

## Nomenclature notes on some orthoclads (Diptera: Chironomidae)

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### Abstract

New nomenclatorial acts are proposed for chironomids in anticipation of publication on the Fauna Europaea, a database of the scientific names and distribution of all living multicellular European land and fresh-water animals.

*Thienemanniella caspersi* Sæther is proposed as a new replacement name for *Th. similis* Caspers & Reiss, 1989.

Five new generic combinations are given: *Dactylocladius albipennis* Goetghebuer, 1921, *Orthocladius (Dactylocladius) brevifurcatus* Edwards, 1926, and *Lindebergia bothnica* Tuiskunen, 1984 are transferred to *Pseudosmittia* Goetghebuer; while *Smittia lacunarum* Goetghebuer, 1931 and *Smittia (Pseudosmittia) terrestris* Goetghebuer, 1943 are both transferred to *Bryophaenocladus* Thienemann.

Twenty-two new synonyms are given: *Pseudosmittia amamibifurca* Sasa, 1990 is a junior synonym of *Pseudosmittia mathildae* Albu, 1968; *Pseudosmittia antillaria* Sæther, 1981 of *Pseudosmittia forcipata* (Goetghebuer, 1921); *Pseudosmittia arenaria flava* Strenzke, 1960 of *Pseudosmittia arenaria* Strenzke, 1960; *Smittia avicularia* Goetghebuer, 1950 of *Pseudosmittia trilobata* (Edwards, 1929); *Smittia brachyptera* Goetghebuer, 1934 of *Pseudosmittia conjuncta* (Edwards, 1929); *Pseudosmittia brevitarsis* Brundin, 1947, *Pseudosmittia kurobaokasia* Sasa & Okazawa, 1992, *Smittia oxoniana* Edwards, 1937 not Edwards, 1922, and *Pseudosmittia schachti* Caspers & Reiss, 1989 of *Pseudosmittia ruttneri* Strenzke & Thienemann, 1942; *Spaniotoma (Smittia) curticosta* Edwards, 1929 of *Pseudosmittia albipennis* (Goetghebuer, 1921); *Smittia hamata* Freeman, 1956 of *Pseudosmittia danconai* (Marcuzzi, 1947); *Pseudosmittia linguata* Caspers & Reiss, 1989 of *Pseudosmittia nishiharaensis* Sasa & Hasegawa, 1988; *Smittia longitibia* Goetghebuer, 1933 and *Pseudosmittia mediocarinata* Caspers & Reiss, 1989 of *Pseudosmittia nanseni* (Kieffer, 1926); *Spaniotoma (Smittia) recta* Edwards, 1929 and *Pseudosmittia togarisea* Sasa & Okazawa, 1992 of *Pseudosmittia oxoniana* (Edwards, 1922); *Spaniotoma (Smittia) scotica* Edwards, 1929, *Pseudosmittia togasitea* Sasa & Okazawa, 1992, and *Pseudosmittia togativea* Sasa & Okazawa, 1992 of *Camptocladus stercorarius* (De Geer, 1776); *Smittia (Orthosmittia) subrecta* Goetghebuer, 1943 of *Parakiefferiella coronata* (Edwards, 1929); *Pseudosmittia togadistalis* Sasa, Watanabe & Arakawa, 1992 of *Pseudosmittia gracilis* (Goetghebuer, 1913); *Smittia triappendiculata* Goetghebuer 1931 of *Pseudosmittia forcipata* (Goetghebuer, 1921).

*Pseudosmittia triplex* Strenzke, 1950 is a valid species and not a synonym of *P. forcipata* (Goetghebuer, 1921) as stated in Ashe & Cranston (1990).

*Pseudosmittia virgo montana* Strenzke, 1950 is raised to species level as *Pseudosmittia montana*.

The following names are *nomina dubia*: *Camptocladus flaviventris* Kieffer, 1921, *Camptocladus hexalobus* Kieffer, 1924, *Camptocladus longicrus* Kieffer, 1921, *Pseudosmittia restricta* Brundin, 1956, *Smittia (Pseudosmittia) tenebrosa* Goetghebuer, 1943, *Camptocladus trifolius* Kieffer, 1924, *Smittia (Pseudosmittia) vicana* Goetghebuer, 1943.

**Key words:** Nomenclatorial changes, Orthoclaadiinae, Chironomidae, *Thienemanniella*, *Pseudosmittia*

## Introduction

Recently one of us (OAS) was requested to summarise the chironomids in the Fauna Europaea project, a database that will include all terrestrial and aquatic animals of Europe with their distribution in respective countries. Further information is obtainable at <http://www.faunaeur.org>. The database will eventually result in a variety of publications for the different groups, but new synonyms and combinations known to us should not be introduced in the database, and we believe it is not desirable to use knowingly wrong names and combinations in the database. We thus find it necessary to publish a list of some of the changes to the nomenclature of the European species, particularly with regard to the genus *Pseudosmittia* Edwards that we presently are revising. The changes also were proposed in the chironomid newsletter (Sæther, 2002; Sæther & Ferrington, 2002), but that publication only exists in electronic form without meeting the requirements for nomenclatorial availability as stated in ICZN Article. 8.6.

