

Additions and corrections to Part I of 'A World Catalogue of Chironomidae (Diptera)'

Patrick Ashe¹ and James P. O'Connor²

Ashe P and O'Connor JP. 2012. Additions and corrections to Part 1 of 'A World Catalogue of Chironomidae (Diptera)'. *Fauna norvegica* 31: 125-136.

An update of the more significant changes affecting Part 1 of 'A World Catalogue of Chironomidae (Diptera)' is provided. These concern new taxon names, new combinations and new synonymies that were proposed, as well as omissions and errors detected, since the publication of the Catalogue at the end of 2009.

doi: 10.5324/fn.v31i0.1366. Received: 2011-10-12. Accepted: 2012-07-17.

Published on paper and online: 2012-10-17.

Keywords: Chironomidae, World Catalogue Part 1, additions, corrections

1. 33 Shelton Drive, Terenure, Dublin 12, Ireland

2. Emeritus Entomologist, National Museum of Ireland, Kildare Street, Dublin 2, Ireland

Corresponding author: Patrick Ashe

E-mail: patrick.ashe@upcmail.ie

INTRODUCTION

Part 1 of 'A World Catalogue of Chironomidae (Diptera)', covering the subfamilies Buchonomyiinae, Chilenomyiinae, Podonominae, Aphroteniinae, Tanypodinae, Usambaromyiinae, Diamesinae, Prodiamesinae and Telmatogetoninae, was published on the 30th December 2009 (Ashe & O'Connor 2009). It was initially intended to update Part 1 in the forthcoming Part 2 (subfamily Orthocladiinae) but this has proved impractical. The changes presented here include new taxon names, new combinations, new synonymies and some omissions and corrections. If a taxon name has changed status (validated, synonymized, etc.), publication year or spelling, a replacement entry is provided. Most of the changes affect the Tanypodinae, with a few in the Podonominae, Diamesinae and Telmatogetoninae – data on the remaining subfamilies are unchanged. A taxonomic index (with page numbers to indicate placement) and notes (where relevant) are included to supplement those published in Part 1. The publication dates of a few references are corrected in the bibliography. For a full explanation of the arrangement of the Catalogue, see the general introduction in Ashe & O'Connor (2009).

In Catalogue Table 2 (p. 27), the typographical error "NARTARSIINI" must be corrected to NATARSIINI. In Table 3 (p. 29) and twice in the text (p. 28), replace "HARRISONIINI" with the correct spelling, HARRISONINI (see also Catalogue p. 262 and the corresponding **Note** below). Also in Table 3, replace "PROTANYPINI" with the correct spelling, PROTANYPODINI (see also Catalogue p. 262). The tribe name CLINOTANYPODINI has been accepted as valid by Sæther & Spies (2011) and replaces *COELOTANYPODINI* (p. 26, p. 27 – Table 2) which is now a junior synonym – see replacement entries under the subfamily Tanypodinae heading and replacement **Note** below.

The data presented below changes the numbers of valid genera and valid species in two and three subfamilies respectively to that given in the Catalogue. In the Tanypodinae the number of valid genera, with the description of *Wuelkerella* Añón Suárez & Sublette, increases from 57 to 58. The generic changes in the number of valid Tanypodinae species are as follows: *Ablabesmyia* Johannsen s. lat. increases from 60 to 63 (one each in *Ablabesmyia* s. str., *Karelia* Roback and Subgenerically unplaced); *Djalmabatista* Fittkau increases from 11 to 12; *Labrundinia* Fittkau decreases from 15 to 14; *Larsia* Fittkau increases from 26 to 28; *Macropelopia* Thienemann increases from 14 to 17; *Monopelopia* Fittkau increases from 8 to 9; *Paramerina* Fittkau increases

from 28 to 33; *Tanypus* Meigen s. lat. increases from 30 to 31 (and *Tanypus* s. str. from 25 to 26); no overall change in *Rheopelopia* Fittkau and one new species in *Wuelkerella*. All these changes combined increases the total number of valid Tanypodinae species from 575 to 592. For the Podonominae, the number of valid genera is reduced from 15 to 14 but the number of valid species in *Parochlus* Enderlein increases by two from 48 to 50 and in the subfamily increases by one from 158 to 159. There is one addition in the Telmatogetoninae resulting in the number of valid species in the genus *Telmatogeton* Schiner and in the subfamily increasing respectively from 28 to 29 and from 39 to 40. In the three subfamilies detailed above, the new ratio of valid genera to species is as follows: Podonominae (**14:159**), Tanypodinae (**58:592**) and Telmatogetoninae (**2:40**). Compared with Part 1 of the Catalogue, the total number of valid genera remains the same at **106** but the number of valid species increases from **1,024** to **1,043**.

SUBFAMILY PODONOMINAE

Genus **PAROCHLUS** ENDERLEIN

ZELANDOCHLUS BRUNDIN, 1966: *Kungliga Svenska VetenskapsAkademiens Handlingar* **11**(1): 106. Type-species: *Zelandochlus latipalpis* Brundin, 1966, by original designation. Synonymized with *Parochlus* Enderlein, 1912, by Cranston, Hardy, Morse, Puslednik & McCluen (2010: *Systematic Entomology* **35**(4): 642).

caroliniae RODRÍGUEZ, PAGGI & MEDINA, 2009: *Zootaxa* **2300**: 40 (*Parochlus*). Type-locality: "ARGENTINA, San Luiz Province, Carolina stream, 66°2'S, 32°50'W". — Distr.: **NT**: Argentina.

latipalpis (BRUNDIN, 1966): *Kungliga Svenska VetenskapsAkademiens Handlingar* **11**(1): 107 (*Zelandochlus*). Type-locality: "Fox River, not far downstream Fox Glacier, Westland, NEW ZEALAND". — Distr.: **AU**: New Zealand (South Island).

