

SOME CHIRONOMIDAE (DIPTERA) NEW TO BRITISH COLUMBIA AND CANADA

ROBERT A. CANNINGS

Department of Zoology, University of British Columbia,
Vancouver

During recent research on the chironomid fauna of saline lakes in the southern interior plateau region of British Columbia, a number of species new to Canada or British Columbia were encountered.

The following list cites those species that have been identified to date with certainty and gives the water bodies from which these insects have been taken in emergence traps. Species new to Canada are identified in the text by a double asterisk (***) and those new to British Columbia by a single asterisk (*).

The lakes studies are shown in Table 1 and are the same as those considered by Scudder (1969). Further details of the study area and the ecology of the chironomid species will be published later.

Family Chironomidae
Subfamily Tanyptodinae
Tribe Macropelopiini
Subtribe Macropelopiina

**Derotanypus (Merotanypus) alaskensis*
(Malloch)

B.C.—Barnes L., Round-up L., L. Lyle, Boitano L., L. Jackson, L. Greer, Rock L., Near Phalarope, Westwick L., Sorenson L., Near Opposite Crescent, Box 17, Barkley L., East L. and Box 27.

Previous records: Alaska, Yukon Territory, Northwest Territories, Alberta, Saskatchewan and Manitoba (Roback, 1971).

Subtribe Procladiina

**Procladius (Procladius) dentus* Roback

B.C.—Barnes L., Round-up L., L. Lyle, Boitano L., Rock L., Westwick L., Sorenson L., Near Opposite Crescent, Barkley L. and East L.

Previous records: Alaska, Northwest Territories, Saskatchewan, Manitoba, Quebec and Labrador (Roback, 1971).

**Procladius (Procladius) clavus* Roback

B.C.—Barnes L., Round-up L., L. Lyle and Boitano L.

Previous records: Spence Bay and Ceillini Lake, Northwest Territories (Roback, 1971).

Tribe Pentaneurini

**Ablabesmyia (Karelia) peleensis* (Walley)

B.C.—Barkley L., East L. and Box 27.

Previous records: Alberta and Ontario, Wisconsin and Iowa east to New York and south to South Carolina (Roback, 1971).

Subfamily Orthoclaadiinae

Tribe Orthoclaadiini

**Cricotopus abanus* Curran

B.C.—Box 17, Barkley L., East L., and Box 27. Previous records: Manitoba (Sublette and Sublette, 1965; Sublette, 1967).

**Cricotopus flavibasis* Malloch

B.C.—Round-up L., L. Lyle, Boitano L., L. Jackson, L. Greer, Rock L., Near Phalarope, Westwick L., Sorenson L., Near Opposite Crescent, Box 17, Barkley L. and East L.

Previous records: Alberta (Strickland, 1938) and Illinois (Sublette and Sublette, 1965).

**Cricotopus trifasciatus* (Meigen)

B.C.—L. Greer, Near Phalarope and Barkley L. Previous records: Germany, Idaho, east to Ontario and New York, south to Missouri and Florida (Sublette and Sublette, 1965).

***Acricotopus nitidellus* (Malloch)

B.C.—a single male from Sorenson L.

Previous records: Illinois and New York (Sublette and Sublette, 1965; Sublette, 1970).

**Psectrocladius barbimanus* Edwards

B.C.—Barnes L., Round-up L., L. Lyle, Boitano L., L. Jackson, L. Greer, Rock L., Near Phalarope, Westwick L., Sorenson L., Near Opposite Crescent, Box 17, Barkley L., East L. and Box 27.

Previous records: northern and western Europe and Stoughton, Saskatchewan (Saether, 1969).

***Psectrocladius zetterstedti* Brundin

B.C.—Box 27

Previous records: Sweden (Brundin, 1949). First record for North America.

Subfamily Chironominae

Tribe Chironomini

**Chironomus atrella* (Townes)

B.C.—one male from Sorenson L.

Previous records: Alberta to Prince Edward Island and south to California, Colorado and Massachusetts (Sublette and Sublette, 1965).

