	
‘AA-AC’ Gordon & Cupp, 1980 (cytoform)	
‘CC ver.’ Rothfels, 1981 (cytoform)	
‘AA-A/C-CC’ Ciborowski & Adler, 1990 (cytoform)	
<i>veracundum, verecondum, verucundum</i> : incorrect subsequent spellings	
<b>xinbinen</b> Sun, 1994 .....	China (Liaoning)
<i>xinbinen</i> Sun, 1992 (unav., not formally publ.)	
<i>sinbinen</i> : incorrect subsequent spelling	

'JJ' Rothfels, 1981 (*venustum* cytoform) ..... USA (Oregon)

YADONGENSE species-group

**lonchatum** Chen, Zhang & Huang, 2005 ..... China (Sichuan)  
*longchatum*: incorrect subsequent spelling  
**yadongense** Deng & Chen, 1993 ..... China (Tibet)  
*yodongense*: incorrect subsequent spelling  
**zunyiense** Chen, Xiu & Zhang, 2012 ..... China (Guizhou)

*Simulium* s. str. species unplaced to group

**ambiguum** Shiraki, 1935 ..... Taiwan. ['Japan' error]  
*ambigum*: incorrect subsequent spelling  
**cremosi** Davies & Györkös, 1987 ..... Sri Lanka  
'a' Davies, 1984 (*Simulium* sp.)  
**katoi** Shiraki, 1935 ..... Taiwan. ['Japan' error]  
*kati*: incorrect subsequent spelling  
**neoacontum** Chen, Xiu & Zhang, 2012 ..... China (Guizhou)  
**palniense** Puri, 1933 ..... India (Tamil Nadu)  
**parvulum** Takaoka, 2003 ..... Indonesia (Sulawesi)  
**peliastrias** Sun, 1994 ..... China (Liaoning)  
*peliustrias*: incorrect original spelling (alternative)  
**pulanotum** An, Guo & Xu, 1995 ..... China (Tibet)  
**shanxiense** Cai, An, Li & Yan, 2004 ..... China (Shanxi)  
**singtamense** Datta & Pal, 1975 ..... India (West Bengal); Nepal  
**tarbagataicum** (Rubtsov, 1967) ..... Kazakhstan  
**yokotense** Shiraki, 1935 ..... Japan (Honshu)  
'II' Grenier, 1953 (*Simulium* sp., attrib. Dorier, 1947) ..... France  
'A' Dorier, 1963 (*Simulium* sp.)  
'Nathia' Lewis, 1973 (*Simulium* sp.) ..... Pakistan  
'Assam' Lewis, 1974 (*Simulium* sp.) ..... India (Assam)  
'Diju' Lewis, 1974 (*Simulium* sp.) ..... India (Assam, UP)  
'Doigroon' Lewis, 1974 (*Simulium* sp.) ..... India (Assam)  
'Kamti' Lewis, 1974 (*Simulium* sp.) ..... India (UP)  
'Pabho' Lewis, 1974 (*Simulium* sp.) ..... India (Assam)  
'Rengma' Lewis, 1974 (*Simulium* sp.) ..... India (Assam)  
'Subansiri' Lewis, 1974 (*Simulium* sp.) ..... India (Assam, UP)  
'E' Zhang, Wen & Chen, 1999 (*Simulium* sp.) ..... China (Guizhou)  
'F' Zhang, Wen & Chen, 1999 (*Simulium* sp.) ..... China (Guizhou)  
'G' Zhang, Wen & Chen, 1999 (*Simulium* sp.) ..... China (Guizhou)  
'H' Zhang, Wen & Chen, 1999 (*Simulium* sp.) ..... China (Guizhou)

**Subgenus TRICHODAGMIA Enderlein**

**TRICHODAGMIA** Enderlein, 1934 [1933] (as genus)\*\*\*\*, #. Type species: *townsendi*, as *latitarsis* (original designation)  
*THYRSOPELMA* Enderlein, 1934 [1933] (as genus). Type species: *orbitale*, as *brasiliense* (original designation)  
*GRENIERIELLA* Vargas & Díaz Nájera, 1951 (as subgenus of *Simulium*). Type species: *lahillei* (original designation)  
*GRENIERELLA*: incorrect subsequent spelling

NIGRIMANUM species-group

**chimguazaense** Diaz, Moncada, Lotta, Matta & Adler, 2015 ..... Colombia  
'n. sp.' Diaz, Moncada, Lotta, Matta & Adler, 2014 [*in* Diaz]  
**huairayacu** Wygodzinsky, 1953 ..... Argentina (Tucumán, Jujuy, Salta); Bolivia, Peru (Cuzco)  
**lahillei** (Paterson & Shannon, 1927) ..... Argentina (Tucumán, Cat, Cór, Jujuy, Salta); Bolivia,  
*lahilli*: incorrect subsequent spelling  
Colombia, Peru (Cuzco, Lima)

<b>muiscorum</b> Bueno, Moncada & Muñoz de Hoyos, 1979 .....	Colombia
‘A’ Moncada & Bueno, 1977 (undergraduate thesis)	
<b>nigrimanum</b> Macquart, 1838 .....	Brazil (São Paulo, BFD, ES, Goiás, MG, MGr, MGrS, Par, Pará, RJ, Toc); Colombia, Paraguay, Venezuela
<i>pruinsum</i> Lutz, 1910 [Brazil (Minas Gerais)]	
<i>spadicidorsum</i> (Enderlein, 1934) [Brazil (São Paulo)]	
<b>nunesdemelloi</b> Hamada, Pepinelli & Hernández, 2006 .....	Brazil (Amazonas)
	Lima
<b>sumapazense</b> Coscarón & Py-Daniel, 1989 .....	Colombia
<b>townsendi</b> Malloch, 1912 .....	Peru (‘Rio Charape’, Are, Cuzco, Lima); Bolivia, Colombia, Ecuador
<i>chalcocoma</i> Knab, 1914 [Peru (‘Tincochchoca’)]	
<i>ecuadoriense</i> (Enderlein, 1934) [Ecuador]	
<i>latitarse</i> (Enderlein, 1934) [1933] [Bolivia]	
<i>strigatum</i> (Enderlein, 1934) [1933] [Peru (Cuzco)]	
<i>chalcocomense</i> : incorrect subsequent spelling	
<i>ecuadoriensis</i> , <i>aequatoriense</i> : incorrect subsequent spellings	
<i>latitaris</i> , <i>latitarsus</i> : incorrect subsequent spellings	
<b>wygodzinskyorum</b> Coscarón & Py-Daniel, 1989 .....	Peru (Junín); Ecuador
‘nr. <i>wygodzinskyorum</i> ’ Hernández-Triana, Prosser, Rodríguez-Pérez, Chaverri, Hebert, Gregory, 2014 ( <i>Simulium</i> sp.)	

#### ORBITALE species-group

<b>coscaroni</b> Nascimento, Hamada & Adler, 2017 [2018].....	Brazil (Minas Gerais)
<b>criniferum</b> Nascimento, Hamada, Andrade-Souza & Adler, 2017 [2018].....	Brazil (Amapá)
[ <i>hirtipupa</i> : Hamada, Ale-Rocha & Luz, 2003, not Lutz]	
<b>duodenicornium</b> Pepinelli, Hamada & Trivinho-Strixino, 2005 .....	Brazil (São Paulo, MG)
<i>uodenicornium</i> : incorrect subsequent spelling	
<b>guianense</b> Wise, 1911 [1912] (complex) .....	Guyana; Brazil (Amapá, Amz, ES, Goiás, Mar, MG, MGr, Par, Pará, RJ, Ror, SC, SP, Toc), French Guiana, Suriname, Venezuela
<i>pintoi</i> d’Andretta & d’Andretta, 1945 [1946] [Brazil (São Paulo)]	
<i>ortizi</i> Ramírez-Pérez, 1971 [Venezuela]	
‘B’ Shelley, Nunes de Mello & Rees, 1976 (morphoform) .....	Brazil (Amazonas)
‘A’ Charalambous, Shelley, Maia-Herzog & Luna Dias, 1996	
(cytoform) .....	Brazil (Goiás)
‘A1’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform)	
‘A2’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Brazil (Minas Gerais)
‘B’ Charalambous, Shelley, Maia-Herzog & Luna Dias, 1996	
(cytoform) .....	Brazil (Amapá)
‘B3’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform)	
‘B1’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Brazil (Mato Grosso)
‘B2’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Brazil (Amapá, Amz, Ror), French Guiana
‘B4’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Venezuela
‘C’ Charalambous, Shelley, Maia-Herzog & Luna Dias, 1996	
(cytoform) .....	Brazil (Maranhão)
‘D’ Charalambous, Shelley, Maia-Herzog & Luna Dias, 1996	
(cytoform) .....	Brazil (Pará)
‘E1’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Brazil (Espírito Santo)
‘E2’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Brazil (Mato Grosso)
‘E3’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Brazil (Mato Grosso)
‘E4’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Brazil (Goiás)
‘F’ Adler, Hamada, Nascimento & Grillet, 2017 (cytoform) .....	Brazil (Piauí)
<i>quianense</i> : incorrect subsequent spelling	
[ <i>tarsale</i> : Floch & Abonnenc, 1946, not Williston]	
<b>hirtipupa</b> Lutz, 1910 (complex) .....	Brazil (Minas Gerais, Alagoas, Bahía, ES, Goiás, MGr, MGrS, RGS, RJ, SP)
‘Gr-Minas Gerais’ Andrade-Souza, Silva & Hamada, 2017	
(molecular form)	
<b>itajara</b> Nascimento, Hamada & Pepinelli, 2020 .....	Brazil (Bahía)
[ <i>scutistriatum</i> : authors (Bahía), not Lutz]n	

<b>itaunense</b> d'Andretta & Dolores González, 1964 .....	Brazil (São Paulo, RGS, SC)
<b>jeteri</b> (Py-Daniel, Darwich, Mardini, Strieder & Coscarón, 2005) .....	Brazil (Rio Grande do Sul)
<b>litobrachium</b> Hamada, Pepinelli, Mattos-Glória & Luz, 2010 .....	Brazil (Goiás, MG)
<i>lithobrachium</i> : incorrect subsequent spelling	
[ <i>guianense</i> : Mattos, 2007 (thesis) (part, Ponte de Pedra), not Wise]	
<b>maiaherzogae</b> Aranda, Molina, Chimes & Py-Daniel, 2021 .....	Brazil (Minas Gerais)
<b>orbitale</b> Lutz, 1910 .....	Brazil (Minas Gerais, MGrS, Par, RGS, RJ, SC, SP); Argentina (BA, Cos, ER, Mis), Colombia, Paraguay
<i>brasiliense</i> (Enderlein, 1934) [1933] [Brazil (? state)]	
<i>albopictum</i> Lane & Porto, 1940 [ <i>in</i> Porto] [Brazil (Paraná)]	
<i>albimanum</i> : incorrect subsequent spelling (lapsus for <i>nigrimanum</i> )	
[ <i>nigrimanum</i> : Lutz, 1909, 1910 / Pinto, 1932 [1931], not Macquart]	
[ <i>paraguayense</i> : Lane & Vulcano, 1943, not Schrottky]	
<b>perplexum</b> Shelley, Maia-Herzog, Luna Dias & Couch, 1989 .....	Guyana; Brazil (Pará)
<b>scutistriatum</b> Lutz, 1909 .....	Brazil (Rio de Janeiro, ES, Goiás, MG, MGr, Par, SP, Toc); Colombia, Paraguay, Venezuela
<i>scutlstriatum</i> : incorrect original spelling	