SUBFAMILY TANYPODINAE

CLINOTANYPODINI LIPINA, 1928: *Lichinki i kukolki khironomid. Ekologiya i sistematika*: 71 (originally as "Clinotanypini"). Type-genus: *Clinotanypus* Kieffer, 1913. Senior synonym of *Coelotanypodini* Fittkau, 1962 (below). [**Note**]

COELOTANYPODINI FITTKAU, 1962: *Abhandlungen zur Larvalsystematik der Insekten* **6**: 62. Type-genus: *Coelotanypus* Kieffer, 1913. Junior synonym of *Clinotanypodini* Lipina, 1928 (above). [**Note**]

Genus **ABLABESMYIA** JOHANNSEN

Subgenus **ABLABESMYIA** JOHANNSEN

basalis (WALLEY, 1925): *Canadian Entomologist* **57**: 273 (*Tanypus*). Type-locality: {Canada} "Ottawa, Ont." [Ont. = Ontario]. — Distr.: **NE**: Canada (British Columbia, Manitoba, Ontario, Québec), U.S.A. (Alaska, New Jersey, Washington). [**Note**]

monilis (LINNAEUS, 1758): [Remainder of the entry as given in Part 1 of the World Catalogue (Ashe & O'Connor, 2009: 117)]. *trinigrosinosa* CURE, 1972: *Buletinul de Cercetări Piscicole* **31**(3/4): 10 (*Ablabesmyia*; as "l. var." of *monilis* Linnaeus, 1758 [l. var.= larval variety]). Localities: {României} "în lacurile Marica și Victoria" [= in Lakes Marica and Victoria] [României = Romania]. Unavailable name proposed as a "variety" or "form" after 1960 contrary to Article 15.2 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. [**Note**]

phatta (EGGER, 1864): *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien (Abhandlungen)* **13**(3): 1109 (*Tanypus*). Type-locality: "Vaterland: Oesterreich . . . Gmunden" [= Fatherland: Austria . . . Gmunden]. — Distr.: **PA**: Armenia, Austria, Belarus, Belgium, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Kaliningrad, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia (CET, NET, SET, East Siberia, Far East), Slovakia, Spain, Sweden, Switzerland, Turkey. [**Note**]

Subgenus **KARELIA** ROBACK

platensis SIRI & PAGGI, 2010: *Zootaxa* **2386**: 50 (*Ablabesmyia*). Type-locality: "Argentina, Buenos Aires, La Plata, 34° 55' 25.9" S, 57° 55' 36.1" W, 31 m. asl.". — Distr.: **NT**: Argentina.

Subgenerically unplaced in **ABLABESMYIA**

tucuxi NEUBERN & FUSARI in FUSARI, NEUBERN OLIVEIRA, HAMADA & ROQUE, 2012: *Zootaxa* **3239**: 44 (*Ablabesmyia*). Type-locality: "BRAZIL, Roraima, Boa Vista municipality, Cauamé River, . . . 02°52'06"N 60°44'24"W". — Distr.: **NT**: Brazil. [**Note**]

Genus **ALOTANYPUS** ROBACK

vittiger (EDWARDS, 1931): *Diptera of Patagonia and South Chile* **2**(5): 242 (*Anatopynia*). Type-locality: [Argentina] "L. Nahuel Huapi, eastern end". — Distr.: **NT**: Argentina, Chile, Juan Fernandez Islands. [**Note**]

Genus **CLINOTANYPUS** KIEFFERSubgenus **CLINOTANYPUS** KIEFFER

pinguis (LOEW, 1861): [Remainder of the entry as given in Part 1 of the World Catalogue (Ashe & O'Connor, 2009: 138)].

romanica (CURE, 1972): *Buletinul de Cercetări Piscicole* **31**(3/4): 7 (*Coelotanypus*; as “f.l. *romanica*” [f.l. = forma larvalis]). Locality: {România} “în lacul Victoria (jud. Dolj) în zona de aval, la o adâncime de 0,2m, pe un facies argilos-nisipos (nisip grosier)” [= in Lake Victoria (Dolj County) in the downstream area, at a depth of 0.2 metres, on a clay-sand substrate (coarse sand)] [România = Romania]. Unavailable name proposed as a “variety” or “form” after 1960 contrary to Article 15.2 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum.** [Note]

Genus **DEROTANYPUS** ROBACK

sibiricus (KRUGLOVA & CHERNOVSKII, 1940): *Zametki po faune i flore Sibiri. Byulleten fakultety Biologicheskii institut Tomskogo gosudartvennogo universiteta. Tomskoe obshchestva ispytatelei prirody* **2**: 1 (*Anatopynia*). Type-locality: [Russia] **Oz. Universitetskoe rapoleno na pravom beregy r. Tomi** [= University lake on right bank of Tom' River] [Lectotype designated in Sæther, 2004: *Zootaxa* **595**: 30]. — Distr.: **PA**: Austria, ?Bulgaria, Estonia, Germany, Russia (CET, NET, East Siberia, Far East, West Siberia). [Note]

Genus **DJALMABATISTA** FITTKAU

scopulata HAGENLUND, ANDERSEN & MENDES, 2010: *Biota Neotropica* **10**(3): 258 (*Djalmabatista*). Type-locality: “BRAZIL: Mato Grosso State: Nova Xavantina, Fazenda Sr. Queté, Córrego Cachoeira, 14°32.817'S, 52°31.395'W”. — Distr.: **NT**: Brazil.

