

Additions and corrections to the first printing of

Andersen, T., Cranston, P.S. & Epler, J.H. (sci. eds). 2013.
The larvae of Chironomidae (Diptera) of the Holarctic Region — Keys and diagnoses.
Insect Systematics & Evolution Supplement 66; 571 p.

(Last updated 07 December 2013)

- A general issue:* The index in the original edition of the manual (Wiederholm 1983) includes page numbers for occurrences of taxon names in the keys, and that is very helpful. The new manual's index is lacking all (or at least many) such key page numbers.
- p. 3** Table of "Contents", first line should read ... Holarctic Chironomidae ...
- p. 20** In Fig. 2.2C, at bottom right, the label "seta interna" is missing from the lower end of the line that points out the structure
- p. 40, 50, 559** The tribe name Coelotanypodini is invalid as a junior synonym; the valid name is Clinotanypodini
- p. 41, 569** Couplet 4, line 4, tribe name should read Tanypodini (see, e.g., Spies 2005 in Zootaxa 894)
- p. 43** A remark should be inserted above the "*Alotanypus* Roback" heading to alert to, and explain, the unusual and non-intuitive sequence of genus diagnoses in this chapter, in which the genera of all tanypod tribes except one are mixed in a first alphabetical sequence, whereas the genera in the remaining tribe (the only one that is given its own heading; see p. 61) are split in two separate alphabetical genus sequences
- p. 43** First reference under "*Alotanypus*" heading should read Roback, 1971:95
- p. 43** Reference title "Roback 1978" should read 1978a.
- p. 45** Reference title "Roback 1978" should read 1978a.
- p. 47** Reference title "Roback 1978" should read 1978a.
- p. 50** Reference title "Roback 1978" should read 1978a.
- p. 51** Reference title "Roback 1978" should read 1978a.
- p. 53** Reference title "Roback 1978" should read 1978a.
- p. 57** Reference title "Roback 1978" should read 1978a.
- p. 59** First reference under "*Tanypus*" heading should read Meigen, 1803:261
- p. 61** Left column, top heading should read Tribe Pentaneurini
- p. 67** Second reference under "*Larsia*" heading should read Beck & Beck 1966;
- p. 72** Third reference under "*Pentaneura*" heading should read Roback 1971

- p. 74** End of first reference under "Telopelopia" heading should read 1971:255
- p. 81** First reference under "Conchapelopia" heading should read Fittkau, 1957:317
- p. 88** Fittkau, E. J. 1968. Eine neue Tanypodinae-Gattung, *Djalmabatista* (Chironomidae, Dipt.), aus dem brasilianischen Amazonasgebiet. — Amazoniana 1:327–349.
- p. 88** Fittkau, E. J. & Murray, D. 1988. *Bethbilbeckia floridensis*: a new genus and species of Macropelopiini from the South Eastern Nearctic (Diptera: Chironomidae). — Spixiana Supplement 14:253–259.
- p. 90** Additional reference title: Roback, S. S. 1974. The immature stages of the genus *Coelotanypus* (Chironomidae: Tanypodinae: Coelotanypodini) in North America. — Proceedings of the Academy of Natural Sciences of Philadelphia 126:9–19.
- p. 90** Reference title "Roback, S. S. 1978" should read 1978a.
- p. 90** Additional reference title: Roback, S. S. 1978b. New name for *Brundinia* Roback nec *Brundinia* Tottenham. — Entomological News 89:141.
- p. 129** All subfigures need to be labeled with capital letters A–E, as in the caption
- p. 131** Subfigure labels C and D need to be switched
- p. 189** Abstract, line 10 from bottom, last word should read *Corynoneurella*
- p. 192** The upper alternative of couplet 21 is lacking the terminal lead "22"
- p. 212** The penultimate sentence under "Body" should read serrate, sometimes dark brown and may be up to 1/2 length of
- p. 387** Abstract: delete the copyright symbol in *Corynocera*
- p. 387** Abstract, line 3 from bottom, *Carbochironomus*: second author's name should read Kirschbaum
- p. 389** In couplet 5, after "hump on body segment", there is an extra line " 11" that does not belong there
- p. 389, 394, 403-404** The larva of *Mongolchironomus* is reported as unknown, but strong similarities in morphology of the adults and in characteristics of the collecting localities suggest that *Cryptotendipes acalcar* Reiss, 1990, the larva of which has been described, is congeneric with *Mongolchironomus* (or consubgeneric, if the latter is treated as a subgenus in *Cryptotendipes*), quite possibly even conspecific with one of Sasa's species (described in the adult stage only). The new Chironominae chapter makes no mention of *C. acalcar* or its description (Reiss, F. 1990b. *Cryptotendipes acalcar*, spec. nov., ein aberranter Gattungsvertreter aus palaearktischen Salzwässern (Chironomidae, Diptera). – Spixiana 13: 209–215.), and the key and the diagnosis for *Cryptotendipes* reflect only insufficiently that and how *C. acalcar* differs considerably from 'regular' *Cryptotendipes*.
- p. 392** Couplet 42, line 4, figure reference should read 10.27A
- p. 394** Couplet 71, line 2 should end with);