### Subgenus WALLACELLUM Takaoka

**WALLACELLUM** Takaoka, 1983 (as subgenus of *Simulium*). Type species: *carinatum* (original designation)

<b>alfurense</b> Takaoka, 2003 .....	Indonesia (Maluku, Irian Jaya)
<b>amplum</b> Takaoka, 2009 .....	Philippines (Luzon)
<b>cabrerai</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>carinatum</b> Delfinado, 1969 .....	Philippines (Luzon, Negros)
<i>carinatum</i> : incorrect subsequent spelling	
<b>celebesense</b> Takaoka, 2003 .....	Indonesia (Sulawesi)
<b>claveriaense</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>makilingense</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>marilogense</b> Takaoka, 2009 .....	Philippines (Mindanao)
<b>molawinense</b> Takaoka, 2006 .....	Philippines (Luzon)
<b>ogonukii</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>recurvum</b> Takaoka, 1983 .....	Philippines (Luzon, Negros)
<b>resinum</b> Takaoka, 1983 .....	Philippines (Mindanao)
<b>spinosibrachium</b> Takaoka, 1983 .....	Philippines (Luzon)
<b>suyoense</b> Takaoka, 2006 .....	Philippines (Luzon, Mindanao, Mindoro)
<b>tenederoi</b> Takaoka, 2009 .....	Philippines (Samar)
<b>tuynense</b> Takaoka, 1983 .....	Philippines (Luzon, Mindanao, Mindoro, Palawan, Samar)
<b>yonakuniense</b> Takaoka, 1972 .....	Japan (Nansei Islands); Taiwan
'sp.' Takaoka, Hadi & Sigit, 2006 .....	Indonesia (Flores, Sumba, Timor)

### Subgenus WILHELMIA Enderlein

**WILHELMIA** Enderlein, 1921 (as genus). Type species: *lineatum* (original designation)

#### BUETTIKERI species-group

<b>buettikeri</b> Crosskey & Roberts, 1994 [ <i>in</i> Crosskey, Büttiker & Roberts]* .....	Oman; United Arab Emirates (Dubai), Afghanistan (?)
'sp. n.' Crosskey & Büttiker, 1988 ( <i>Simulium</i> ( <i>Wilhelmia</i> ))	

#### EQUINUM species-group\*

<b>angustifurca</b> (Rubtsov, 1956) .....	Russia (Caucasus); Bulgaria, China (IM), Ukraine
<i>angustifurce</i> : incorrect subsequent spelling	
<b>balcanicum</b> (Enderlein, 1924) .....	Bulgaria; Albania, Austria, Belarus, Bosnia and Herzegovina, Croatia, Germany, Greece, Hungary,
<i>secundum</i> (Baranov, 1926) ( <i>stylatum</i> form) [Macedonia]	





<i>jalcula</i> : incorrect original spelling ( <i>falcula</i> misprint)	Spain, Ukraine
<i>lineate</i> : incorrect subsequent spelling	
<i>salopiedse</i> , <i>salopiemse</i> , <i>salopiesne</i> , <i>salopionsis</i> , <i>solopiensis</i> : incorrect subsequent spellings	
[ <i>balcanica</i> : Knoz, 1965 (part, Fig. 238), not Enderlein]	
<b>lurestanicum</b> (Yankovsky, 2010) .....	Iran
<b>paraequinum</b> Puri, 1933 (complex) .....	Pakistan; Armenia, Azerbaijan, Bulgaria, Croatia, Greece
<i>transcaucasicum</i> (Rubtsov, 1956) [Armenia]	(incl. Lésbos), Hungary, Iran, Iraq, Israel, Italy, Jordan, Lebanon, Romania, Russia (SR), Serbia, Turkey, Ukraine (Crimea)
‘A’ Petrova, Chubareva, Adler & Kachvoryan, 2003 (cytoform) .....	Armenia
‘B’ Petrova, Chubareva, Adler & Kachvoryan, 2003 (cytoform) .....	Armenia
‘1’ Đuknić, Jovanović, Popović, Živić, Raković, Čerba & Paunović, 2019 (molecular form) .....	Armenia, Montenegro, Serbia
‘2’ Đuknić, Jovanović, Popović, Živić, Raković, Čerba & Paunović, 2019 (molecular form) .....	Turkey
<i>paraequinae</i> , <i>paraequinum</i> , <i>paraeqwine</i> : incorrect subsequent spellings	
[ <i>lineata</i> : Rubtsov, 1956, 1962 / Chubareva & Petrova, 2008, not Meigen]	
[ <i>stylata</i> : Rivosecchi, 1978, not Baranov]	
<b>pekingense</b> Sun, 1999 .....	China (Beijing)
<i>pakingense</i> : incorrect subsequent spelling	
<b>pindiense</b> Khatoon & Hasan, 1995 .....	Pakistan
<b>pinnatum</b> Chen, Zhang & Jiang, 2016 [ <i>in</i> Chen] .....	China (Gansu)
<b>pseudequinum</b> Séguy, 1921 (complex) .....	Canary Islands (Gran Canaria, Gomera, Tenerife);
<i>canariense</i> Séguy, 1921 [Canary Islands (Gran Canaria)]	Algeria, Armenia, Austria, Azerbaijan, Bosnia and Herzegovina, Britain (En), Bulgaria, China (Sx, Xi), Croatia, Cyprus, France, Georgia, Greece (incl. Andros, Chíos, Crete, Ikaría, Lésbos, Nákos, Rhodes), India (Kashmir, Pu), Iran, Iraq, Israel, Italy (incl. Sardinia, Sicily), Jordan, Kazakhstan, Kyrgyzstan, Lebanon, Libya, Macedonia, Moldova, Montenegro, Morocco, Pakistan, Portugal, Romania, Russia (Caucasus), Serbia, Slovakia, Slovenia, Spain, Tajikistan, Tunisia, Turkey, Turkmenistan, Ukraine (incl. Crimea), Uzbekistan, Czech Republic (?)
<i>brnizense</i> Baranov, 1924 [Serbia]	
<i>mediterraneum</i> Puri, 1925 [Algeria]	
<i>stylatum</i> (Baranov, 1926) [Macedonia]	
<i>primum</i> (Baranov, 1926) ( <i>stylatum</i> form, preocc.) [Macedonia]	
<i>quartum</i> (Baranov, 1926) [Serbia]	
<i>barbaricum</i> Séguy, 1930 [Morocco]	
<i>cinereifacies</i> (Rivosecchi, 1964) (unav., <i>nomen nudum</i> , attrib. Corti)	
<i>sulfuricola</i> (Rivosecchi, 1972) [Italy]	
<i>fluminicola</i> (Rivosecchi, 1972) [Italy]	
‘B’ Đuknić, Jovanović, Popović, Živić, Raković, Čerba & Paunović, 2019 (molecular form) .....	Bulgaria, Croatia, Greece, Montenegro, Serbia
‘E’ Đuknić, Jovanović, Popović, Živić, Raković, Čerba & Paunović, 2019 (molecular form) .....	Armenia
‘W1’ Đuknić, Jovanović, Popović, Živić, Raković, Čerba & Paunović, 2019 (molecular form) .....	Britain (En)
‘W2’ Đuknić, Jovanović, Popović, Živić, Raković, Čerba & Paunović, 2019 (molecular form) .....	France, Spain
<i>brizence</i> , <i>brizensis</i> , <i>bruigense</i> : incorrect subsequent spellings	
<i>maditerranea</i> , <i>mediterranean</i> , <i>mideteranea</i> : incorrect subsequent spellings	
<i>psaudequina</i> , <i>pseudeguina</i> , <i>pseudequinurn</i> , <i>pseudoequinum</i> : incorrect subsequent spellings	
<i>sulphuricolum</i> : incorrect subsequent spelling	
[ <i>lineatum</i> : Becker, 1908, not Meigen]	
[ <i>lineatum</i> : Bezzi, 1921 (part) / Kruger, 1929, not Meigen]	
[ <i>damnosum</i> : Tedeschi, 1930, not Theobald]	
[ <i>equinum</i> : Zavattari, 1930, 1934, not Linnaeus]	
[ <i>equinum</i> : Parrot, 1949, not Linnaeus]	
[ <i>guimari</i> : Rubtsov, 1956, 1962, not Becker]	
[? <i>lineata</i> : Knoz, 1963, not Meigen]	
[ <i>tertia</i> : Rubtsov & Yankovsky, 1988, not Baranov]	

<b>qinghaiense</b> Liu, Gong, Zhang, Luo & An, 2003 .....	China (Qinghai)
<b>qingxilingense</b> Cai & An, 2005 .....	China (Hebei)
<b>quadrifila</b> Grenier, Faure & Laurent, 1957 .....	Morocco; Algeria, Spain
<b>sergenti</b> Edwards, 1923 .....	Algeria; Morocco, Portugal, Spain, Tunisia
<i>ariasi</i> Séguy, 1925 [Spain]	
<b>tachengense</b> Mahe [Maha], An & Yan, 1997 (junior primary homonym of <i>tachengense</i> An & Mahe, 1994, but no available subst. name) .....	China (Xinjiang)
<b>takahasii</b> (Rubtsov, 1962) .....	Japan (Honshu, Ky, Sh); China (Be, Gu, Qi, Sh, Xi, Yu), Korea (South)
‘Uma-buyu’ Kani, 1944	
<i>takahashi</i> , <i>takahashii</i> , <i>takahasi</i> : incorrect subsequent spellings	
[ <i>equinum</i> : Shiraki, 1935, not Linnaeus]	
[ <i>salopiense</i> : Bentinck, 1955 and Japanese authors, not Edwards]	
<b>talassicum</b> (Yankovsky, 1984) .....	Kyrgyzstan
<b>tongbaishanense</b> Chen & Luo, 2006 .....	China (Hubei)
<b>turgaicum</b> Rubtsov, 1940 .....	Kazakhstan; Afghanistan, Armenia, Azerbaijan, Bosnia and Herzegovina, China (IM, Xi), Iran, Iraq, Kyrgyzstan, Lebanon, Pakistan, Slovenia, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan
‘1’ Đuknić, Jovanović, Popović, Živić, Raković, Čerba & Paunović, 2019 (molecular form) .....	Armenia, Turkey
‘2’ Đuknić, Jovanović, Popović, Živić, Raković, Čerba & Paunović, 2019 (molecular form) .....	Armenia, Bosnia and Herzegovina, Slovenia, Turkey
<b>veltistshevi</b> Rubtsov, 1940 .....	Tajikistan; Afghanistan, Azerbaijan, China (IM, Xi), Georgia, Iran, Kazakhstan, Pakistan, Romania, Turkey, Turkmenistan, Ukraine (incl. Crimea), Uzbekistan
<i>veltististshevi</i> , <i>vewltishevi</i> , <i>weltistshevi</i> : incorrect subsequent spellings	
<b>wushiense</b> Mahe [Maha], An & Yan, 1997 .....	China (Xinjiang, Qi)
<i>weshiense</i> : incorrect subsequent spelling	
<b>xingyiense</b> Chen & Zhang, 1998 .....	China (Guizhou)
<i>ximgyiense</i> : incorrect subsequent spelling	
<b>zhangyense</b> Chen, Zhang & Jiang, 2016 [ <i>in</i> Chen] .....	China (Gansu)
<i>zhangyanse</i> : incorrect original spelling	