Genus **GUTTIPELOPIA** FITTKAU

guttipennis (WULP, 1861): *Tijdschrift voor Entomologie* **4**: 16 (*Tanypus*). Type-locality: [Netherlands] “den Haag” [= The Hague] ||►Type-locality: [Netherlands] “Duinen bij den Haag” [= Dunes near The Hague] in Wulp, 1875: *Tijdschrift voor Entomologie* **17**(5): 144 (*Tanypus*)◄|| [Lectotype designated in Bilyj, 1988: *Entomologica Scandinavica* **19**(1): 14]. Senior primary homonym of *Tanypus guttipennis* Wulp, 1875 (below). [Remainder of entry with distribution data as in Part 1 of the World Catalogue (Ashe & O'Connor, 2009: 159)].

guttipennis (WULP, 1875): *Tijdschrift voor Entomologie* **17**(5): 144 (*Tanypus*). Type-locality: [Netherlands] “Duinen bij den Haag” [= Dunes near The Hague]. **Preoccupied.** Junior primary homonym of *Tanypus guttipennis* Wulp, 1861 (above). [Note]

Genus **LABRUNDINIA** FITTKAU

longipalpis (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 66 (*Tanypus*). Type-locality: {Belgique} [p. 18] “Overmeire”. — Distr.: **NT**: Mexico (Michoacán), ?Trinidad; **NE**: Canada (Ontario), Mexico (Coahuila), U.S.A. (California, Florida, Georgia, Kansas, New Mexico, North Carolina, Texas); **PA**: Belgium, Denmark, Finland, Great Britain, Greece, Netherlands, Norway, Romania, Russia (CET), Sicily, Slovakia, Spain, Sweden, Ukraine. [Note]

maculata ROBACK, 1971: *Monographs of the Academy of Natural Sciences of Philadelphia* **17**: 278 (*Labrundinia*). Type-locality: [U.S.A.] “California — Riverside”. [Note]

Genus **LARSIA** FITTKAU

gelhausi NEUBERN & SILVA, 2011: *Zootaxa* **2786**: 30 (*Larsia*). Type-locality: “BRAZIL: São Paulo State, São Carlos, Monjolinho stream”. — Distr.: **NT**: Brazil.

hamadae NEUBERN & SILVA, 2011: *Zootaxa* **2786**: 35 (*Larsia*). Type-locality: “BRAZIL: Amazonas State, Manaus, Igarapé Cabeça Branca”. — Distr.: **NT**: Brazil.

Genus **MACROPELOPIA** THIENEMANN

galbina WANG, CHENG & WANG, 2011: *African Journal of Agricultural Research* **6**(17): 4122 (*Macropelopia*). Type-locality: “CHINA: Yunnan Province, Eryuan City, Meici River”. — Distr.: **OR**: China (Yunnan).

grandivolsella WANG, CHENG & WANG, 2011: *African Journal of Agricultural Research* **6**(17): 4125 (*Macropelopia*). Type-locality: “China: Hubei Province, Hefeng County Watershed”. — Distr.: **OR**: China (Hubei).

rotunda WANG, CHENG & WANG, 2011: *African Journal of Agricultural Research* **6**(17): 4126 (*Macropelopia*). Type-locality: “China: Fujian Province, Nanping City, Mangdang Mountain”. — Distr.: **OR**: China (Fujian).

Genus **MONOPELOPIA** FITTKAU

- MONOPELOPIA** FITTKAU, 1962: *Abhandlungen zur Larvalsystematik der Insekten* **6**: 394. Type-species: *Tanypus tenuicalcar* Kieffer, 1918, by original designation. [Note]
- paranaensis** OLIVEIRA, MENDES & SILVA, 2010: *Zootaxa* **2420**: 54 (*Monopelopia*). Type-locality: "Brazil, Parana State, Piraquara, Mananciais da Serra, 25°29'36.2"S, 48°58'46.2"W". — Distr.: **NT**: Brazil. [Note]
- sp.: BLAKELY, CRANSTON & WINTERBOURN, 2010: *New Zealand Entomologist* **33**: 39 (*Monopelopia*). Locality: "Orikaka Ecological Area (41° 27'S 171° 25'E) Buller District, Westland, New Zealand". — Distr.: **AU**: New Zealand (South Island).