New name for *Thienemanniella similis* Caspers & Reiss, 1989 not Malloch 1915.

Caspers & Reiss (1989) described a new species, *Thienemanniella similis*, from Turkey. That name is preoccupied by *Thienemanniella similis* (Malloch) originally described as *Corynoneura similis* (Malloch 1915: 413). Hestenes & Sæther (2000: 113) redescribed the species.

*Thienemanniella caspersi* Sæther is hereby proposed as a replacement name.

## New combinations and synonyms in European *Pseudosmittia* Goetghebuer and related genera

While one of us (OAS) was on sabbatical with the other at the University of Kansas, a revision of the genus *Pseudosmittia* Goetghebuer was begun and a preliminary manuscript describing and re-describing nearly 100 species assignable to the genus was completed. Due to various circumstances, including a change of venue for one of us (LCF) from

Lawrence, Kansas, to the University of Minnesota in St. Paul, Minnesota, publication has been delayed. The Fauna Europaea project makes it desirable to publish a list of the changes to the nomenclature of the European species belonging to *Pseudosmittia* and related genera. We have examined the type material in most relevant museums, but a few remain to be investigated. Here we list only new combinations, new synonyms, new *nomen dubia* or other changes relative to the catalogue by Ashe & Cranston (1990).

The following abbreviations for collections are used:

BMNH: The Natural History Museum (British Museum, Natural History), London, England

IRSN: Institute Royal de Science Naturelles de Belgique, Bruxelles, Belgium.

NMS: Natur-Museum Senckenberg, Frankfurt Am Main, Germany.

NSMT: National Science Museum, Shinjuku Branch, Tokyo, Japan.

ZMB: Museum of Zoology, University of Bergen, Norway.

ZMH: Zoological Museum, University of Helsinki, Finland.

ZMO: Zoological Museum, University of Oslo, Norway.

ZSM: Zoologisches Staatssammlung, Munich, Germany.

### New generic combinations

*Dactylocladius albipennis* Goetghebuer, 1921: 85 (= *Pseudosmittia albipennis* (Goetghebuer), **comb. n.**). Holotype male in IRSN.

*Orthocladus* (*Dactylocladius*) *brevifurcatus* Edwards, 1926: 781 (= *Pseudosmittia brevifurcata* (Edwards), **comb. n.**). Types in BMNH.

*Lindebergia bothnica* Tuiskunen, 1984: 121 (= *Pseudosmittia bothnica* (Tuiskunen), **comb. n.**). Holotype male in ZMH.

*Smittia lacunarum* Goetghebuer, 1931: 217 (= *Bryophaenocladus lacunarum* (Goetghebuer), **comb. n.**). Holotype male in IRSN.

*Smittia* (*Pseudosmittia*) *terrestris* Goetghebuer, 1943: 109 (= *Bryophaenocladus terrestris* (Goetghebuer), **comb. n.**). Holotype female in IRSN.

### New synonyms

*Pseudosmittia amamibifurca* Sasa, 1990: 132 (= *Pseudosmittia mathildae* Albu, 1968, **syn. n.**). Holotype male in NSMT.

*Pseudosmittia antillaria* Sæther, 1981: 29 (= *Pseudosmittia forcipata* (Goetghebuer, 1921), **syn. n.**). Holotype male in ZMB.

*Pseudosmittia arenaria flava* Strenzke, 1960: 419 (= *Pseudosmittia arenaria* Strenzke, 1960, **syn. n.**). Holotype female in NMS.

