

NOTA CIENTÍFICA

The subgenus *Stilobezzia* (*Eukraiohelea*) in Argentina and Paraguay (Diptera: Ceratopogonidae)

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El subgénero *Stilobezzia* (*Eukraiohelea*) en la Argentina y Paraguay (Diptera: Ceratopogonidae)

■ **RESUMEN.** Se registra por primera vez para la Argentina a *Stilobezzia* (*Eukraiohelea*) *amnigena* (Macfie) y a *Stilobezzia* (*E.*) *elegantula* (Johannsen) para la Argentina y Paraguay. Se reconoce a *Stilobezzia subsessilis* Kieffer como sinónimo menor de *S. elegantula*.

PALABRAS CLAVE: *Stilobezzia* (*Eukraiohelea*). Argentina. Paraguay. Nuevos registros. Sinonimia.

■ **ABSTRACT.** *Stilobezzia* (*Eukraiohelea*) *amnigena* (Macfie) is recorded for the first time from Argentina, and *Stilobezzia* (*E.*) *elegantula* (Johannsen) from Argentina and Paraguay. *Stilobezzia subsessilis* Kieffer is recognized as a junior synonym of *S. elegantula*.

KEY WORDS: *Stilobezzia* (*Eukraiohelea*). Argentina. Paraguay. New records. Synonymy.

Predaceous midges of the genus *Stilobezzia* Kieffer are common inhabitants of aquatic environments but are often overlooked because of their small size (1-3 mm) (Wirth & Spinelli, 1992). Borkent & Wirth (1997), in their World catalog of Ceratopogonidae, mentioned four subgenera of *Stilobezzia*: the cosmopolitan *Acanthohelea* Kieffer and *Stilobezzia* Kieffer, with more than 300 described species; *Debenhamia* Wirth and Grogan, known by two Australian species; and *Eukraiohelea* Ingram and Macfie, with 14 described species from Africa, America and southeastern Asia.

The subgenus *Stilobezzia* (*Eukraiohelea*) is presently known in America by four species: *S. (E.) amnigena* (Macfie), distributed from southeastern USA to northeastern Brazil, doubtly in Jamaica and Puerto Rico; *S.(E.) dorsofasciata* (Lutz), from Rio de Janeiro, Brazil; *S. (E.) elegantula* (Johannsen), from USA to Panamá, doubtly in Puerto Rico; and *S. (E.) subsessilis* Kieffer, from Paraguay. According to its original description, the later is very similar to *S. (E.) elegantula*. However, in the revision of the New World species of the subgenus (Wirth & Spinelli, 1992), and due to the lack of material from Paraguay

and the wide gap in distribution from that of *S. elegantula*, *S. subsessilis* was regarded as *species inquirenda*, not as a junior synonym.

The purpose of this paper is to report findings of *S. (E.) amnigena* and *S. (E.) elegantula* in northeastern Argentina and/or neighbouring sites of Paraguay, significantly enlarging the distribution of both species, and to propose the synonymy of *S. (E.) subsessilis* under *S. (E.) elegantula*. Accurate descriptions and illustrations of both species may be found in Wirth & Spinelli (1992).

Stilobezzia (*Eukraiohelea*) *amnigena* (Macfie)

Eukraiohelea amnigena Macfie, 1935: 56 (female; Brazil).

Stilobezzia (*Eukraiohelea*) *amnigena*: Lane & Forattini, 1958: 203 (comb.; Jamaica); Lane & Forattini, 1961: 84 (in key); Wirth & Spinelli; 1992: 346 (redescr.; distr.).

Stilobezzia (*Eukraiohelea*) *elegantula*, in part, misident: Wirth, 1953: 62 (male descr.; figs.); Wirth & Grogan, 1981: 78 (male descr.; figs.).

Distribution. U.S.A (Florida, South Carolina), ? Jamaica, ? Puerto Rico, Brazil (Maranhão), Argentina (Corrientes).

New Records. ARGENTINA: Corrientes, Ituzaingó, 22-V-1996, G. Spinelli, CDC light trap.

Remarks. The examined male, unless damaged, clearly shows typical characters of *S. amnigena*: tergite 9 with apicolateral processes, distal portion of parameres long, slender and separate from basal apodemes, and gonostylus stout, swollen in mid portion.

***Stilobezzia* (*Eukraiohelea*) *elegantula*
(Johannsen)**

Bezzia elegantula Johannsen, 1907: 109 (female; U.S.A., Kansas).

Probezzia elegantula: Malloch, 1914: 137 (comb.).

Parabezzia elegantula: Malloch, 1915: 359 (comb.).

Parabezzia (*Eukraiohelea*) *elegantula*: Johannsen, 1934: 345 (notes; status).

Eukraiohelea elegantula: Johannsen, 1943: 781 (comb.).