#### ***Simulium sensu lato* species unplaced to subgenus**

<b>canescens</b> Bremsi, 1842 [ <i>in</i> Kölliker] .....	Switzerland
<b>chilianum</b> Rondani, 1863 .....	Chile [no locality]
<b>dentastylum</b> Yang, Chen & Luo, 2009 .....	China (Hubei)
<i>densastylum</i> : incorrect subsequent spelling	
<b>diaznajera</b> i Vargas, 1943 (subst. name) .....	Mexico [no locality]
<i>tenuifrons</i> (Enderlein, 1936) (preocc.)	
<b>fulvipes</b> (Ono, 1978) .....	Japan (Hokkaido)
<i>oshimaense</i> Ono, 1989 (unnecessary subst. name)	
<i>ono</i> Yankovsky, 1996 (unnecessary subst. name, for <i>fulvipes</i> )	
<b>incanum</b> Loew, 1840 .....	Poland
<b>lividum</b> (Schellenberg, 1803) .....	Switzerland
<b>nigrifemur</b> (Enderlein, 1936) .....	Chile (Maule)
<b>ochrescentipes</b> Enderlein, 1921 .....	Turkmenistan
<i>ochresentipes</i> : incorrect subsequent spelling	
<b>spinifer</b> Knab, 1914 .....	Peru (‘Verrugas Canyon’, Calca, Cuzco), Ecuador
<i>limbatum</i> (Enderlein, 1934) [1933] (preocc.) [Peru (Cuzco)]	
<i>angustitarse</i> (Enderlein, 1934) [1933] (preocc.) [Peru (Calca)]	
<i>hoffmanni</i> Vargas, 1943 (subst. name, for <i>angustitarse</i> )	
<i>sicuan</i> i Smart, 1944 (subst. name, for <i>limbatum</i> )	
<i>incaicum</i> Vargas, 1945 (unnecessary subst. name, for <i>limbatum</i> )	
‘nr. <i>spinifer</i> ’ Hernández-Triana, Prosser, Rodríguez-Pérez, Chaverri, Hebert, Gregory, 2014 ( <i>Simulium</i> sp.)	

'F' Lewis, 1963 ( <i>Simulium</i> sp.) .....	Venezuela
'Hernan' Lewis, 1973 ( <i>Simulium</i> sp.) .....	Pakistan
'Kolalai' Lewis, 1973 ( <i>Simulium</i> sp.) .....	Pakistan
'Langan' Lewis, 1973 ( <i>Simulium</i> sp.) .....	Pakistan
'Swat' Lewis, 1973 ( <i>Simulium</i> sp.) .....	Pakistan

### Unplaced *nomina nuda* in *Simulium sensu lato*

<i>adamicum</i> Maskey, 1986 [Nepal]
<i>anomalum</i> Eversmann, 1834 [Russia]
<i>anuragum</i> (Maskey, 1986) [Nepal]
<i>friendicum</i> Maskey, 1986 [Nepal]
<i>galea</i> Maskey, 1986 [Nepal]
<i>gardenicum</i> Maskey, 1986 [Nepal]
<i>godavaricum</i> (incl. <i>godavaricum</i> 'sp. 1') (Maskey, 1986) [Nepal]
<i>gokarnum</i> (Maskey, 1986) [Nepal]
<i>hetaudense</i> Maskey, 1986 [Nepal]
<i>kedarai</i> Maskey, 1986 [Nepal]
<i>laticornis</i> Knoz, 1963 (attrib. Zwolsky) [Czech Republic]
<i>mandirense</i> Maskey, 1986 [Nepal]
<i>maridienale</i> Hua Li-Zhong, 2006 [China (Hong Kong)]
<i>montium</i> Sun, 1994 (attrib. Xue, 1990) [China]
<i>neogracilis</i> Sun, 1994 (attrib. Duang & Chen, 1993) [China]
<i>panicum</i> Maskey, 1986 [Nepal]
<i>quinquefurcatum</i> Amaral-Calvão & Maia-Herzog, 2003 [Brazil (Bahía)]
<i>takaocum</i> Maskey, 1986 [Nepal]
<i>ussovai</i> Maskey, 1986 [Nepal]
<i>xiaguanense</i> Sun, 1994 (attrib. Xue, 1990) [China]

### Genus STEGOPTERNA Enderlein

STEGOPTERNA Enderlein, 1930 (as genus). Type species: *trigonium*, as *richteri* (original designation)

<b>acra</b> Currie, Adler & Wood, 2004 [ <i>in</i> Adler, Currie & Wood] .....	USA (Arizona, Cal, Col, Nev, Utah, Wyo)
'W' Madahar, 1969 ( <i>Cnephia</i> cytoform)	
[ <i>mutata</i> (part): authors (western USA), not Malloch]	
<b>byrrangii</b> Yankovsky, 2000 .....	Siberia (Taymyrsky ES)
<b>decafilis</b> Rubtsov, 1971 .....	Siberia (Yakutskaya ES, FE); Canada (NWT, Yukon), USA (Alaska)
<i>hamuligera</i> Yankovsky, 1977 [Siberia (Amurskaya)]*	
'undescribed species' Corkum & Currie, 1987	
<i>rdecafilis</i> : incorrect subsequent spelling	
<b>diplomutata</b> Currie & Hunter, 2003 .....	Canada (Ontario, NS, PEI, Que incl. Magdalen Islands); USA (Ala, Ark, Geo, Ill, Ind, Mar, Mas, Misp, NC, NH, NJ, NY, Ohio, Pen, SC, Ten, Vir, Wis, WV)
'2n' Basrur, 1957 (thesis) ( <i>mutata</i> cytoform)	
'diploid' Basrur & Rothfels, 1959 ( <i>mutata</i> cytoform)	
'A' Currie & Hunter, 2003 (cytoform) .....	Canada (Ont)
'B' Currie & Hunter, 2003 (cytoform) .....	Canada (Ont)
[ <i>mutata</i> : authors, not Malloch]	
<b>duodecimata</b> (Rubtsov, 1940) .....	Siberia (Irkutskaya ES, FE, WS); Norway
<i>duodecimata</i> (Rubtsov, 1936, 1937, 1939) (unav., <i>nomen nudum</i> )	
<i>duodedecimata</i> (Rubtsov, 1939) (unav., <i>nomen nudum</i> )	
<i>duogecimata</i> : incorrect subsequent spelling	
<b>emergens</b> (Stone, 1952) .....	USA (Alaska, Mic, Wis); Canada (Alb, BC, Lab, Man, Nun incl. Baffin and Southampton Islands, NWT incl. Victoria Island, Ont, Sask), Siberia (FE)
<i>tschukotensis</i> Rubtsov, 1971 [Siberia (Tshukotka)]	
'#2' Anderson & Dicke, 1960 ( <i>Cnephia</i> sp.)	
[ <i>mutata</i> (part): authors (western Canada), not Malloch]	[Yankovsky & Aibulatov, 2009 treat <i>tschukotensis</i> as valid sp.]

<b>longicoxa</b> Rubtsov, 1971* .....	Siberia (Krasnoyarsk ES)
<b>mutata</b> (Malloch, 1914) .....	USA (New Jersey, Ark, Del, Geo, Iowa, Kan, Ken, Lou, Maine, Mar, Mas, Mic, NC, NH, NY, Ohio, Pen, SC, Ten, Vir, Wis, WV); Canada (Lab, NB, Nfld, Ont, PEI, Que incl. Magdalen Islands). [‘Japan’ error]
‘undescribed’ Strickland, 1911 ( <i>Simulium</i> sp.)	
‘No. 2’ Ritcher, 1931 ( <i>Simulium</i> sp.)	
‘A’ Johannsen, 1934 ( <i>Simulium</i> sp.)	
‘3n’ Basrur, 1957 (thesis) (cytoform)	
‘triploid’ Basrur & Rothfels, 1959 (cytoform)	
<b>nukabirana</b> Ono, 1977 .....	Japan (Hokkaido)
<b>permutata</b> (Dyar & Shannon, 1927) .....	Canada (British Columbia incl. Queen Charlotte Islands); USA (Cal, Was)
‘X’ Madahar, 1969 ( <i>Cnephia</i> cytoform)	
<i>premutata</i> : incorrect subsequent spelling	
<b>takeshii</b> Takaoka, 2005 .....	Japan (Honshu)
<b>trigonium</b> (Lundström, 1911) (complex) .....	Finland; Belarus, Canada (Nun, NWT), Denmark, Japan (Hon), Latvia, Norway, Russia (CR, KM, NR), Siberia (ES, FE, WS), Sweden, Ukraine, USA (Alaska), Netherlands (?). [‘Romania’ error]
<i>freyi</i> (Enderlein, 1929) [Russia (Murmansk)]	
<i>richteri</i> Enderlein, 1930 [Russia (Murmansk)]	
<i>asema</i> Rubtsov, 1956 [Siberia (Maritime FE)]	
<i>majalis</i> Rubtsov & Carlsson, 1965 [Russia (St. Petersburg)]†	
<i>dentata</i> Rubtsov & Carlsson, 1965 [Russia (Sverdlovskaya)]	
<i>haematophaga</i> Rubtsov & Carlsson, 1965 [Russia (Permskaya)]	
‘1’ Adler, Malmqvist & Zhang, 1998 (cytoform) .....	Sweden
‘2a’ Adler, Malmqvist & Zhang, 1998 (cytoform) .....	Finland, Sweden
‘2b’ Adler, Malmqvist & Zhang, 1998 (cytoform) .....	Sweden
‘ACE9571’ Schaefer, 2014 (molecular form) .....	Finland
‘AAD8486’ Schaefer, 2014 (molecular form) .....	Canada (Man, NWT, Ont), USA (Mon)
‘ACJ5631’ Schaefer, 2014 (molecular form) .....	Canada (Nun incl. Baffin, Banks and Victoria Islands, NWT)
<i>richerti</i> : incorrect subsequent spelling	
<i>trigoni</i> , <i>trigonum</i> : incorrect subsequent spellings	
[ <i>mutata</i> (part): Japanese authors, not Malloch]	
[ <i>sibirica</i> : Rubtsov, 1940, not Enderlein]	
<b>tundrensis</b> Yankovsky & Aibulatov, 2009 .....	Siberia (Magadanskaya FE, ES)
<b>xantha</b> Currie, Adler & Wood, 2004 [ <i>in</i> Adler, Currie & Wood] .....	Canada (British Columbia: Vancouver Island and mainland); USA (Cal, Mon, Ore)
‘O’ Madahar, 1969 ( <i>Cnephia</i> cytoform)	
‘Y’ Madahar, 1969 ( <i>Cnephia</i> cytoform)	
‘1 (ACE4392)’ Schaefer, 2014 (thesis) (molecular form) .....	Canada (Nunavut incl. Baffin Island)