Genus **NATARSIA** FITTKAU

- nugax** (WALKER, 1856): *Insecta Britannica, Diptera* **3**: 186 (*Chironomus*). Type-locality: "(E.) [= England]. — Distr.: **PA**: Austria, Belgium, China (Inner Mongolia), Czech Republic, France, Germany, Great Britain, Hungary, Ireland, Italy, Romania, Russia (CET, Far East, West Siberia), Slovakia; **OR**: China (Fujian, Guizhou), Taiwan. [Note]

Genus **PARAMERINA** FITTKAU

- ampliseta** HAZRA, SAHA, MAZUMDAR & CHAUDHURI, 2012: *Annales de la Société Entomologique de France (Nouvelle série)* **47**(3/4): 332 (*Paramerina*). Type-locality: {India} "Mirik [26°54'0"N 88°10'0"E]". — Distr.: **OR**: India (West Bengal). [Note]
- cingulata** (WALKER, 1856): [Remainder of the entry as given in Part 1 of the World Catalogue (Ashe & O'Connor, 2009: 188)].
pygmaea (WULP, 1875): *Tijdschrift voor Entomologie* **17**(5): 144 (*Tanypus*). Type-locality: [Netherlands] "Driebergsche bosch" [= Driebergse Forest]. [Note]
- clara** HAZRA, SAHA, MAZUMDAR & CHAUDHURI, 2012: *Annales de la Société Entomologique de France (Nouvelle série)* **47**(3/4): 335 (*Paramerina*). Type-locality: {India} "West Bengal: Darjeeling: Happy Valley Tea Estate [27°2' 0"N 88°16'0"E]". — Distr.: **OR**: India (West Bengal). [Note]
- divisa** (WALKER, 1856): *Insecta Britannica, Diptera* **3**: 192 (*Chironomus*). Type-locality: "(E.) [= England]. — Distr.: **PA**: Algeria, Austria, Balearic Islands, Belarus, Belgium, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Kaliningrad, Lebanon, Netherlands, Norway, Poland, Portugal, Russia (CET), Sardinia, Slovakia, Slovenia, Spain, Sweden. [Note]
- okigenga** (SASA, 1990): *Japanese Journal of Experimental Medicine* **60**: 141 (*Monopelopia*). Type-locality: {Okinawa Island, Nansei Islands, southern Japan} "Genga River". — Distr.: **PA**: Japan; **OR**: Japan. [Note]
kurobekogata SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 64 (*Paramerina*). Type-locality: [Japan] "Unazuki Town".
- togavicea** (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 213 (*Krenopelopia*). Type-locality: [Japan] "Toga River". — Distr.: **PA**: Japan. [Note]
- yunouresia** (SASA, 1989): *Research Report from the National Institute for Environmental Studies* **125**: 152 (*Krenopelopia*). Type-locality: {Japan} "on the shore of Lake Yunoko (Tochigi)". — Distr.: **PA**: Japan; **OR**: Japan. [Note]
amaminova (SASA, 1990): *Japanese Journal of Experimental Medicine* **60**: 138 (*Krenopelopia*). Type-locality: [Nansei Islands, southern Japan] "Yakkachi River, Amami" [Amami = Amami Island].
tokararesea SASA & SUZUKI, 1995: *Japanese Journal of Sanitary Zoology* **46**: 285 (*Paramerina*). Type-locality: {Tokara Islands, Japan} "Nakanoshima".

Genus **PROCLADIUS** SKUSESubgenus **PSILOTANYPUS** KIEFFER

- rufovittatus** (WULP, 1875): *Tijdschrift voor Entomologie* **17**(5): 143 (*Tanypus*). Type-locality: [Netherlands] "de voormalige Schielandsche plassen" [= the former Schieland lakes]. — Distr.: **PA**: Austria, Belgium, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Kaliningrad, Netherlands, Poland, Russia (CET, East Siberia.), Slovakia, Spain. [Note]

Nomina dubia probably in PROCLADIUS (PSILOTANYPUS)

- oltetzii* CURE, 1971: *Buletinul de Cercetări Piscicole* **30**(3/4): 10 (*Procladius (Psilotanypus)*); as "1. „oltetzii“" [l. = larva]. Locality: {România} "în râul Olteț, . . . în dreptul localității Sîrbești, ce reprezintă limita din aval a sectorului superior al Oltețului, în depresiunea subcarpatică la altitudinea de 420 m" [= in the River Olteț, . . . near the village of Sîrbești, which represents the upper limit of the downstream section of the Olteț, in the sub-Carpathian basin at an altitude of 420 metres] [România = Romania]. [Note]

Genus **PSECTROTANYPUS** KIEFFER

- varius** (FABRICIUS, 1787): [Remainder of the entry as given in Part 1 of the World Catalogue (Ashe & O'Connor, 2009: 220)].
punctatus (MEIGEN, 1804): *Klassifikation und Beschreibung der europäischen zweiflügligen Insekten* 1: 21
(Tanypus). Type locality: [Title] “europäischen” [= European]. [Note]

Genus **RHEOPELOPIA** FITTKAU

- eximia** (EDWARDS, 1929): *Transactions of the Entomological Society of London* 77: 290 (*Pentaneura*). Type-locality: [Great Britain] “Llangollen”. — Distr.: **PA**: Great Britain, Ireland, Spain. [Note]
- joganflava** (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* 1991: 67 (*Krenopelopia*). Type-locality: {Japan} [Abstract, p. 52] “Joganji River”. — Distr.: **PA**: Japan. [Note]
- toyamazea* (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* 1996 (March): 46 (*Thienemannimyia*). Type-locality: [page 16, Introduction] “Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill . . . Lake A” [= ground pool “A”, page 17].
- ginzanuvea* (SASA & SUZUKI, 2001): *Tropical Medicine* 43(1/2): 24 (*Conchapelopia*). Type-locality: {Japan, Hokkaido} [p. 8] “Ginzan”.