- p. 395** A (foot)note should be added to explain that – in contrast to what readers are used to from many other works – the genus diagnoses under the "Tribe Chironomini" heading include those for two genera of the "putative" tribe Pseudochironomini
- p. 396** End of first reference under "Axarus" heading should read 1980:32
- p. 400** Seventh reference under "Chironomus" heading should end with Kieffer, 1924.
- p. 402** In the key to "Species groups of *Cladopelma*" (and wherever else necessary), the species names used in the group names by Lenz cannot be used as valid anymore, thus should be replaced by their current equivalents; consequently, the '*laccophilum* (not "*laccophila*") group' should be called *viridulum* group, and the '*laterale* (not "*lateralis*") group' should be called *goetghebueri* group; see, e.g., p. 77–78 in Moller Pillot, H.K.M. (2009), Chironomidae larvae II. KNNV Publishing, Zeist (NL)
- p. 403** The nomenclatural authors of *Cryptotendipes* are Beck & Beck (Lenz had created a nomen nudum only); thus, the genus section should begin as follows:
***Cryptotendipes* Beck & Beck**
 Fig. 10.11.
Cryptotendipes Beck & Beck, 1969: 294 — not Lenz, 1941a: 34
- p. 418-419** Under *Kribiodorum*, in the "Comments" and "Ecology and distribution" sections, "*perpulchra*" should read *perpulchrum*", and "*pulchra*" should read *pulchrum*
- p. 425** Under *Omisus*, in the "Ecology and distribution" section, the text "and one f the Palaearctic" should read and one from the Palaearctic
- p. 426** The diagnosis statement "Pecten epipharyngis a wide plate with several transparent teeth" does not apply to all *Parachironomus* species; e.g., see p. 394, couplet 71, *P. alatus*
- p. 432** Left column, first paragraph under "Ecology and distribution": *vanderplanki* is misspelled
- p. 434** End of reference under "Sergentia" heading should read 1922:288
- p. 440** Under *Zavreliella*, the last line in the "Labro-epipharyngeal region" section should read Premandible with 3 teeth, with brush
 and the first line of the "Mandible" section should read Dorsal tooth absent, apical tooth slender, with 2 distinct inner teeth.
- p. 444, 460** The name Gilka was misspelled (with a regular l instead of the Polish letter ł); this was done twice in the first paragraph of the right-hand column on p. 444, and three times in the three Gilka entries on p. 460 (bottom of left column)
- p. 448** End of reference under "Neozavrelia" heading should read 1941:106
- p. 452** In the "Comments" for *Stempellina*, "Althoug" should read Although
- p. 454** First reference under the "*Tanytarsus*" heading should end with 1874:LXX

- p. 456** In the "Yuasaiella Tokunaga" heading, the 2nd word should not be in boldface
- p. 457** Second reference under the "Tanytarsini Genus A" heading should read Pinder & Reiss, 1983
- p. 458–465** In the "References" section, the theoretically alphabetical sequence of entries is disrupted in various ways and in many cases, at least once on almost every page; a general inconsistency is that titles by Sæther are listed with the "æ" treated as equivalent to 'ae', but the same is not applied to the "ä" in Säwedal; moreover, taxon names in the reference titles are not consistently set in italics.
- p. 458** References, second entry, first author's name should read Amakye
- p. 458** The following reference title must be added:
Beck, E. C. & Beck, W. M., Jr. 1969. Chironomidae (Diptera) of Florida III. The *Harnischia* complex (Chironominae). — Bulletin of the Florida State Museum 13: 277–313.
- p. 463** In "Sæther, O. A. 2011", the page range should read 39–52
- p. 464** In da Silva et al. 2010, the third author's name should read Oliveira
- p. 465** The following reference title must be added:
Wulp, F. M. van der. 1874. [... over het geslacht *Chironomus* Meig.] — Tijdschrift voor Entomologie 16:LXIX–LXXI.
- p. 501** In the legend for the *Kribiodorum* figure, "*perpulchra*" should read *perpulchrum*
- p. 527** The figure legend should read
... A, B. Mandible. — C, D. Antenna. — E. Labrum and epipharynx. — F. Dorsal head sclerites. B, D, F. *Stictochironomus* sp.
- p. 529** Subfigure "G" should be relabeled E
- p. 562** For the species name *heliomesonyctios*, the nomenclatural author is Langton, and the page numbers should read 446, 454

The index entries after "*Ablabesmyia* 62" and before "*Oliveiriella (Cricotopus)* Wiedenbrug & Fittkau 212, 213" are missing; they should read:

<i>nigrohalteralis</i> Malloch (<i>Paralauterborniella</i>)	428, 513
<i>nigropunctata</i> (Staeger) (<i>Krenopelopia</i>)	66
<i>Nilodosis</i> Kieffer (Chironominae)	410
<i>Nilotanypus</i> Kieffer (Tanypodinae)	69, 73, 92, 119
<i>Nilothauma</i> Kieffer (Chironominae)	423, 507
<i>Nimbocera</i> Reiss (<i>Tanytarsus</i>)	454
<i>Ninelia</i> Makarchenko & Makarchenko (Ortho- cladiinae)	237
<i>nitidellus</i> (Malloch) (<i>Acricotopus</i>)	201
<i>nivalis</i> (Goetghebuer) (<i>Paratrachocladus</i>)	350
<i>nivoriundus</i> (Johannsen) (<i>Hydrobaenus</i>)	325
<i>noctivaga</i> (Kieffer) (<i>Chironomus (Baeotendipes)</i>)	473
<i>norena</i> (Roback) (<i>Thienemannimyia</i>)	135
<i>nostocicola</i> Wirth (<i>Cricotopus (Nostococladus)</i>)	306
<i>Nostococladus</i> Ashe & Murray (<i>Cricotopus</i>)	212, 213
<i>nostococola</i> Wirth (<i>Cricotopus (Nostococladus)</i>)	307
<i>notata</i> group (<i>Ablabesmyia</i>)	55, 62
<i>notata</i> group (<i>Macropelopia</i>)	53
<i>notatus</i> (Meigen) (<i>Dicrotendipes</i>)	406, 481, 482
<i>nozakii</i> Kobayashi (<i>Eurycnemus</i>)	220
<i>nubeculosum</i> (Meigen) (<i>Polypedilum</i> (s. str.))	431, 516
* <i>nubifer</i> Coquillett (<i>Tanypus</i>)	60
<i>nubifer</i> Skuse (<i>Polypedilum (Tripedilum)</i>)	430, 519
<i>nubila</i> (Meigen) (<i>Zavrelimyia</i>)	78
* <i>nubila</i> group Fittkau (<i>Zavrelimyia</i>)	78
<i>nudalus</i> Sæther (<i>Heterotanytarsus</i>)	226, 323
<i>nudisquama</i> Edwards (<i>Paratendipes</i>)	514
<i>nugax</i> (Walker) (<i>Natarsia</i>)	55

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<i>obediens</i> group (<i>Phaenopsectra</i>)	430
<i>obnixus</i> group (<i>Cricotopus</i>)	214
<i>obrepta</i> (Townes) (<i>Demeijerea</i>)	405
<i>obscura</i> Fittkau (<i>Manoa</i>)	504
<i>ocellata</i> Hashimoto (<i>Einfeldia</i>)	401, 407
<i>oconeensis</i> Sæther (<i>Compteromesa</i>)	180
<i>octomaculatus</i> Wülker (<i>Psectrocladius</i> (s. str.))	252
<i>Odontomesa</i> Pagast (Prodiamesinae)	181, 186
<i>ogasaduodecimus</i> Sasa & Suzuki (<i>Paratrisso- cladius</i>)	247
<i>ogemawi</i> Roback (<i>Trissopelopia</i>)	76, 125
<i>okadai</i> (<i>Neozavrelia</i>)	449
<i>okimaculata</i> Sasa (Paramerina)	71
<i>okinawanus</i> Kobayashi & Kuranishi (<i>Para- boreochlus</i>)	31
<i>okoboji</i> (Walley) (<i>Telopelopia</i>)	75, 124
<i>oksanae</i> Makarchenko & Makarchenko (<i>Aagaardia</i>)	199
<i>Olecryptotendipes</i> Zorina (Chironominae)	424, 508
<i>olivacea</i> (Meigen) (<i>Prodiamesa</i>)	182, 187
<i>oliveirai</i> (<i>Alotanypus</i>)	44
<i>oliveirai</i> Oliveira & Fonseca-Gessner (<i>Ablabesmyia</i>)	62

p. 566 "*perpulchra*" should read *perpulchrum*

p. 567 An index entry "Pseudochironomini" 391 should be added, as couplets 34 and 35 of the Chironominae key are the only place in the manual where readers can see quickly which of the genera treated in the chapter correspond to "Pseudochironomini"

p. 567 Under "**P**", the last nine lines are missing; they should read:

<i>pulchra</i> (Johannsen) (<i>Djalmabatista</i>)	52, 102
<i>pulchrum</i> Kieffer (<i>Kribiodorum</i>)	419
<i>pulsus</i> (Walker) (<i>Dicrotendipes</i>)	406, 481-483
<i>pumilio</i> (Holmgren) (<i>Limnophyes</i>)	329
<i>punctata</i> (Fabricius) (<i>Natarsia</i>)	55, 105
<i>punctipennis</i> Meigen (<i>Tanypus</i>)	60, 110, 111
<i>punctipes</i> (Wiedemann) (<i>Phaenopsectra</i>)	408
<i>punctipes</i> group (<i>Phaenopsectra</i>)	430
<i>pungens</i> (Townes) (<i>Kiefferulus</i>)	417

p. 570 In the second entry under "**V**", *vanderplanki* is misspelled