### Genus SULCICNEPHIA Rubtsov

**SULCICNEPHIA** Rubtsov, 1971 (as genus). Type species: *ovtshinnikovi* (original designation)

<b>alichurensis</b> (Rubtsov, 1967) .....	Tajikistan
<b>argylacea</b> (Rubtsov, 1947) .....	Tajikistan; Azerbaijan, Kazakhstan
<b>brevineckoi</b> Wen, Ma & Chen, 2010 .....	China (Qinghai)
<b>derzhavini</b> (Rubtsov, 1940) .....	Siberia (Kamchatka FE, Yakutskaya ES)
<i>derzharini</i> : incorrect subsequent spelling	
<b>filidistans</b> (Rubtsov, 1947) .....	Tajikistan; Uzbekistan
<i>sulcata</i> (Rubtsov, 1956) [Tajikistan]	
<b>flavipes</b> (Chen, 1984) .....	China (Inner Mongolia)
<i>flavips</i> , <i>flavopes</i> : incorrect subsequent spellings	
<b>galinae</b> Yankovsky, 1989 .....	Mongolia
<b>jankovskiae</b> (Rubtsov, 1956) .....	Kyrgyzstan; Kazakhstan
<b>jeholensis</b> (Takahasi, 1942) .....	China (Hebei)
<i>jeholinsis</i> : incorrect subsequent spelling	
<b>jingpengensis</b> (Chen, 1984) .....	China (Inner Mongolia)
<i>jingpnegensis</i> : incorrect subsequent spelling	
<b>lobashovi</b> Rubtsov, 1976 .....	Tajikistan
<i>lobaschovi</i> : incorrect subsequent spelling	
<b>octodecimfiliata</b> (Rubtsov & Violovich, 1965) .....	Siberia (Tuva WS)

<b>ovtshinnikovi</b> (Rubtsov, 1940) .....	Kazakhstan; China (Xi), Kyrgyzstan, Mongolia, Siberia (WS), Tajikistan, Uzbekistan
<i>undecimfilum</i> (Rubtsov, 1947, as <i>11-filum</i> ) (unav., <i>nomen nudum</i> )	
<i>ovtchinnikovi</i> , <i>ovtshinnicovi</i> , <i>ovtshinnikov</i> : incorrect subsequent spellings	
<b>pandjensis</b> (Rubtsov, 1967) .....	Tajikistan
<b>petrovae</b> Rubtsov, 1976 .....	Tajikistan
<i>petrovi</i> Petrova, 1973 (unav., <i>nomen nudum</i> )	
<i>petrovi</i> Petrova, 1974 (available, incorrect spelling)	
<b>stegostyla</b> (Rubtsov, 1961) .....	Kazakhstan; Kyrgyzstan, Siberia (Tuva WS)
<i>stegostila</i> : incorrect subsequent spelling	
<b>stekolnikov</b> Yankovsky, 2008 .....	Siberia (Altai WS)
<b>syrdarjensis</b> Rubtsov, 1978 .....	Kazakhstan
<i>syrdariensis</i> : incorrect subsequent spelling	
<b>tungus</b> (Rubtsov, 1956) .....	Siberia (Krasnoyarsk ES, Irkutskaya ES); Mongolia
<i>tungussica</i> (Berzina, 1957) (unav., <i>nomen nudum</i> )	
<b>undecimata</b> (Rubtsov, 1951) .....	Kazakhstan [neotype]; China (Xi), Kyrgyzstan, Turkmenistan, Uzbekistan (?)
[ <i>subgriseum</i> : Rubtsov, 1940 (part)]	
<b>viculinae</b> Yankovsky, 1989 .....	Kyrgyzstan
<b>vigintistriatum</b> Yang & Chen, 2016 [ <i>in</i> Chen] .....	China (Tibet)
<b>vitalii</b> (Rubtsov, 1967) .....	Tajikistan
<b>znoikoi</b> (Rubtsov, 1940) .....	Azerbaijan (Nakhichevan); Armenia, Iran, Kazakhstan, Turkey
<i>znoicoi</i> , <i>znojko</i> , incorrect subsequent spellings	

### Genus TLALOCOMYIA Wygodzinsky & Díaz Nájera

**TLALOCOMYIA** Wygodzinsky & Díaz Nájera, 1970 (as genus). Type species: *revelata* (original designation)  
*STEWARTELLA* Coleman, 1951 (thesis) (unav., *nomen nudum*)  
*MAYACNEPHIA* Wygodzinsky & Coscarón, 1973 (as genus). Type species: *pachecolunai* (original designation)

#### ANDERSONI species-group

**andersoni** Currie, Adler & Wood, 2004 [*in* Adler, Currie & Wood] ..... USA (Oregon, Cal)

#### OSBORNI species-group

**osborni** (Stains & Knowlton, 1943) ..... USA (California, Ari, Ore); Canada (BC)  
‘nr. *osborni*’ Moulton, 1997 (thesis) (*Mayacnephia*)  
**ramifera** Currie, Adler & Wood, 2004 [*in* Adler, Currie & Wood] ..... Canada (British Columbia, Alb, Yukon); USA (Idaho, Ore, Was)  
‘G’ Hocking, 1950 (*Cnephia*)  
‘n. sp. near *stewarti*’ Madahar, 1967 (thesis) (*Cnephia*)  
‘X’ Currie, 1986 / Ramírez-Pérez *et al.*, 1988 (*Mayacnephia* sp.)  
**stewarti** (Coleman, 1953) ..... USA (California)

#### PACHECOLUNAI species-group

**aguirrei** (Dalmat, 1949) ..... Guatemala; Mexico (Ch)  
**alticola** (Dyar & Shannon, 1927) ..... Mexico (Chihuahua)  
**atzompensis** (Díaz Nájera, 1962) ..... Mexico (Morelos)  
*atzompensis*, *atzopensis*: incorrect subsequent spellings  
**fortunensis** (Petersen, 1984) [*in* Petersen & Mendez] ..... Panama  
‘A’ Petersen, Adames & De León, 1983 (*Mayacnephia* sp.)  
**grenieri** (Vargas & Díaz Nájera, 1948) ..... Mexico (Veracruz)  
**mixensis** (Díaz Nájera, 1962) ..... Mexico (Oaxaca)  
**muzquicensis** (Díaz Nájera, 1971) ..... Mexico (Coahuila)  
**pachecolunai** (De León, 1945) ..... Guatemala; Mexico (Chiapas)  
‘B’ De León, 1943 (*Simulium* sp.)  
**revelata** Wygodzinsky & Díaz Nájera, 1970 ..... Mexico (Federal District)

<b>roblesi</b> (De León, 1943) .....	Guatemala
<b>salasi</b> (Ramírez-Pérez, Peterson & Vargas, 1988) .....	Costa Rica
<b>tadai</b> (Ochoa & Takaoka, 1993) .....	Guatemala

[Genus **UGOLYAKIA** Perkovsky & Sukhomlin]

[**UGOLYAKIA** Perkovsky & Sukhomlin, 2018 [*in* Perkovsky, Sukhomlin & Zelenkov] (as genus). Type species: *kaluginae* (original designation)]

[**kaluginae** Perkovsky & Sukhomlin, 2018 [*in* Perkovsky, Sukhomlin & Zelenkov]]..... [Siberia (Krasnoyarsk ES): Late Cretaceous amber]

**UNPLACED FOSSIL GENERA**

[Genus *CRETACEOSIMULIUM* Vulcano]

[*CRETACEOSIMULIUM* Vulcano, 1985 (unav., *nomen nudum*)]

[*araripense* Vulcano, 1985 (unav., *nomen nudum*)]

[Genus **SIMULIITES** Kalugina]

[**SIMULIITES** Kalugina, 1986 [*in* Rasnitsyn] (as genus)§§§.

[**yantardakh** Perkovsky & Sukhomlin, 2016] ..... [Siberia (Krasnoyarsk ES): Cretaceous amber]

**UNPLACED FOSSIL SPECIES**

[**lithuanica** Yankovsky & Bernotiene, 2005]..... [Lithuania: Eocene (Baltic amber)]

[‘indet.’ Wedmann, 2019 (*in* Krzemiński, Blagoderov, Azar, Lukashevich, Szadziewski, Wedmann, Nel, Collomb, Waller & Nicholson)] ..... [Britain (England): Late Eocene]

## NOTES FOR INVENTORY

### Summary of new combinations and new synonyms for 2023 and 2024

*Simulium bertellii* (Py-Daniel, Longaray, Pujol-Luz & Pessoa, 2021) **Comb. n.**

### Notes for the (2023 and 2024) inventory marked with two hash symbols (##)

*koidzumii*. If the female of *S. koidzumii* is accepted as a member of the subgenus *Byssodon*, the male allotype is not conspecific. Its long gonostyli, relative to the gonocoxae, suggest it belongs to a species in the subgenus *Simulium*, rather than to *Byssodon*, of which the males of all members have gonostyli subequal to the length of the gonocoxae.

*maritimum*. We add a new country record for Bulgaria, based on chromosomally analyzed larvae collected by Doreen Werner from Balgarski Izvor and Sevlievo (15 October 2023).

*petricolum*. We add a new country record for Poland, based on chromosomally analyzed larvae collected by O. Tauchmann and provided by Doreen Werner from Zakopane (21 August 2023).

*rubzovianum*. We add a new country record for the Netherlands, based on chromosomally analyzed larvae collected by Doreen Werner from Luchtpad/Plant (21 June 2022).

### Summary of new combinations and new synonyms for 2022

None.

### Notes for the (2022) inventory marked with one hash symbol (#)

*Obuchovia*. Molina & Gil-Azevedo (2021, *European Journal of Taxonomy* **773**: 103–105) in a morphologically based phylogeny revalidated subgenus *Obuchovia*, obviating the previously recognized *albellum* species-group.

*oviedo*. Molina & Gil-Azevedo (2021, *European Journal of Taxonomy* **773**: 110–112) in a morphologically based phylogeny established the subgenus *Disculter* for their former *oviedo* species-group, including *S. oviedo* and *S. rivasi*.

*rivasi*. Same situation as for *oviedo*; see above.

*Trichodagmia*. Molina & Gil-Azevedo (2021, *European Journal of Taxonomy* **773**: 93–97) in a morphologically based phylogeny restricted subgenus *Trichodagmia* by revalidating the previously synonymized subgenera *Hearlea* (previously *canadense* species group), *Hemicnetha* (previously *tarsatum* species-group), *Obuchovia* (previously *albellum* species-group), and *Shewellomyia* (previously *pictipes* species-group). Within *Trichodagmia sensu stricto*, they recognized two species groups (*nigrimanum* species-group and *orbitale* species-group).

### Summary of new combinations and new synonyms for 2021

None.

### Notes for the (2021) inventory marked with four sectional symbols (§§§§)

*oviedo* species-group. Gil-Azevedo & Coscarón (2020, *Arthropod Systematics & Phylogeny* **78**: 408–409) established the *oviedo* species-group to accommodate *S. oviedo* and *S. rivasi* on the basis of their morphological analysis.

*Psilopelmia*. Assignment to species-groups follows the revised classification of Gil-Azevedo & Coscarón (2020, *Arthropod Systematics & Phylogeny* **78**: 416–417), based on their morphological analyses; two new species-groups were established (*callidum* and *virescens* species-groups).

### Summary of new combinations and new synonyms for 2020



None.