Genus **TANYPUS** MEIGENSubgenus **TANYPUS** MEIGEN

- nakazatoi** KOBAYASHI, 2010: *Zootaxa* 2644: 26 (*Tanypus*). Type-locality: “JAPAN: Ibaraki, Ibaraki University, Center for Water Environmental Studies (CWES), located near Lake Kita-Ura, 35°59'52”N, 140°33'34”E”. — Distr.: **PA**: Japan.

Genus **WUELKERELLA** AÑÓN SUÁREZ & SUBLETTE

- WUELKERELLA** AÑÓN SUÁREZ & SUBLETTE, 2012: *Zootaxa* 3177: 59. Type-species: *Wuelkerella toncekensis* Añón Suárez & Sublette, 2012, by original designation.
- toncekensis** AÑÓN SUÁREZ & SUBLETTE, 2012: *Zootaxa* 3177: 63 (*Wuelkerella*). Type-locality: “ARGENTINA, Río Negro Province, 20 km W of San Carlos de Bariloche city, Lake Tonček (41°11'55”S – 71°29'22”W, 1754 m a.s.l.)”. — Distr.: **NT**: Argentina.

Nomina dubia probably in ZAVRELIMYIA

- pectinatus* KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* 42: 175 (*Tanypus*). Type-locality: [Czech Republic] “Bohême : Königgrätz” [= Bohemia : Hradec Králové]. **Preoccupied**. Junior primary homonym of *Tanypus pectinatus* Kieffer, 1909 – the latter is a valid species of *Procladius* (*Holotanypus*). [Note]

Nomina dubia in TANYPODINAE

- blanchardi* ICHES, 1906: *Boletín de Ministerio de Agricultura y Ganadería, Argentina* 6: 266 (*Ceratopogon*). Type-locality: {Argentina} “en la región de Resistencia y de las colonias Popular y J Penco, que pertenecen á la parte subtropical del Chaco Austral” [= in the Resistencia region and the Popular and Juan Penco colonies, which belong to the subtropical part of Chaco Austral]. [Note]
- elegantulus* WULP, 1875: *Tijdschrift voor Entomologie* 17(5): 144 (*Tanypus*). Type-locality: [Netherlands] “Beek”. [Note]
- hesseana* KIEFFER, 1915: *Brotéria, Série Zoológica* 13: 68 (*Pelopia*). Type-locality: “Frankreich (Grenoble)” [= France, Grenoble]. [Note]
- maculatus* MACQUART, 1826: *Recueil des Travaux de la Société d'Amateurs des Sciences, de l'Agriculture et des Arts de Lille* 1823-1824: 187 (*Tanypus*). Type-locality: [Title] “Nord de la France” [= northern France]. [Note]

SUBFAMILY **DIAMESINAE**

- HARRISONINI*; *HARRISONININI*: incorrect subsequent spellings. [Note]

Genus **DIAMESA** MEIGEN

- DIAMESA** MEIGEN in GISTL, 1835: *Faunus* 2: 66. Type-species: *Diamesa cinerella* Meigen, 1835, by monotypy. Senior homonym of *Diamesa* Waltl, 1837 and *Diamesa* Meigen, 1838. [Note]

Genus **PSEUDODIAMESA** GOETGHEBUER
 Subgenus **PSEUDODIAMESA** GOETGHEBUER

nivosa (GOETGHEBUER, 1928): [Remainder of the entry as given in Part 1 of the World Catalogue (Ashe & O'Connor, 2009: 305)]. [Note]

SUBFAMILY **TELMATOGETONINAE**

Genus **TELMATOGETON** SCHINER

- alaskensis** COQUILLET, 1900: *Proceedings of the Washington Academy of Sciences* **2**: 395 (*Telmatogeton*). Type-locality: [U.S.A.] "Yakutat, Alaska". — Distr.: **NE**: Canada (British Columbia), Mexico (#), U.S.A. (Alaska, California, Oregon, Washington). [Note]
- atlanticus** OLIVEIRA, 1950: *Memórias do Instituto Oswaldo Cruz* **48**: 470 (*Telmatogeton*; as "*atlanticum*"). Type-locality: "Praia do Leste, Ilha Guaíba, Baía de Sepetiba, Oceano Atlantico, Estado do Rio de Janeiro, Brasil". — Distr.: **NT**: Brazil. [Note]
- goughi** SÆTHER & ANDERSEN, 2011: *Zootaxa* **2915**: 4 (*Telmatogeton*). Type-locality: "GOUGH ISLAND: Site TD1 at Tumbledown, 40°20'999"S, 09°53'256"W, boulder beach, 5 m a.s.l.". — Distr.: **AF**: Gough Island, Inaccessible Island, Tristan da Cunha. [Note]
- latipennis** WIRTH, 1949: *University of California Publications in Entomology* **8**: 172 (*Telmatogeton*). Type-locality: {Mexico} "Socorro Island, Braithwaite Bay, Revillagigedo Islands". — Distr.: **NT**: Mexico (Revillagigedo Islands). [Note]
- nanus** OLIVEIRA, 1950: *Memórias do Instituto Oswaldo Cruz* **48**: 472 (*Telmatogeton*; as "*nanum*"). Type-locality: "Praia da Barra, Cidade do Salvador, Estado da Bahia, Brasil". — Distr.: **NT**: Brazil. [Note]
- pusillus** EDWARDS, 1933: *Bernice P. Bishop Museum Bulletin* **114**: 88 (*Telmatogeton*; as "*pusillum*"). Type-locality: {Marquesas} "Eiao: Vaituha". — Distr.: **OC**: French Polynesia (Marquesas); Northern Marianas. [Note]
- trochanteratus** EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 305 (*Telmatogeton*; as "*trochanteratum*"). Type-locality: [Chile] "Ancud". — Distr.: **NT**: Chile; **AU**: New Zealand (South Island). [Note]