**Einfeldia pagana* (Meigen)

B.C.—Barnes L., Round-up L., L. Lyle, Boitano L., L. Jackson, L. Greer, Rock L., Near

Table 1. Location and characteristics of water bodies studied in the Cariboo and Chilcotin areas of British Columbia. Names in parentheses are those used by Scudder (1969).

<u>Water body</u>	<u>Location</u>		<u>Area</u> (ha)	<u>Mean depth</u> (m)	<u>Max. depth</u> (m)	<u>Mean conductivity</u> (microhmos/cm. at 25°C)
Barnes L.* (Box 4 [†])	52°0'30"N	122°28'00"W	17.20	2.0	4.5	11816
Round-up L.* (Phalarope [†])	52 02	122 30 30	30.84	2.6	6.2	6885
L. Lye* (Box 20-21 [†])	52 01	122 29 30	46.50	2.8	5.4	6548
Boitano L.**	51 57	122 08	80.70	2.7	4.5	4108
L. Jackson* (Nr. Opposite Box 4 [†])	52 00	122 27 30	5.83	1.4	2.3	2766
L. Greer* (Box 89 [†])	51 59 30	122 26	15.18	1.0	2.3	1602
Rock L.*	51 58	122 25	34.60	1.1	2.5	1496
Near Phalarope [†]	52 02	122 31	5.06	1.3	3.0	1334
Westwick L.**	51 59	122 09	58.32	1.3	4.5	1287
Sorenson L.††	52 00	122 10	-	-	-	-
Nr. Opposite Crescent [†]	51 59 30	122 27	6.88	1.4	3.3	810
Box 17 [†]	51 59 30	122 26 30	2.67	1.1	3.3	741
Barkley L.* (Opposite Box 4 [†])	52 00	122 28	4.53	0.7	2.2	592
East L.* (Racetrack [†])	51 59 30	122 26	27.03	1.9	6.5	372
Box 27 [†]	51 59	122 25	4.30	0.5	1.5	16

**Official names cited in the Gazetteer of Canada. British Columbia Canadian Board of Geographical Names, Ottawa (1953).

* Official names adopted on the Chilcotin Training Area Composite Map MCE 120 (Edition 2). Mapping and Charting Establishment, Department of National Defence, Ottawa (1968).

† Unofficial names used by Scudder (1969). The "Box" series refer to duck nest boxes put up near the water body by the Game Branch of the B.C. Department of Recreation and Conservation in the 1950s; other names are convenience descriptive terms used for the water bodies by Scudder and his students over the years.

†† Unofficial name used locally for the western half of the old Westwick L. which is now split into two by a road. The name Westwick L. as used here refers to the lake to the east of the road.

Note: Characteristics of water bodies taken from Scudder (1969) and Topping (1969).

Phalarope, Westwick L., Sorenson L., Near Opposite Crescent, Box 17, Barkley L., East L. and Box 27.

Previous records: Europe; Idaho, South Dakota, Michigan and New York (Sublette and Sublette, 1965). In Canada the only other record is from Saskatchewan (Driver, 1971).

**Cryptochironomus psittacinus* (Meigen)

B.C.—Round-up L., L. Lye and Boitano L.

Previous records: Europe; Alaska to New York and south to Oregon and Kentucky (Sublette and Sublette, 1965).

**Cryptotendipes ariel* (Sublette)

B.C.—Barnes L., Round-up L., L. Lye and Boitano L.

Previous records: California (Sublette and Sublette, 1965).

Tribe Tanytarsini

**Tanytarsus gracilentus* Holmgren

B.C.—Barnes L., Round-up L., L. Lye and Boitano L.

Previous records: northern Europe, Alaska and Northwest Territories (Ellesmere Is.) (Sublette and Sublette, 1965).

***Tanytarsus holochlorus* Edwards

B.C.—Barnes L., L. Lye, Boitano L., Westwick L., Sorenson L., Box 17, Barkley L. and Box 27.

Previous records: Europe (Mundie, 1957).

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