#### Notes for the (2020) inventory marked with three sectional symbols (§§§)

*chiangmaiense*. (See entry for *chiangmaiense* under **Notes for the 2018 inventory**). The taxonomic status of *chiangmaiense* vis à vis *nakhonense* is controversial. The most recent analysis by Takaoka, Srisuka, Low & Saeung (2018, *Journal of Medical Entomology* **55**: 567–568), using the nuclear gene big zinc finger, shows it as a separate monophyletic cluster with respect to *nakhonense*. Although *chiangmaiense* is listed in the present Inventory as a valid species, the intent here is not to render judgement as to the specific validity of *chiangmaiense*, but to highlight the controversy.

*lutzi*. Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*: 327) synonymized *lutzi* Knab, 1913 (a substitute name for *minutum* Surcouf & Gonzalez-Rincones) with *jujuyense* Paterson & Shannon, 1927, recognizing the latter as the name of the species. The name *lutzi*, however, has priority and is here recognized as the legitimate name, with *jujuyense* as a synonym.

*shutovae*. We revalidate *shutovae* on the basis of chromosomal photos given in figure 134 by Chubareva & Petrova (2008, *Tsitologicheskies Karty Politennykh Khromosom i Nekotorye Morfologicheskies Osobennosti Krovososushchikh Moshek Rossii i Sopredel'nykh Stran (Diptera: Simuliidae)*), which indicate considerable differences from *S. vernum* s. s. However, the larger question of whether *itelmenica* is a synonym of *shutovae* remains, as originally mentioned under the name *itelmenica* by Adler & Crosskey (2015, *Zootaxa* **3975**: 71): The chromosomal maps of *itelmenica* (fig. 125) and *shutovae* (fig. 134) in Chubareva & Petrova (2008a) are taken from the identical photographs.

*Simuliites*. The fossil species *Simuliites brevirostris*, recorded in previous versions of the Inventory, was moved by Lukashevich, Pepinelli & Currie (2019 [2020], *Journal of Systematic Palaeontology* **18**: 224) to their newly established dipteran family Kaluginamyiidae. Although *S. brevirostris* was the type species for *Simuliites*, the genus is a collective group not requiring a type species under *International Code of Zoological Nomenclature* Principle 3 and Articles 13.3.2 and 42.3.1 (Lukashevich, Pepinelli & Currie (2019 [2020], *Journal of Systematic Palaeontology* **18**: 224).

#### Summary of new combinations and new synonyms for 2019

None.

#### Notes for the (2019) inventory

None.

#### Summary of new combinations and new synonyms for 2018

None.

#### Notes for the (2018) inventory marked with two sectional symbols (§§)

*chiangmaiense*. Pangjanda & Pramual (2017, *Zootaxa* **4231**: 424–429) consider *chiangmaiense* a synonym of *nakhonense*, based on chromosomal, molecular, and morphological evidence, whereas Takaoka (2017, *Zootaxa* **4353**: 438) and Takaoka, Srisuka, Maleewong & Saeung (2018, *Acta Tropica* **178**: 285–288) consider *chiangmaiense* a valid species.

*metallicum*. Cytoforms 'I', 'J', 'K', and 'black tip', previously considered cytoforms of the *metallicum* complex, were moved to the *horacioi* complex by Adler, Borkent, Hamada & McCreadie (2017, *Acta Tropica* **173**: 177).

*rapporum*. Py-Daniel, Coscarón & Pessoa (2017, *EntomoBrasilis* **10**: 218) proposed *rapporum* as a new name for *rappae* Py-Daniel & Coscarón, 1981; the name *rappae* was used before the original description of the species was published by Py-Daniel & Coscarón, 1982. Although the 1981 name was correctly recognized as a *nomen nudum* by Py-Daniel, Coscarón & Pessoa (2017, *EntomoBrasilis* **10**: 218), the name was validated in 1982, with a full treatment. The name *rapporum* (Py-Daniel, Coscarón & Pessoa, 2017) is, therefore, an unnecessary substitute name.

## Summary of new combinations and new synonyms for 2017

None.

## Notes for the (2017) inventory entries marked with one sectional symbol (§)

*banauense* species-group [as *banaense* species group]. We infer, based on the stated number of species and their geographic distributions, that the apparent new species-group in the subgenus *Gomphostilbia*—the *banaense* species-group—of Chen (2016, *Chinese Black flies*. Guizhou Science and Technology Publishing House Co., Ltd., Guiyang, China; p. 187) is actually a lapsus for the *banauense* species-group.

*hissetteum*. We add a new country record for Uganda, based on material collected by Angus McCrae in 1967 and identified by Andreas Krüger in 2016.

*ituriense*. We add a new country record for Uganda, based on material collected by Angus McCrae in 1966 and identified by Andreas Krüger in 2016.

*johannae*. We add a new country record for Uganda, based on material collected by Angus McCrae in 1968 and identified by Andreas Krüger in 2016.

*polyhookum*. Although originally placed in the *S. polyhookum* species-group established by Chen (2016, *Chinese Black flies*. Guizhou Science and Technology Publishing House Co., Ltd., Guiyang, China) in the subgenus *Nevermannia*, *S. polyhookum* can be accommodated in the subgenus *Schoenbaueria* on the basis of its male genitalia and well-developed postgenal cleft. Of the two other members assigned by Chen to the *S. polyhookum* group, *S. liaodongense* is conspecific with *S. konoï* (See **Notes for the 2014 inventory**) and, therefore, a member of the subgenus *Boreosimulium*, and *S. cherraense* would seem to be a member of the *S. vernum* group, although insufficient structural details and unknown life stages, other than the male, preclude a definitive statement.

*rutherfordi*. We add a new country record for Tanzania, based on material collected by Josef Halgoš in 1977 and identified by Andreas Krüger in 2016.

*sexiens*. We add a new country record for Uganda, based on material collected by Angus McCrae in 1966–1969 and identified by Andreas Krüger in 2016.

*tridens*. We add a new country record for Senegal, based on material collected by Angus McCrae in 1975 and identified by Andreas Krüger in 2016.

*velutinum*. Many of the distributional records originally held under *velutinum* have been transferred to the entry for *rubzovianum*, following chromosomal revision of the species limits of *S. velutinum* by Adler, Cherairia, Arigue, Samraoui & Belqat (2015, *Medical and Veterinary Entomology* **29**: 276–289).

## Notes for the (2016) inventory

None.

## Summary of new combinations and new synonyms for 2015

None.

## Notes for the 2015 inventory entries marked with four daggers (††††)

*galeratum*. See Note for *galeratum*\*\* in Notes for the 2009 inventory.

## Summary of new combinations and new synonyms for 2014

**Simulium konoï** (Takahasi, 1950)  
*liaodongense* Sun, 2012 **Syn. n.**†††

#### Notes for the 2014 inventory entries marked with three daggers (†††)

*argenteostriatum*. Earlier versions of the *Inventory* gave Albania ('Jablanica') as the type locality for *argenteostriatum*. However, M. Kúdela and A. Cupina pointed out to us that the correct type locality is Bosnia and Herzegovina where the species was collected along the Jablanica River. Strobl, the author of the name, lived at the time in Serbia and was writing about the simuliids of Bosnia, Hercegovina, and Dalmatia (now Croatia in part).

*fuscoflava*. The actual date of publication was 21 January 1949.

*liaodongense*. The expanded lateral plate and anteriorly directed apodeme of each arm of the female genital fork, shape of the male gonostylus, 4 slender gill filaments, and annulated larval antennae place *liaodongense* (Sun, 2012, *Acta Parasitologica et Medica Entomologica Sinica* **19**: 46–49) in the subgenus *Boreosimulium*, rather than *Nevermannia*. The illustrated features of the larvae, pupae, male, and female of *S. liaodongense* match those of *S. konoï* in all details, particularly in the diagnostic shape of the male ventral plate in ventral view, justifying synonymy.

#### Summary of new combinations and new synonyms for 2013

**Simulium chaurense** (Yankovsky, 2000) **Comb. n.**††

#### Notes for the 2013 inventory entries marked with two daggers (††)

*Austrosimulium*. We follow Dumbleton (1973 [1972], *New Zealand Journal of Science* **15**: 488–489), as supported by Craig, Craig & Crosby (2012, *Fauna of New Zealand* **68**: 17–18, 90–91), for the interpretation of the *Austrosimulium* species-group.

*chaurense*. We transfer this species from *Cnephia* to *Simulium* (*Hellichella*) on the basis of morphological characters originally described and illustrated by Yankovsky (2000, *Parazitologiya* **34**: 381–383) for the male holotype. The name *chaurenensis*, when combined with *Cnephia*, becomes *chaurense* (geographical name, from place in Taimyr) when combined with *Simulium*. The slender, evenly tapered, moderately curved gonostylus and particularly the multiple, long parameral spines indicate affinity with the subgenus *Hellichella*. No known member of the genus *Cnephia* has such long parameral spines. Other characters (e.g., shape of the median sclerite and ventral plate) described and illustrated for the holotype of *chaurenensis* agree with those of *Hellichella*, though they are not diagnostic. The species is placed in the *congareenarum* species-group largely on the basis of geographic distribution; all Palearctic members of the subgenus *Hellichella* are in this species-group. The female ascribed to *chaurenensis* probably is not conspecific with the holotype, and it, too, is not a member of the genus *Cnephia*. The original illustrations indicate that the spermatheca is too small and the anteriorly directed apodemes of the genital fork are too pronounced for membership in *Cnephia*. Examination of the original material is advised before assigning the female to a higher taxonomic category.

*Gomphostilbia*. We follow the most recent classification of Takaoka (2012, *Zootaxa* **3577**: 1–42) for interpretation of the limits and species-groups in the subgenus *Gomphostilbia*, which supersedes the earlier (2003) classification of Takaoka (see entry under **Notes for the 2008 inventory**).

#### Summary of new combinations and new synonyms for 2012

None.

#### Notes for the 2012 inventory entries marked with one dagger (†)

*albellum* species-group. We follow the revision of Hernández (2011, *Systematics of the Blackfly Subgenus Trichodagmia Enderlein (Diptera: Simuliidae: Simulium) in the New World*) in subsuming *Obuchovia*, as the *albellum* species-group, under *Trichodagmia*. The synonymy originally had been proposed by Adler, Currie & Wood (2004, *The Black Flies (Simuliidae) of North America*: 369).

*annuliforme*. Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 20) found only the genitalia of the type of *S. annuliforme*. They stated that the illustration by Rubtsov (1962, *Die Fliegen der palaearktischen*

*Region (III) 14*: 277–278) did not “conform quite well” with the type, and claimed that there is little doubt *annuliforme* should be a synonym of *annulus*. However, the nonbiting mouthparts and minute sensory vesicle of the female illustrated by Rubtsov (1962), if representative of the type, do not indicate *annulus*, but rather a species in the *baffinense* group. We, therefore, retain *annuliforme* in the *baffinense* group.

*beltukovae*. Ilmonen, Adler, Malmqvist & Cywinska (2009, *Zoological Journal of the Linnean Society* **156**: 847–863) indicated that *juxtacrenobium* might be a synonym of *erectum*, but the condition of the holotype of the latter did not permit a definitive decision. In the interest of nomenclatural stability, we accept the synonymy of *erectum* with *beltukovae*. Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 25) synonymized *minutum* Rubtsov, 1959, with *beltukovae*, recognizing that *minutum* Rubtsov, 1959, was preoccupied, but apparently unaware of the substitute name *minuticorpus* (Yankovsky, 1996). We agree with the synonymy. The synonymy of *carpathicum* with *beltukovae* has been suspected informally, based on morphological criteria, by us and others, such as J. Ilmonen and D. M. Wood; we agree with the synonymy of Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 25).