Nomina dubia in CHIRONOMIDAE

pubitarsis ZETTERSTEDT, 1838: *Insecta Lapponica* [Heft 3]: 811 (*Chironomus*). Type-localities: [Sweden] "in Lapponia Tornensis . . . in Salice ad Junosuando" [= in Tornio Lapland . . . in *Salix* at Junosuando]; "in ripa fluminis Tornensis ad Wittangi" [= on the bank of the Torne River at Vittangi]. [Note]

NOTES

- alaskensis** COQUILLET, 1900, **TELMATOGETON**: For the purposes of nomenclature, the gender of the genus name *Telmatogeton* is masculine. Consequently, the endings in several species names must be changed from the neuter forms given in Ashe & O'Connor (2009) to the following masculine forms: *T. alaskensis*, *T. atlanticus*, *T. latipennis*, *T. nanus*, *T. pusillus*, *T. trochanteratus*.
- ampliseta** HAZRA, SAHA, MAZUMDAR & CHAUDHURI, 2012, **PARAMERINA**: The square brackets, enclosing part of the type-locality data of *P. ampliseta*, were used in the original description.
- atlanticus** OLIVEIRA, 1950, **TELMATOGETON**: See note on *Telmatogeton alaskensis* Coquillett.
- basalis** (WALLEY, 1925), **ABLABESMYIA** (**ABLABESMYIA**): In Ashe & O'Connor (2009: 118), *A. (A.) basalis* was treated as a junior synonym of *A. (A.) monilis* (Linnaeus). Sæther (2011: 57) based on reared described material has shown that it is a valid species that is distinguishable in the larval, pupal and adult stages.
- blanchardi* ICHES, 1906, **Nomina dubia in TANYPODINAE**: The species *Ceratopogon blanchardi* was transferred from the Ceratopogonidae to the subfamily Tanypodinae by Wirth (1974: 56) but more recently Borkent & Wirth (1997: 138) treated it as an undetermined Chironomidae. The description and figures of *C. blanchardi*, based on the adult female, were examined to determine if the species could be more precisely placed within the Chironomidae. The combination of an 11 segmented antenna, the presence of crossvein MCu and the lack of a costal extension indicate that it is best placed as a nomen dubium in the Tanypodinae. The total body length (only 1.85 mm) and absence of veins R₂, R₃ and R₂₊₃ suggests placement in one of the genera with small sized species.
- clara** HAZRA, SAHA, MAZUMDAR & CHAUDHURI, 2012, **PARAMERINA**: The square brackets, enclosing part of the type-locality data of *P. clara*, were used in the original description.
- CLINOTANYPODINI** LIPINA, 1928; and **COELOTANYPODINI** FITTKAU, 1962: Sæther & Spies (2011) have accepted the senior of these two synonyms as valid. Contrary to an announcement in Spies (2005), referred to in Ashe &

O'Connor (2009), an application for ICZN reversal of priority in this case is no longer intended (M. Spies, pers. comm.). The reasoning is that (A) neither tribe name is used so frequently that reintroducing the senior synonym could cause major disturbance, and (B) an application to validate the junior synonym would not be likely enough to win ICZN approval.

COELOTANYPODINI FITTKAU, 1962: See note above on *Clintanypodini* Lipina, 1928.

DIAMESA MEIGEN, 1835: In Ashe & O'Connor (2009), p. 267, the year "1835" in the sentence "Senior homonym of *Diamesa* Waltl, 1837 and *Diamesa* Meigen, 1835." is corrected to 1838.

divisa (WALKER, 1856), **PARAMERINA**: In Ashe & O'Connor (2009), *P. divisa* was listed as occurring in both the Palearctic and Oriental parts of Japan, based on the data for six names treated as junior synonyms. However, Niitsuma *et al.* (2011) consider all records of *P. divisa* from Japan as misidentifications. This reclassification has been followed above.

elegantulus WULP, 1875, **Nomina dubia in TANYPODINAE**: The date of description of *Tanypus elegantulus* Wulp is affected by a change in date from 1874 to 1875 – see Wulp (1875) in the Bibliography.

eximia (EDWARDS, 1929), **RHEOPELOPIA**: The distribution list must be corrected to include Spain, but exclude Germany. Confusion of these records arose from a specimen label misinterpretation by Fittkau (1962) (M. Spies, pers. comm.).

goughi SÆTHER & ANDERSEN, 2011, **TELMATOGETON**: In Ashe & O'Connor (2009: 334), *T. sanctipauli* Schiner was listed from Gough Island and Tristan da Cunha. Sæther & Andersen (2011) show that all published records of *T. sanctipauli* from these islands are misidentifications and refer instead to the new species *T. goughi*.

guttipennis (WULP, 1875), synonym of **GUTTIPELOPIA guttipennis** (WULP, 1861): The date of description of "*Tanypus guttipennis* Wulp, 1874" is affected by a change in date from 1874 to 1875 – see Wulp (1875) in the Bibliography.