Stilobezzia (*Eukraiohelea*) *elegantula*: Wirth, 1953: 62 (in part, female; comb.; redescr.; distr.); Wirth & Grogan, 1981: 78 (in part, female; redescr.; figs.); Wilkening *et al.*, 1985: 525 (in part, female; Florida records); Wirth & Spinelli, 1992: 343 (redescr.; distr.).

Stilobezzia (*Eukraiohelea*) *maculitibia*: Lane & Forattini, 1956: 207 (female, male; Panama); Lane & Forattini, 1961: 84 (in key); Wirth & Spinelli, 1992: 344 (syn.).

Stilobezzia subsessilis Kieffer, 1917: 311 (female; Paraguay); Lane & Forattini, 1961: 88 (subgeneric position); Wirth & Spinelli, 1992: 348 (*sp. inquer.*). NEW SYNONYM.

Distribution. U.S.A (Kansas and Louisiana to Maryland and Florida), Panamá, ? Puerto Rico, Paraguay (Itapua), Argentina (Chaco, Misiones).

New Records. ARGENTINA: Chaco. Parque Nacional El Chaco, 11/13-X-1982, G. Spinelli, 1 male, at light; **Misiones:** Posadas, 7-III-2001, G. Spinelli, 1 female, CDC light trap; **PARAGUAY. Itapua,** Aguapey, 10/11-V-2000, A. Ortiz-D. López, 1 male, CDC light trap; same data except 10-VIII-2000, G. Spinelli, 1 male; same data except 1/2-XI-2001, 1 female, 1 male.

Remarks. The detailed examination of the specimens here reported allows us to recognize that their characters are identical to the ones used by Kieffer (1917) in the original description of *S. (E.) subsessilis*, and consequently that this species is a junior

synonym of *S. (E.) elegantula*. The type of *S. (E.) subsessilis*, formerly deposited in the Musée National Hongrois de Budapest, was destroyed by fire.

LITERATURE CITED

1. BORKENT, A. & W. W. WIRTH. 1997. World species of biting midges (Diptera: Ceratopogonidae). *Bull. Amer. Mus. Nat. Hist.* 233, 257 pp.
2. JOHANNSEN, O. A. 1907. Some new species of Kansas Chironomidae. *Kansas Univ. Sci. Bull.* 4: 109-112.
3. JOHANNSEN, O. A. 1934. New species of North American Ceratopogonidae and Chironomidae. *J. N. Y. Ent. Soc.* 42: 343-352.
4. JOHANNSEN, O. A. 1943. Two new species of American Ceratopogonidae (Diptera). *Ann. Ent. Soc. Amer.* 36: 761-762.
5. KIEFFER, J. J. 1917. Chironomides d'Amérique conservés au Musée National Hongrois de Budapest. *Ann. Hist.-Nat. Mus. Nat. Hungarici* 15: 175-228.
6. LANE, J. & O. P. FORATTINI. 1956. Neotropical *Stilobezzia* Kieffer, 1911 I. Nine new Panamanian species (Diptera, Nematocera, Ceratopogonidae). *Rev. bras. Malarol.* 8: 207-226.
7. LANE, J. & O. P. FORATTINI. 1958. Neotropical *Stilobezzia* II. Fourteen new species, chiefly from Panama (Diptera, Ceratopogonidae). *Rev. bras. Entomol.* 8: 203-224.
8. LANE, J. & O. P. FORATTINI. 1961. Neotropical *Stilobezzia*, 1911 III. Key for the the adults of this genus and description of one new species (Diptera, Ceratopogonidae). *Rev. bras. Entomol.* 10: 83-94.
9. MACFIE, J. W. S. 1935. Ceratopogonidae (Dipt.) from the river Amazon. *Stylops* 4: 49-56.
10. MALLOCH, J. R. 1914. Synopsis of the genus *Probezzia*, with description of a new species. *Proc. Biol. Soc. Wash.* 27: 137-140.
11. MALLOCH, J. R. 1915. The Chironomidae, or midges, of Illinois, with particular reference to the species occurring in the Illinois river. *Bull. Ill. St. Lab. Nat. Hist.* 10: 275-543.
12. WILKENING, A. J., D. L. KLINE & W. W. WIRTH. 1985. An annotated checklist of the Ceratopogonidae (Diptera) of Florida with a new synonymy. *Fla. Ent.* 68: 511-537.

13. WIRTH, W. W. 1953. Biting midges of the heleid genus *Stilobezzia* in North America. *Proc. U. S. Nat. Mus.* 103: 57-85.
14. WIRTH, W. W. & W. L. GROGAN. 1981. Natural History of Plummers Island, Maryland XXV. Biting midges (Diptera: Ceratopogonidae). 3. The species of the tribe Stilobezziini. *Bull. Biol. Soc. Wash.* 5: 1-102.
15. WIRTH, W. W. & G. R. SPINELLI. 1992. American predaceous midges of the subgenus *Eukraiohelea* of *Stilobezzia* (Diptera: Ceratopogonidae). *Fla. Ent.* 75: 342-349.

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