*bilineata*. We accept the synonymies proposed by Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 7), recognizing that the resulting distributional range for *M. bilineata* becomes enormous, with the implication that *M. bilineata* is probably a species complex, as suggested for *saileri* by Adler, Currie & Wood (2004, *The Black Flies (Simuliidae) of North America*: 304). Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 7) claimed, based on correspondence from H. Zwick, that *fuscipes* Fries 1824 is a valid name in the *ruficornis* group, but did not indicate to which of the two Fennoscandian species (*angustitarse* or *lundstromi*), if either, the name should apply. We have not seen the Fries material and, therefore, tentatively place the name in the *S. ruficornis* species-group as a distinct entity, pending further study. If *fuscipes* Fries 1824 is correctly placed in the *ruficornis* group, either *angustitarse* or *lundstromi* likely falls as a synonym of *fuscipes*.

*dogieli*. Two eight-filamented species in the subgenus *Hellichella* have been confirmed as chromosomally distinct in northern Fennoscandia (Rothfels & Golini, 1983, *Canadian Journal of Zoology* **61**: 1220–1231). These entities have been linked to the names *rendalense* and *usovae*. Their relationships to *S. dogieli* and *S. fallisi* have remained problematic (Golini, 1987, *Canadian Journal of Zoology* **65**: 708–721). Despite considerable prospecting in northern Finland and Sweden, and associated chromosomal examination, no additional species of *Hellichella* have been found. The implication is that either *rendalense* or *usovae* is a synonym of *dogieli*, but not both. We accept the synonymy proposed by Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*), of *rendalense* with *dogieli*. Chromosomal studies in arctic Canada suggest that *usovae* might be a synonym of *anatinum*, chromosomal intermediates occurring in a large swath through northcentral Canada (Adler, unpublished).

*elatum*. Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 28) suggest that *elatum* is an older name for *cryophilum*. The type locality of *elatum* is Azerbaijan. Recent chromosomal study of *cryophilum* in neighboring Armenia (Adler, unpublished) indicates a different cytoform; therefore both names, *cryophilum* and *elatum*, might apply to legitimate species; more study, especially of geographically intermediate populations, is necessary before recommending synonymy.

*elburnum*. Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 36) proposed synonymy of *elburnum* Rubtsov & Carlsson, 1965, with *tsheburovae*. We feel that the synonymy is ill conceived. The name *elburnum* was proposed for the species identified by Rubtsov (1956, *Blackflies (fam. Simuliidae) [Moshki (sem. Simuliidae)]*: 361–362) as *S. minutissimum*. The life stages of *S. minutissimum* illustrated by Rubtsov (1956), however, appear to be those of a member of the subgenus *Boreosimulium*, probably *S. annulus*, as evidenced by the prominent anteriorly directed apodeme on each arm of the genital fork, tapered male gonostylus with a crook at midlength, four-filamented pupal gill, and simple cocoon. We, therefore, synonymize *elburnum* with *annulus*.

*fuscipes*. This species previously was placed in the genus *Metacnephia*. See note above for *bilineata*.

*keenani*. The suggested synonymy of *keenani* with *earlei* by Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*: 64) was legitimized by Hernández (2011, *Systematics of the Blackfly Subgenus Trichodagmia Enderlein (Diptera: Simuliidae: Simulium) in the New World*: 41).

*latimanus*. Given the revalidation of *S. galeratum* as a distinct species, supported by molecular data (Day, Goodall & Post (2008, *Medical and Veterinary Entomology* **22**: 55–61), the recall by Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*) of *latimanus* (with *reptantoides* as its synonym) from synonymy with *reptans* seems premature; we, therefore, retain *latimanus* and *reptantoides* in synonymy with *reptans*.

*longibranchiale*. This name was first used in print by Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 28), who stated that it refers to a label on a specimen in the Rubtsov collection.

*macropyga*. The type locality of this species previously has been reported as Finland; however, Jari Ilmonen (pers. comm.) has pointed out to us that the type locality is Russia, not Finland. The original description states that the type specimens were collected from “Laponia rossica, Lmur, Litsa in der Nähe der Küste des Eismeer.” The village Litsa is in the Murmansk Region and has never been a part of independent Finland.

*majalis*. Although Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 14) recognize *St. majalis* as a valid species and revalidate the name, the genus *Stegopterna* in Fennoscandia consists of at least four cytoforms (Adler, Malmqvist & Zhang, 1999, *Entomologica Scandinavica* **29**: 361–382), and currently is too confused to assign names confidently. Raastad, Usova & Kuusela (2010) state that *St. trigonium* cytospecies 1 of Adler, Malmqvist & Zhang (1999) might be *majalis*, but do not provide rationale for the claim.

*meigeni*. Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 19) declared that the name *meigeni*, as published by Rubtsov & Carlsson (1965, *Acta Universitatis Lundensis (II)* **18**: 19), is a *nomen nudum* and that its validity should start with Rubtsov (1971, New and Little-known Species in the Fauna of Siberia [Novye i Maloizvestnye Vidy Fauny Sibiri] **5**: 103–104). The name, however, is available, as discussed by Crosskey, Adler, Zunming & Chengyu (1996, *Journal of Natural History* **30**: 418). Further, Rubtsov recognized the Rubtsov & Carlsson (1965) name as available and valid because he headed his 1971 treatment “*meigeni* Rubz. et Carlss.” Although the 1971 treatment gives new information (figure and material data, including ‘holotype’ statement), Rubtsov gives no indication that he thought *meigeni*, as first published in 1965, was a *nomen nudum*. On the interpretation that *meigeni* Rubtsov & Carlsson (1965) is available, the material on which Murmansk, Leningrad, and Scandinavia distribution records are based comprises the type material (i.e., syntypes); Yankovsky’s (1995, *Catalogue of Type Specimens in the Collection of the Zoological Institute, Russian Academy of Sciences [Katalog Tipovykh Ekzempliarov Kollektzii Zoologicheskogo Instituta RAN*: 37) designation of a lectotype (a female from Murmansk) for *meigeni* Rubtsov & Carlsson (1965), therefore, is valid. (See also Notes for *dogieli* and *tsheburovae*).

*mixtum*. This name was first used in print by Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*), who stated that it refers to a label on a specimen in the Rubtsov collection.

*ramificata*. Despite extensive sampling in Fennoscandia, only three species of *Metacnephia* have been revealed chromosomally (*M. bilineata* [previously *M. saileri*], *M. lyra*, and *M. tredecimata*). We, therefore, do not recognize the report of Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*) of *M. ramificata* from Fennoscandia, and we continue to treat *trigoniformis* in the synonymy of *lyra*.

*sericeum*. This name formerly was synonymized with *reptans*. We have no reason not to accept it as a synonym of *truncatum*, although no comment was given by Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*) as to why the junior synonym is being treated as the valid name.

*subpusillum*. The opinion of Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 44) that *S. subpusillum* is equivalent to *S. annulitarse* is incorrect. *Simulium annulitarse*, based on syntype females and the established lectotype, is clearly a member of the *S. tuberosum* species-group (Adler, Malmqvist & Zhang, 1999, *Entomologica Scandinavica* **29**: 375), and the name falls under *subpusillum* only in the misidentified sense. Further, their claim that the designation of a neotype for *S. subpusillum* by Adler, Currie & Wood, 2004 (*The Black Flies (Simuliidae) of North America*: 348) is unjustified overlooks the fact that the lectotype established by Yankovsky (1995) is based on a specimen collected 15 years after the original description of the species and, therefore, has no status.

*tsheburovae*. Although Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 36) placed *S. tsheburovae* in the subgenus *Nevermannia*, we retain it in the subgenus *Hellichiella*, as per Adler & Crosskey (2011, *World Blackflies (Diptera: Simuliidae): a Comprehensive Revision of the Taxonomic and Geographical Inventory [2011]*; Note for 2008 Inventory). Within the subgenus *Hellichiella*, the name *tsheburovae* probably will subsume one or more of the existing Palearctic species names in this subgenus (*dogieli*, *fallisi*, *meigeni*, *rendalense*, *usovae*).

*tumulosum*. The synonymy of *tumulosum* with *janzeni* proposed by Raastad, Usova & Kuusela (2010, *Blackflies of Northern Europe (Diptera: Simuliidae)*: 59) is unlikely and not accepted here because the distributions of *S. janzeni* and *S. tumulosum* probably do not overlap. *Simulium janzeni* is a European species not known from Fennoscandia, whereas the type locality of *S. tumulosum* is Siberia (Irkutskaya).

*zetterstedti*. Although the name *zetterstedti* would seem to apply to a member of the *reptans* species-group based on Carlsson’s (1962, *Opuscula Entomologica (Supplement)* **21**: 26) illustration of the male genitalia, Raastad, Usova & Kuusela (2010: 44) regard it as a member of the subgenus *Schoenbaueria*. If Carlsson (1962) based his illustration on the specimen that he designated as the holotype, which we have not seen, then *S. zetterstedti* is clearly a member of the *S. reptans* species-group; we retain it as such, recognizing that it eventually could fall into synonymy with *reptans*.

## Summary of new combinations and new synonyms for 2011

**Simulium zagros** (Yankovsky, 2010) **Comb. n.**

**Simulium birzhankolum** (Yankovsky, Isakaev & Khasanova, 2010) **Comb. n.**

**Simulium iranikum** (Yankovsky, 2010) **Comb. n.**

**Simulium lurestanicum** (Yankovsky, 2010) **Comb. n.**

### Notes for the 2011 inventory entries marked with four asterisks (\*\*\*\*)

Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*) list 9 *species inquirendae*. We do not use this designation, choosing instead to retain these entities as recognized taxa, that is, as hypotheses to be tested. Their placement in the Inventory reflects the best information currently available. *Species inquirendae* listed by Shelley *et al.* (2010) are the following (alphabetically): *blantoni*, *catarinense*, *fuliginis*, *incertum*, *infuscatum* (*varietas inquirenda*; p. 204), *jacobsi*, *lurybayae*, *paranense*, *parimaense*.

*Araucnephia*. See note below for *Lutzsimulium*.

*Araucnephioides*. See note below for *Lutzsimulium*.

*ignacioi*. Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*: 391-392) list *ignacioi* as a synonym of *rorotaense*. However, because a chromosomally and morphologically distinct species occurs in the general area of the type locality of *ignacioi* (Hamada & Grillet, 2001, *Entomotropica* **16**: 34), we maintain *ignacioi* as the name for this distinct species until contrary evidence comes to light.

*keenani*. Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*: 64) suggest that *keenani* might be a synonym of *earlei*.

*Lutzsimulium*. Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*: 150-151) synonymised *Araucnephia* and *Araucnephioides* with *Lutzsimulium*. Cladistic analysis, however, indicates that these groups do not form a monophyletic group (Gil-Azevedo, 2010, *Zoologia* **27**: 761-768). We, therefore, retain them as separate genera until their proper phylogenetic placement can be resolved.

*Psaroniocompsa*. We follow Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*: 233-357) in their revised interpretation of the limits and species-groups of the subgenus *Psaroniocompsa*, which subsumes the erstwhile subgenus *Inaequalium*.

*Psilopelmia*. We follow Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*: 358-406) in their revised interpretation of the limits and species-groups of the subgenus *Psilopelmia*, which subsumes the erstwhile subgenus *Ectemnaspis*.