HARRISONIINI, **HARRISONININI**: The following note referred to on p. 262 in Ashe & O'Connor (2009) was inadvertently omitted from that publication's Notes section: For explanation of the correct, valid spelling of the tribe name Harrisonini, see Spies (2005: 7).

hesseana KIEFFER, 1915, **Nomina dubia in TANYPODINAE**: Ashe & O'Connor (2009: 180) listed this as an unquestioned synonym of *Monopelopia tenuicalcar* Kieffer, 1918, without explaining why the junior of the two names should be valid in this case. The problem appears to derive from Fittkau (1962: 398), who had erred in assuming both species names as established in 1918. In the interest of stable nomenclature, *Pelopia hesseana* Kieffer must be treated as a nomen dubium in Tanypodinae at least as long as its taxonomic interpretation is not based on a revision of name-bearing type material.

joganflava (SASA & OKAZAWA, 1991), **RHEOPELOPIA**: Niitsuma & Kato (2009) consider this name as valid – rather than as a junior synonym of *R. ornata* (Meigen) – with the junior synonyms *Thienemannimyia toyamazea* Sasa, 1996 and *Conchapelopia ginzanueva* Sasa & Suzuki, 2001.

latipennis WIRTH, 1949, **TELMATOGETON**: See note on *Telmatogeton alaskensis* Coquillett.

longipalpis (GOETGHEBUER, 1921), **LABRUNDINIA**: The record from Trinidad in the Neotropical Region is now regarded as doubtful (Silva *et al.* 2011) and is preceded by a ? (in bold). The "Laguna Alberga" location in Mexico (Silva *et al.* 2011: 295) is apparently the result of an error in labeling of the original Brundin specimens. The "Laguna Alberga" has been identified as the Lago La Alberca (Long. 19°48'28.54"N; Lat. 101°26'57.07"W), a small volcanic crater mountain lake in Michoacán state. Based on the definition of the boundaries used in the Catalogue, this state is in the Neotropical part of Mexico.

maculata ROBACK, 1971, synonym of **LABRUNDINIA longipalpis** (GOETGHEBUER, 1921): *Labrundinia maculata* Roback has been shown to be a junior synonym of *L. longipalpis* (Silva *et al.* 2011) and the distribution data of the latter is updated.

maculatus MACQUART, 1826, **Nomina dubia in TANYPODINAE**: The statement in the original publication concerning possible synonymy with *Tanypus nebulosus* Meigen, 1804 (now *Macropelopia nebulosa*) did not keep Macquart (1826) from proposing the new name, and the synonymization proposed in Ashe & O'Connor (2009: 174) is not justified. Instead, *Tanypus maculatus* Macquart, 1826 is returned as a nomen dubium in Tanypodinae.

MONOPELOPIA FITTKAU: The genus name **MONOPELOPIA** was incorrectly spelt as "**MONOPELPIA**" in three places in Ashe & O'Connor (2009), twice on page 179 and once on page 433.

nanus OLIVEIRA, 1950, **TELMATOGETON**: See note on *Telmatogeton alaskensis* Coquillett.

nivosa (GOETGHEBUER, 1928), **PSEUDODIAMESA (PSEUDODIAMESA)**: See note on *pubitarsis* Zetterstedt, 1838.

nugax (WALKER, 1856), **NATARSIA**: Slovakia must be added to the distribution list; see Ashe & O'Connor (2009: 183) under "*subtenuis* (KIEFFER, 1919)".

