

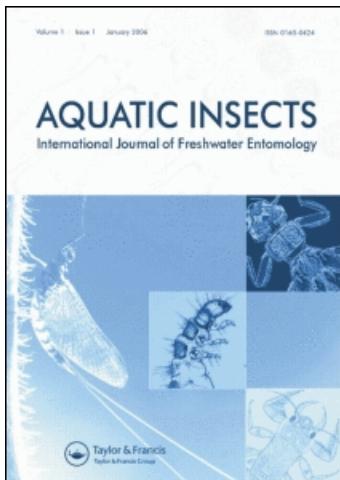
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### ***Diamesa subletti* sp.n., a new species of Chironomid (Diptera, Chironomidae) from Canada**

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***Diamesa subletti* sp.n., a New Species of Chironomid  
(Diptera, Chironomidae) from Canada**

by

E.A. MAKARCHENKO

MAKARCHENKO, E. A.: *Diamesa subletti* sp.n., a New Species of Chironomid (Diptera, Chironomidae) from Canada.  
Aquatic Insects 8, 1986, No. 3, pp. 155-157.

A new chironomid species, *Diamesa subletti* sp.n. from Alberta, Canada, is described and illustrated.

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***Diamesa subletti* sp.n. (Figs. 1-2)**

Material. Holotype: ♂, Laggan, Popes Peak, Alberta, Canada, 26.VIII.1925 (O. Bryant). The holotype is deposited in the California Academy of Sciences (CAS 5).

The species is named in honour of Prof. J. E Sublette from the University of Southern Colorado, U.S.A.

The terminology follows Saether (1980).

Male: Total length ca. 4.5 mm.

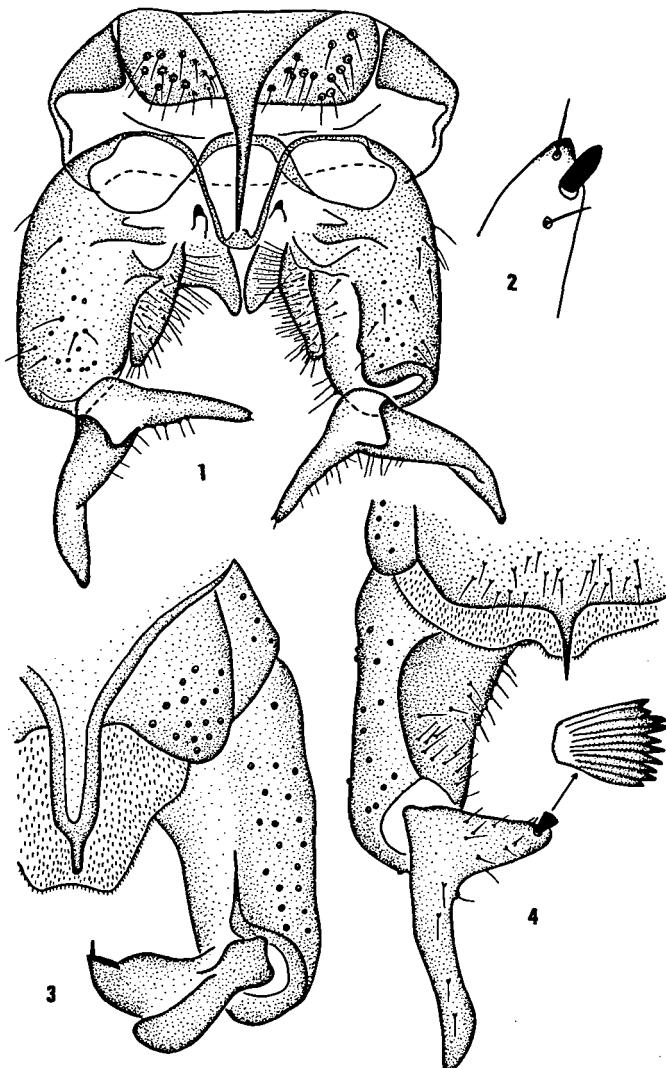
Head: Eyes bare (except microtrichia visible only at magnifications over 500x), without parallel-sided dorsomedial projection. Setae of coronal triangle, 4. Preoculars, 4. Verticals, 14-16. Postorbital, 11. Clypeals, 10. Antenna with 14 antennomeres; antennal plume well developed; subapical seta of length of terminal flagellomere, 40  $\mu$ ; AR = 1.39-1.44. Length of maxillary palp segments length ( $\mu$ ), 122.5 : 180 : 185 : 165; second segment of maxillary palp with sensilla capitata (diameter 10  $\mu$ ); palp length/head width, 1.0.

Thorax: Antepronotum with 6 ventrolateral antepronotals. Dorsocentrals, 11-12. Prealars, 8. Scutellars, 32.

Wing: Length 4.2 mm. RM/MCu = 3.4. R and R<sub>1</sub> with 26-39 macrotrichia, R<sub>4+5</sub> with 4 macrotrichia. Anal lobe well developed.

Legs: Hind tibial comb consisting of 15 spines. Length ( $\mu$ ) and ratios of leg segments as follows:

P	f	t	Ta <sub>1</sub>	Ta <sub>2</sub>	Ta <sub>3</sub>	Ta <sub>4</sub>	Ta <sub>5</sub>	LR	SV	BV
P <sub>I</sub>	1384.6	1722.7	1239.7	611.8	370.3	96.6	128.8	0.72	2.51	3.60
P <sub>II</sub>	1416.8	1513.0	837.2	450.8	273.7	96.6	128.8	0.55	3.50	3.97
P <sub>III</sub>	1738.8	1867.6	1288.0	676.2	354.2	128.8	161	0.69	2.80	2.80



Figs. 1-4: Male hypopygium of *Diamesa subletti* (1-2), *Diamesa geminata* (3) and *Arctodiamesa appendiculata* (4). 1, 3-4 – dorsal views; 2 – distal part of gonostylus (inner lobe).

**Hypopygium.** Tergite IX with 15-16 short setae and relatively long and thin anal point. Gonocoxite with one flat, setaceous appendage. Gonostylus forked, inner and outer lobes of about equal shape; inner lobe 0.6-0.7 times shorter than outer one, with sparse, short bristles, ending with simple terminal spine and tooth (Fig. 2).

Differential diagnosis. Male *Arctodiamesa appendiculata* (Lundström) and *Diamesa geminata* Kieffer of tribe Diamesini have similar, i.e., forked, gono-styles as *Diamesa subletti* sp.n., but the new species is distinguished from them by the following characters:

- *Diamesa subletti* sp.n.: Eyes bare, 2nd segment of maxillary palp with sensilla capitata. Gonocoxite with flat appendage. Inner lobe of gonostylus with simple terminal spine and tooth (Fig. 2).
- *Diamesa geminata* Kieffer (Makarchenko, 1985): Eyes bare, 2nd segment of maxillary palp with sensilla capitata. Gonocoxite without appendage. Inner lobe of gonostylus with simple terminal spine and without tooth (Fig. 3).
- *Arctodiamesa appendiculata* (Lundström) (Makarchenko, 1984, 1985): Eyes hairy. 2nd segment of maxillary palp without sensilla capitata. Gonocoxite with a flat appendage. Inner lobe of gonostylus with a wide terminal spine, divided into 5-10 branches (Fig. 4).

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