Simulioidea. Bertone, Courtney & Wiegmann (2008, *Systematic Entomology* **33**: 681), on the basis of four nuclear genes, concluded that the Simuliidae and Thaumaleidae are sister taxa and established the superfamily Simulioidea to accommodate these two families. By the Principle of Coordination (*Code*, Article 36.1), “a name established for a taxon at any rank in the family group is deemed to have been simultaneously established for nominal taxa at all other ranks in the family group.” The superfamily Simulioidea, therefore, carries the authorship (Newman) and date (1834) of the family.

*Tetrasimulium*. This incorrect subsequent spelling of *Tetisimulium* was attributed by *Zoological Record* (2009, p. 561 of Diptera part, volume 145) to Zhang, Liu, Shi, Yang & Gong (2008, *Chinese Journal of Hygiene Insect & Equipment* **14**: 487). However, the name is spelled correctly by Zhang *et al.* but misspelled by *Zoological Record*. We rarely address details for incorrect spellings, but note this instance because of the key location of the error and the rarity with which *Zoological Record* indexers make these kinds of mistakes.

*Trichodagmia*. We follow Shelley, Hernández, Maia-Herzog, Luna-Dias & Garritano (2010, *The Blackflies (Diptera: Simuliidae) of Brazil*: 406-464) in their revised interpretation of the limits and species-groups of the subgenus *Trichodagmia*, which subsumes the erstwhile subgenus *Hemicnetha*.

*yui*. The description and illustrations of *yui* presented by An & Ge (2009, *Acta Parasitologica et Medica Entomologica Sinica* **16**: 247-249) conform in all details with those of *S. decimatum*, although the pupal gill of *yui* is apparently presented upside down and the number of teeth on the mandible of the female is greater than typical specimens of *S. decimatum*. The type locality of *yui* also

falls within the distribution of *S. decimatum*. We, therefore, synonymize *yui* with *decimatum*.

### Summary of new combinations and new synonyms for 2010

***Simulium lochmocola* (Sun, 2008) Comb. n.**

***Simulium decimatum* Dorogostaisky, Rubtsov & Vlasenko, 1935  
*yui* An & Yan, 2009 Syn. n.\*\*\*\***

### Notes for the 2010 inventory entries marked with a triple asterisk (\*\*\*)

*akopi*. Although previously placed in the *S. vernum* group, based on the original claim of Chubareva & Kachvoryan (2000, *Parazitologiya* **34**: 470–476), *S. akopi* has chromosomal features that align it more closely with the *S. ruficorne* group, according to our assessment of the chromosomal map presented in figure 115 of Chubareva & Petrova (2008, *Tsitologicheskie Karty Politennykh Khromosom i Nekotorye Morfologicheskie Osobennosti Krovososushchikh Moshek Rossii i Sopredel'nykh Stran (Diptera: Simuliidae)*).

*borealis*. The type locality of this species in Canada previously has been reported as Northwest Territories; however, D. C. Currie has pointed out to us that the original collector, Diamond Jenness, in his diary (Jenness, 1991, *Arctic Odyssey: Diary of Diamond Jenness, 1913–1916*: 465) indicates that he spent nearly the entire summer of 1915 along the southwestern margin of the Wollaston Peninsula, an area clearly within Nunavut.

*bovis*. Botswana is added to the distribution for this species on the basis of Palmer & de Moor (1998, *African Entomology* **6**: 233), who recorded it from Groblersbrug on the Limpopo River where this forms the international border between South Africa and Botswana.

*damnosum*. Botswana is added to the distribution for this species on the basis of Palmer & de Moor (1999, *British Simuliid Group Bulletin* **14**: 11), who mark a locality square on the Limpopo River where this forms the international border between Botswana and South Africa.

*dentulosum*. A probable new species of the subgenus *Anasolen*, with 14 pupal gill filaments as in *S. dentulosum*, occurs on the Comoro Islands (Anjouan) where it is quite common (Crosskey, unpublished; [later published: *British Simuliid Group Bulletin* **37**: 6]).

*Gigantodax*. In their revision of *Gigantodax*, Wygodzinsky & Coscarón (1989, *Bulletin of the American Museum of Natural History* **189**: 1–269) recognized 8 species groups, although the *cortesi* species-group later was recognized dubiously as the genus *Pedrowygomia*. Pinto-Sanchez et al. (2004, *Insect Systematics and Evolution* **36**: 219–240) in a cladistic analysis recognized 6 species groups, although more than 20 species remained unplaced to group, and suggested that 4 of the original species-groups were not monophyletic. We follow the original arrangement of Wygodzinsky & Coscarón (1989) without explicitly endorsing that classification.

### Summary of new combinations and new synonyms for 2009

***Simulium pydanieli* (Pessoa, Medeiros & Barbosa, 2008) Comb. n.**

### Notes for the 2009 inventory entries marked with a double asterisk (\*\*)

*arcticum*. Under the name *arcticum*, we accommodate the numerous cytoforms that have been discovered in the *S. arcticum* complex, some of which are probably legitimate species. The IIL-3 cytoform represents true *S. arcticum* (Adler, Currie & Wood, 2004, *The Black Flies (Simuliidae) of North America*: 397) and might be the only vernacular name that legitimately pertains to *S. arcticum* sensu stricto. The geographic distribution in the first entry is given only for *S. arcticum* s. s. (i.e., IIL-3).

*galeratum*. The status of the name *galeratum* has long been controversial, but in recent times it usually has been treated as synonymous with *reptans*. However, a combined molecular and morphological study of *reptans* sensu lato in England by Day, Goodall & Post (2008, *Medical and Veterinary Entomology* **22**: 55–61) showed the presence of two species, to one of which the name *galeratum* applies. For present purposes, we accept *galeratum*, but note that it remains uncertain whether populations from

continental Europe, which have been called *galeratum* in the past, are conspecific with those in Britain. [Note added in 2014: The nomenclatural situation was updated by Kúdela, Brúderová, Jedlička, Bernotienė, Celec & Szemes (2014, *Zootaxa* **3802**: 301–317).]

#### Summary of new combinations and new synonyms for 2008

**Helodon laamii** (Beaucournu-Saguez & Bailly-Choumara, 1981) **Comb. n.**

**Simulium (Inaequalium) lundii** (Py-Daniel & Barbosa, 2007) **Comb. n.**

**Simulium (Montisimulium) onum** (Bodrova, 1988) [*in* Bodrova & Luk'yanchuk] **Comb. n.**

**Simulium (Nevermannia) itelmenica** (Chubareva & Yankovsky, 2006) **Comb. n.**

**Simulium (Simulium) tshuni** (Yankovsky, 2006) **Comb. n.**

**Metacnephia lyra** (Lundström, 1911)

*trigoniformis* Yankovsky, 2003 [2002] **Syn. n.\***

**Simulium inaequale** (Paterson & Shannon, 1927)

*hauseri* Strieder, 1998 (thesis) (unav., *nomen nudum*) **Syn. n.**

*hauseri* Coscarón & Coscarón-Arias, 2007 (unav., *nomen nudum*) **Syn. n.**

**Stegopterna decafilis** Rubtsov, 1971

*hamuligera* Yankovsky, 1977 **Syn. n.\***

#### Notes for the 2008 inventory entries marked with an asterisk (\*)

The following list of annotations follows the format of the 2004 web-based Inventory version. Entries in the following list refer to names marked with an asterisk (\*) in the current Inventory. Names are listed alphabetically and shown in italics (except for vernaculars) regardless of rank or nomenclatural status. Titles of articles are omitted, and literature citations are restricted to the journal reference or book title. Describers' names are omitted because they are evident from the inventory text. *Code* refers to the *International Code of Zoological Nomenclature* (4<sup>th</sup> edition, 1999).

*amazonicum* species-group. We follow Shelley *et al.* (2006, *Zootaxa* **1274**: 1–68) in their interpretation of the *amazonicum* species-group.

*angustipes*. We add a new country record for this species, based on our chromosomal analysis of larvae from Mongolia: Gorkhit River, Gorkhi Terelj National Park, 47°53.23'N 107°26.19'E, 21 July 2004. Larvae are, however, chromosomally unique in having differentiated sex chromosomes.

*antillarum*. Coscarón & Coscarón-Arias (2007, *Neotropical Simuliidae (Diptera: Insecta)*: 418) list *antillarum* as a valid species, with *pseudoantillarum* as a synonym; we follow the rationale of Shelley *et al.* (2000, *Bulletin of the British Museum (Natural History) (Entomology)* **69** (2): 171–221) in recognizing both names as synonyms of *ochraceum*, although once formal names are assigned to the various sibling species in the *ochraceum* complex, these names might again be applied to distinct species.

*annuliforme*. The holotype female of *S. annuliforme* is similar to females of the *S. baffinense* species-group and might be conspecific with one of the group's included species. We, therefore, move *S. annuliforme* from the *S. annulus* species-group to the *S. baffinense* species-group. The male that Rubtsov (1962, *Die Fliegen der palaearktischen Region (III)* **14**: 277–278) initially and in subsequent works associated with the female of *S. annuliforme* corresponds in every respect with that of *S. annulus* and is here treated as a misidentification under that species.

*bezzii*. Our chromosomal analysis indicates that *S. bezzii* in Armenia is a complex of at least two reproductively isolated species; some of the synonyms currently listed under *S. bezzii* might apply to one or more of these cytoforms.

*buettikeri*. We have two females, clearly members of the *buettikeri* species-group, that were collected from cattle (*Bos indicus*) in Afghanistan: Bahkian, Parwan Province, 35°58'27"N 69°22'57"E, 11 June 2003. Both females have the characteristic tuft of macrotrichia posterior to the metathoracic spiracle and a complete lack of a calcipala. Although we tentatively place these specimens under *S. buettikeri*, they probably represent a separate species, differing from *S. buettikeri* by having a frons only slightly wider than the antenna and brown femora.

*canadense* species-group. Some authors (e.g., Coscarón & Coscarón-Arias, 2007, *Neotropical Simuliidae (Diptera: Insecta)*: 561–562) recognize the *canadense* species-group as subgenus *Hearlea*, with two species groups (i.e., *carolinae* and *juarezi* species-



groups). Adler, Currie & Wood (2004, *The black flies (Simuliidae) of North America*: 369) argued for the recognition of a simplified classification with greater information content and emphasis on similarities among the various species-groups of subgenus *Hemicnetha* as recognized here.

*cryophilum*. The *cryophilum* complex consists of at least two reproductively isolated species, cytoforms 'A' and 'B2', that overlap widely in geographic distribution. New records for cytoform 'A' include Austria, near Seekirchen Fischbach, 29 March 2000; and Switzerland, Ascona, 26 March 2001.

'near *dandrettai*'. Coscarón & Coscarón-Arias (2007, *Neotropical Simuliidae (Diptera: Insecta)*: 454) suggested that pupal differences between *dandrettai* and 'near *dandrettai*', albeit slight, might indicate the existence of two species.

*equinum* species-group. We combined the previously recognized *lineatum* species-group with the *equinum* species-group, the morphological distinction between the two groups being small.