- okigenga** (SASA, 1990), **PARAMERINA**: In Niitsuma *et al.* (2011) *P. okigenga* was treated as a valid species and removed from synonymy with *P. divisa* (Walker).
- oltetzii** CURE, 1971, **Nomina dubia in PROCLADIUS (PSILOTANYPUS)**: The species was described based on the larval stage only. Until its status can be resolved from associated adults and pupal exuviae, it is treated as a nomen dubium in *Procladius* (*Psilotanypus*). The species was omitted from the Palaearctic Catalogue (Ashe & Cranston, 1990) and from Part 1 of the World Catalogue (Ashe & O'Connor, 2009).
- paranaensis** OLIVEIRA, MENDES & SILVA, 2010, **MONOPELOPIA**: In the original spelling of the species epithet, "*paranaense*", the ending is of neuter gender, thus does not match the feminine gender of the genus name *Monopelopia* as the ICZN Code requires. Therefore, the epithet had to be corrected to *paranaensis* here.
- pectinatus** KIEFFER, 1923, **Nomina dubia probably in ZAVRELIMYIA**: *Tanypus pectinatus* Kieffer, 1923 is a junior primary homonym of *Tanypus pectinatus* Kieffer, 1909 that is permanently invalid, even though the latter has been transferred to *Procladius*. The previous entry in Ashe & O'Connor (2009: 247) is updated.
- phatta** (EGGER, 1864), **ABLABESMYIA (ABLABESMYIA)**: The year of publication was erroneously given as "1863" on p. 119 of Ashe & O'Connor (2009), whereas the correct figure appeared in the bibliography (p. 377).
- pubitarsis** ZETTERSTEDT, 1838, **Nomina dubia in CHIRONOMIDAE**: In Part 1 of the Catalogue (Ashe & O'Connor, 2009: 305), *Chironomus pubitarsis* was treated as a questionable synonym of *Pseudodiamesa* (*Pseudodiamesa*) *nivosa* (Goetghebuer). However, according to observations on probable type specimens reported in Pagast (1947: 452-454), misidentifications of *C. pubitarsis* by subsequent authors can be conspecific with *P. (P.) nivosa*, but *C. pubitarsis* Zetterstedt itself is not; i.e. the two names are not synonymous. Instead, *C. pubitarsis* is treated as a nomen dubium in Chironomidae until name-bearing type material has been revised – the entire entry will be included in Part 3 of the Catalogue.
- punctatus** (MEIGEN, 1804), synonym of **PSECTROTANYPUS varius** (FABRICIUS, 1787): The name *Tanypus punctatus* Meigen was omitted from Part 1 of the World Catalogue (Ashe & O'Connor, 2009). It was synonymised with *Tanypus varius* (Fabricius) by Meigen (1818: 56). See also Spies & Sæther (2004: 14).
- pusillus** EDWARDS, 1933, **TELMATOGETON**: See note on *Telmatogeton alaskensis* Coquillett.
- pygmaea** (WULP, 1875), synonym of **PARAMERINA cingulata** (WALKER, 1856): The date of description of *P. pygmaea* is affected by a change in date from 1874 to 1875 – see Wulp (1875) in the Bibliography.
- romanica** CURE, 1972, synonym of **CLINOTANYPUS (CLINOTANYPUS) pinguis** (LOEW, 1861): The taxon named "*Clinotanypus* f. l. *romanica*" was described as a larva only. The name was omitted from the Palaearctic Catalogue (Ashe & Cranston, 1990) and from Part 1 of the World Catalogue (Ashe & O'Connor, 2009). According to Botnariuc & Cure (1999: 49), it denotes the species for which the valid name is *C. pinguis* (Loew).
- rufovittatus** (WULP, 1875), **PROCLADIUS (PSILOTANYPUS)**: The date of description of *Tanypus rufovittatus* Wulp is affected by a change in date from 1874 to 1875 – see Wulp (1875) in the Bibliography.
- sibiricus** (KRUGLOVA & CHERNOVSKII, 1940), **DEROTANYPUS**: The English-language rendering of the type-locality data must be corrected to [= University lake on right bank of Tom' River]. In Sæther (2004: 30), the transliteration of the original Russian locality and its translation are incorrect and the quoted text from Sæther (op. cit.) in the Catalogue (Ashe & O'Connor 2009: 154) is deleted - the correct transliteration and translation is in the type-locality data.
- togavicea** (SASA & OKAZAWA, 1992), **PARAMERINA**: In Niitsuma *et al.* (2011), *P. togavicea* was treated as a valid species and removed from synonymy with *P. divisa* (Walker).
- trinigrospinosa** CURE, 1972, synonym of **ABLABESMYIA (ABLABESMYIA) monilis** (LINNAEUS, 1758): The name *Ablabesmyia trinigrospinosa* was omitted from the Palaearctic Catalogue (Ashe & Cranston, 1990) and from Part 1 of the World Catalogue (Ashe & O'Connor, 2009).
- trochanteratus** EDWARDS, 1931, **TELMATOGETON**: This Chilean species was recently reported as a marine invader to shorelines of the South Island of New Zealand (Leader, 2010) and was likely transported there by trade on ships' hulls. See note on *Telmatogeton alaskensis* Coquillett.
- tucuxi** NEUBERN & FUSARI, 2012, **Subgenerically unplaced in ABLABESMYIA**: Due to the presence of additional adaptive characters in the larval stage for feeding in sponges, the species has not been assigned to any of the three recognised subgenera (Caroline Neubern de Oliveira pers. comm. to P. Ashe) and it is subgenerically unplaced.
- vittiger** (EDWARDS, 1931), **ALOTANYPUS**: In Ashe & O'Connor (2009: 250), *Anatopynia vittigera* Edwards was listed as a generically unplaced valid species of Macropelopiini. Recently, Siri *et al.* (2011) have transferred the species to the genus *Alotanypus*, based on associated adults, pupal exuviae and larvae collected from localities in

Argentina. In combination with *Alotanypus*, the ending of the species epithet has to be changed to masculine gender.

yunouresia (SASA, 1989), **PARAMERINA**: In Niitsuma et al. (2011), *P. yunouresia* was treated as a valid species and removed from synonymy with *P. divisa* (Walker).

ACKNOWLEDGMENTS

We greatly appreciate the assistance of Martin Spies, Zoologische Staatssammlung, Munich, Germany, in preparing this paper.

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[No symbol = The actual day/month/year, e.g. **[19 March 1975]**, is given if specified in the original publication and not disproven by external evidence; * = Receipt date in the Natural History Museum Library, London;

+ = The last day of the year, e.g. **[+31 December 1900]**, or the last day of the month, e.g. **[+30 June 1962]**, is taken as the date of publication if a more precise date than the year, or the month and year, cannot, (a) be determined from the original work, or (b) be taken from other sources.]

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Wulp FM van der. 1875 [≤30 July 1875]. *Dipterologische aanteekeningen* No. 4. *Tijdschrift voor Entomologie* 17(5): 113-148. [Part] [This second part of the paper (pages 113-148, including chironomid names) was published on or before the 30th July 1875 (Barendrecht & Kruseman, 1957).]

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