- Smittia avicularia* Goetghebuer, 1950: 13 (= *Pseudosmittia trilobata* (Edwards, 1929), **syn. n.**). Holotype male in IRSN.
- Smittia brachyptera* Goetghebuer, 1934: 389 (= *Pseudosmittia conjuncta* (Edwards, 1929), **syn. n.**). Holotype male in IRSN.
- Pseudosmittia brevitarsis* Brundin, 1947: 40 (= *Pseudosmittia ruttneri* Strenzke & Thienemann, 1942, **syn. n.**). The type could not be located.
- Spaniotoma (Smittia) curtica* Edwards, 1929: 364 (= *Pseudosmittia albipennis* (Goetghebuer, 1921), **syn. n.**). Holotype male in BMNH.
- Smittia hamata* Freeman, 1956: 355 (= *Pseudosmittia danconai* (Marcuzzi, 1947), **syn. n.**). Holotype male in NMS. Paratypes in BMNH also examined.
- Pseudosmittia linguata* Caspers & Reiss, 1989: 128 (= *Pseudosmittia nishiharaensis* Sasa & Hasegawa, 1988, **syn. n.**). Holotype male in ZSM.
- Pseudosmittia kurobaokasia* Sasa & Okazawa 1992a: 57 (= *Pseudosmittia ruttneri* Strenzke & Thienemann, 1942, **syn. n.**). Holotype male in NSMT.
- Smittia longitibia* Goetghebuer, 1933: 29 (= *Pseudosmittia nanseni* (Kieffer, 1926), **syn. n.**). Holotype male in ZMO.
- Pseudosmittia mediocarinata* Caspers & Reiss, 1989: 132 (= *Pseudosmittia nanseni* (Kieffer, 1926), **syn. n.**). Holotype male in ZSM.
- Smittia oxoniana* Edwards, 1937: 146, not Edwards, 1922: 204 (= *Pseudosmittia ruttneri* Strenzke & Thienemann, 1942, **syn. n.**). Two males, 1 female, det. F. Edwards (NMS).
- Spaniotoma (Smittia) recta* Edwards, 1929: 362 (= *Pseudosmittia oxoniana* (Edwards, 1922, **syn. n.**). Holotype male in BMNH.
- Pseudosmittia schachtii* Caspers & Reiss, 1989: 130 (= *Pseudosmittia ruttneri* Strenzke & Thienemann, 1942, **syn. n.**). Holotype male in ZSM. Paratype male misidentified *P. oxoniana* (Edwards).
- Spaniotoma (Smittia) scotica* Edwards, 1929: 363 (= *Camptocladus stercorarius* (De Geer, 1776), **syn. n.**). Holotype female in BMNH.
- Smittia (Orthosmittia) subrecta* Goetghebuer, 1943: 112 (= *Parakiefferiella coronata* (Edwards, 1929), **syn. n.**). Types in IRSN.
- Pseudosmittia togadistalis* Sasa, Watanabe & Arakawa, 1992: 233 (= *Pseudosmittia gracilis* (Goetghebuer, 1913), **syn. n.**). Holotype male in NSMT.
- Pseudosmittia togarisea* Sasa & Okazawa, 1992b: 160 (= *Pseudosmittia oxoniana* (Edwards, 1922), **syn. n.**). Holotype male in NSMT.
- Pseudosmittia togasitea* Sasa & Okazawa, 1992b: 161 (= *Camptocladus stercorarius* (De Geer, 1776), **syn. n.**). Holotype male in NSMT.
- Pseudosmittia togativea* Sasa & Okazawa, 1992b: 162 (= *Camptocladus stercorarius* (De Geer, 1776), **syn. n.**). Holotype male in NSMT.
- Smittia triappendiculata* Goetghebuer, 1931: 216 (= *Pseudosmittia forcipata* (Goetghebuer, 1921), **syn. n.**). Holotype male in IRSN.

## Negation of synonymy

*Pseudosmittia triplex* Strenzke, 1950: 301. Valid species and not a synonym of *P. forcipata* (Goetghebuer, 1921) as stated in Ashe & Cranston (1990). Holotype male in NMS.

## New status

*Pseudosmittia virgo montana* Strenzke, 1950: 303 (= *Pseudosmittia montana* Strenzke, 1950, **stat. n.**). Holotype male with pupal exuviae in NMS.

## Nomina dubia

*Camptocladus flaviventris* Kieffer, 1921a: 289, *nomen dubium*. The type could not be located.

*Camptocladus hexalobus* Kieffer, 1924: 395 (= *Pseudosmittia hexalobus* Kieffer, *nomen dubium*). Type lost. A likely senior synonym of either *P. trilobata* or *P. obtusa*.

*Camptocladus longicrus* Kieffer, 1921b: 100, *nomen dubium*. Type lost. A pupal exuviae from NMS is marked type, but collected in 1941 and thus wrongly marked.

*Pseudosmittia restricta* Brundin, 1956: 170, *nomen dubium*. The type could not be found. The species cannot belong in *Pseudosmittia* if the description is correct; a distinct scutal hump is present and the genitalia differ from all other known species.

*Smittia (Pseudosmittia) tenebrosa* Goetghebuer, 1943: 109 (= *Pseudosmittia tenebrosa* (Goetghebuer), *nomen dubium*). Holotype male in IRSN. Mounted between two plastic strips on a pin and ruined in attempt of remounting. Probably a synonym of *P. simplex* Strenzke & Thienemann.

*Camptocladus trifoliatus* Kieffer, 1924: 73, *nomen dubium*. The type could not be located.

*Smittia (Pseudosmittia) vicana* Goetghebuer, 1943: 110 (= *Pseudosmittia vicana* (Goetghebuer), *nomen dubium*). The female holotype supposedly in IRSN could not be found.

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