*falculatum*. Vulcano (1967, *A Catalogue of the Diptera of the Americas South of the United States* 16: 11) correctly showed that "Bora" in Enderlein's (1929, *Deutsche Entomologische Zeitschrift* 1929: 327–328) original statement of the type locality ("Bora del Monte") is a mistake for Boca and that Boca del Monte is in Veracruz State.

*fulvinotum*. The intended original description of this species was published by Cerqueira & Nunes de Mello (*in* Cerqueira, 1968, *Amazoniana* 1: 205–210). The name, however, is available from the previously published work of Cerqueira (1967, *Atas do Simpósio sobre a Biota Amazônica* 5 (Zoologia): 127–139).

*Gomphostilbia*. We follow Takaoka (2003, *The Black Flies (Diptera: Simuliidae) of Sulawesi, Maluku and Irian Jaya*: 50–56) in his revised interpretation of the limits and species-groups of the subgenus *Gomphostilbia*. Accordingly, we do not recognize the *altayense* species-group, which was established by An and Chen (2007, *Acta Parasitologica et Medica Entomologica Sinica* 14: 111) on the basis of a weakly developed calcipala in two species (*S. altayense* and *S. meadowi*).

*hamuligera*. The original description and illustrations of *hamuligera* conform in every respect to those of *decafilis*, most notably regarding the pupal gill of 10 filaments and the untoothed mouthparts of the female. In addition, the chromosomes of larvae that we examined from Khabarovsk Territory (Solnechnyi District, branch of Amgun' River, unnamed stream south of Sonah River Basin, 51°26.822'N 135°15.320'E, 29 July 2006), the general area of the type locality of *hamuligera*, have the same banding pattern as those of *St. decafilis* from Alaska, the Northwest Territories (Adler, Currie & Wood, 2004, *The Black Flies (Simuliidae) of North America*: 285), and Anadyr, Russia (unpublished). We examined the slidemount of the holotype female and its associated exuviae, as well as other slidemounts of *hamuligera*, in the collection of the Zoological Institute, St. Petersburg. All slides, however, are in poor condition, with deterioration of the mounting medium, and no details can be gleaned reliably from the preparations in their current condition. With no evidence to the contrary, we synonymize *hamuligera* with *decafilis*.

*Hebridosimulium*. We follow Craig *et al.* (2006, *Zootaxa* 1380: 1–90) in recognizing their species-groups of *Hebridosimulium*.

*Helodon (Helodon)*. Several species, previously placed in *Helodon* (as genus or subgenus) by various workers, properly belong in the genus *Prosimulium* based on adult characters such as the elongate hypogynial valves of the female and pronounced lip of the ventral plate of the male (e.g., *albense*, *apoina*, *arshanense*, *sarurense*, *yezoense*). Other species (*candicans*, *intercalare*, *pamiricum*, *pecticrassum*), at times placed in *Helodon*, belong in the *Prosimulium macropyga* species-group, based on chromosomal characters. Still other species, (*oligoaristatum*), although known only from larvae, are better placed in *Prosimulium* because of their resemblance to species of that genus with known chromosomes or adults. The placement of a few species remains problematic because of incomplete descriptions and lack of associated life stages. One such species is *unispinum*, here placed in the genus *Prosimulium* on the basis of an apparently narrow ventral plate with a pronounced lip; it is tentatively assigned to the *hirtipes* species-group. Another is *mesenevi*, here tentatively recognized in *Helodon*, on the basis of its resemblance, perhaps superficially, to *H. irkutensis* in the larval stage. On the other hand, we place *laamii*, which typically has been in the genus *Prosimulium*, in *Helodon (Helodon)*, based on a number of diagnostic characters such as the short, rounded hypogynial valves of the female. Its southern distribution, however, is anomalous vis à vis the typical northern Holarctic distribution of other members of the subgenus *Helodon*.

*hieroglyphicum*. We add a new country record, based on three pupae collected in Panama: Chiriqui, Cerro Punta, 8°53'N 82°36'W, 23 June 1999.

'indet.' This apparently undescribed species was placed by Belqat *et al.* (2001, *British Simuliid Group Bulletin* 17: 12) in the *venustum* species-group on the basis of the IIS-C chromosomal sequence. It, however, has the fundamental IIIIL sequence found in the *bezzii*, *ornatum*, and *noelleri* species-groups, as well as in all cytologically examined members of the chromosomally ill-

defined *variegatum* species-group (Adler, unpublished). Larvae have a negative head-spot pattern and a postgenal cleft intermediate between that of the *venustum* and *variegatum* species-groups. Pupae have six filaments and a slipper-shaped cocoon. Correct placement of this species must await discovery of the adults.

*Inseliellum*. We follow Craig & Joy (2000, *Annals of the Entomological Society of America* **93**: 1237) in recognizing their species-groups in the subgenus *Inseliellum*.

*kariyai*. This species, known only from a superficial description of the male, previously had been placed in the subgenus *Boreosimulium*. The following characters, however, suggest that the species is a member of the subgenus *Simulium*, as suggested by Adler, Currie & Wood (2004, *The Black Flies (Simuliidae) of North America*: 314): base of radius bare, scutum patterned, and legs banded. Accordingly, we place *kariyai* in the subgenus *Simulium* and, based on the putative similarity to *S. quinquestriatum* (Takahasi, 1940, *Insecta Matsumurana* **15**: 65), in the *striatum* species-group.

*kirjanovae*. In a band-by-band comparison of the chromosomes of *M. saileri* (as *pallipes*) from Murmansk and *M. kirjanovae* from the type locality, Petrova (1979, *Ecological and Morphological Principles of Diptera Systematics (Insecta) [Ekologicheskie i Morfologicheskie Osnovy Systematiki Dvukrylykh Nasekomykh]*: 79–81) indicated that the banding sequences were the same, and that the main morphological feature distinguishing *kirjanovae* and *saileri* was the pupal branching pattern. She concluded that "we are dealing with a single species," but hesitated to synonymize *kirjanovae*. Not having seen material of *M. kirjanovae*, we prefer not to commit the name to synonymy at this time.

*longicoxa*. Of the four subspecies described under the name *richteri*, only *longicoxa* has weakly developed female mouthparts. We, therefore, recognize *longicoxa* separately from *St. richteri* sensu stricto, whose females have fully toothed maxillae and mandibles, although we note that *longicoxa*, nonetheless, might be synonymous with one of the non-bloodfeeding species of *Stegopterna* (e.g., *decafilis*, *emergens*).

*longipile*. The authorship and date of *longipile* should be Radzivilovskaya (1948), not Rubtsov (1956), as explained by Adler, Currie & Wood (2004, *The Black Flies (Simuliidae) of North America*: 339).

*lundi*. This species was placed, "temporarily" and with little justification, in the *maranguapense* species-group (*Acta Amazonica* **37**: 465). Because substantive characters to justify a new species group are lacking and because the subgenus *Inaequalium* is small and already includes two species groups, we place this species in the *inaequale* species-group.

*manense*. Country records include some based on current study of the subgenus *Freemanellum* by R. W. Crosskey.

*Morops*. We follow Takaoka (2003, *The Black Flies (Diptera: Simuliidae) of Sulawesi, Maluku and Irian Jaya*: 230–233) in his revised interpretation of the limits of the subgenus *Morops*.

*onum*. The obscure description of this species appeared in the work of Bodrova & Luk'yanchuk (1988, On the knowledge of the blackfly (Diptera, Simuliidae) fauna of Sakhalin Island, *Fauna, Sistematika i Biologiya Presnovodnykh Bespozvonochnykh*, DVO AN SSSR, Vladivostok: 21, 27). Proposed as a 'nom. nov.', the name actually applies to a new species that Ono (1977, *Japanese Journal of Sanitary Zoology* **28**: 179–185) misidentified as *sakhalinum* from Hokkaido, Japan. The name, therefore, is not a homonym in need of a substitute name. Bodrova intended the name as an honorific for Ono. Although the name is malformed, under the present *Code* it is merely a case of 'incorrect latinization', coming within the meaning of the wording of the second sentence of Article 32.5.1. The name *onoi*, authored by Yankovsky (1996) and later by Sato & Takaoka (2004), therefore, is not homonymous.

*oviedoi*. This species and *S. rivasi* were transferred to the subgenus *Psilopelmia* by Hernández (2011, *Systematics of the Blackfly Subgenus Trichodagmia Enderlein (Diptera: Simuliidae: Simulium) in the New World*: 258–265), although Coscarón & Coscarón-Arias (2007, *Neotropical Simuliidae (Diptera: Insecta)*: 556–557) consider *oviedoi* and *rivasi* as members of the *oviedoi* species-group in the subgenus *Hemicnetha*.

*Pedrowygomyia*. This genus probably should be synonymized with *Gigantodax* from which it was cleaved off by Coscarón & Miranda-Esquível (1998, *Entomologica Scandinavica* **29**: 161–167) and from which it differs only in minute structural characters. We hesitate, however, to do so formally until a thorough cladistic reanalysis is completed.

*Prosimulium*. See note above for *Helodon*.

*rivasi*. Same situation as for *oviedoi*; see above.

*trigoniformis*. This name was authored by Yankovsky (2003, *Opredelitel' Moshek (Diptera: Simuliidae) Rossii i Sopredel'nykh Territorii (Byvshego CCCR)*: 9, 213, 218, 223) as a “*nom. n.*” for *trigonia* sensu Rubtsov, 1956, and appears in his checklist and keys to species. The name, however, was intended for a new species, which had been misidentified as *trigonia* by Rubtsov (1956). No type was designated, and the name, therefore, is unavailable under Code Article 16.4.1. Further, we can find no compelling differences between *Metacnephia lyra* and *Cnephia trigonia* sensu Rubtsov, 1956. The name *trigoniformis*, therefore, falls as a synonym of *lyra*.

*tsheburovae*. The slender, tapered gonostylus and numerous parameral spines in the male genitalia of *S. tsheburovae* suggest a relationship with members of the subgenus *Hellichiella* (Adler, Currie & Wood, 2004, *The Black Flies (Simuliidae) of North America*: 314); consequently, we move this species from the *S. annulus* species-group of *Boreosimulium* and place it in the subgenus *Hellichiella* (*congareenarum* species-group).

*tuberosum*. The name *tuberosum* has been applied over a large geographic area, and many of the European records refer to other species. As currently recognized, *Simulium tuberosum* is a Nearctic and northern Palearctic species. In North America, it consists of two cytoforms, ‘A’ and ‘AB’, possibly representing separate species. Their geographic distributions are given by Adler, Currie & Wood (2004, *The Black Flies (Simuliidae) of North America*: 834, 835).

*vega*. We find no compelling structural differences that distinguish *vega* from *himalayense* and, therefore, suggest synonymy. This hypothesis could be confirmed by examination of the respective types, preferably with chromosomal or molecular study of topotypical material. We do, however, agree that ‘sp. A’ and ‘sp. B’ as described by Maskey (1998, *Journal of Natural History Museum* **17**: 10–13, 19–21) represent species distinct from *vega* and, therefore, place them near the end of the *variegatum* group, although they, too, might represent synonyms of previously described species.

*vernum*. *Simulium vernum* is a widespread complex consisting of an unknown number of sibling species. The ‘Hornvik’ cytoform is a distinct species on the basis of chromosomes (Brockhouse, 1991, Ph.D. thesis, University of Toronto: 55–58) and hard-parts morphology (Peterson, 1977, *Canadian Entomologist* **109**: 461–472; as *S. vernum*).