

BUPRESTIDAE OF SOUTHERN VANCOUVER ISLAND

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ABSTRACT

This paper lists the Buprestidae known to occur on Southern Vancouver Island, British Columbia, with their hosts. Represented are the following tribes: Buprestini (15 spp.); Chrysobothrini (6 spp.); Acmaeoderini (1 sp.); and Agrilini (1 sp.).

INTRODUCTION

Southern Vancouver Island comprises that area of the island south of latitude 49.5°. This area includes two major biotic zones, the coastal forest and the gulf island lowlands (Cannings and Stuart 1977). These zones have moderate temperatures and abundant winter rain with a characteristic Vancouverian fauna which is noted for its diversity of geobious and hydrobious beetles (Hatch 1953).

References to the Buprestidae of Southern Vancouver Island are brief. They include those of Walker (1866), LeConte (1869), Holland (1888), and Evans (1957), but Hardy (1927, 1942) compiled an annotated list of his captures in the greater Victoria area with notes on host species.

This paper expands the work of Hardy to include capture records from the southern part of the island. Specimens examined came from the collections of the University of Victoria (UV), the British Columbia Provincial Museum (PM), the Pacific Forest Research Center (PF), and the Saanichton Research Station (S). Figures in parentheses represent the number of specimens in the collection. The identifications and classification used in this list follow Barr (1971). The place names may be found in the Gazetteer of British Columbia and are printed in boldface type.

Family Buprestidae

Subfamily Buprestinae

Tribe Buprestini

Chalcophora angulicollis LeC.: **Victoria**, 4-VIII-29, W. H. A. Preece, (S) (2); ?-VIII-33, W. Downes, (S) (1); **Errington**, 6 to 29-V-29, G. H. Larnder, (PM) (12); **Sidney**, 5-VI-27, A. W. Nicholls, (PM) (5); **Victoria**, 24-V-34, G. A. Hardy, new cut fir, (PM) (3); **Nanaimo**, Holland (1888); **Walker** (1866); **LeConte** (1869); **Wellington**, anonymous (1906); Hosts: *Pinus contorta*, *P. ponderosa*, *Abies grandis*, *A. concolor* and *Pseudotsuga menziesii* (Barr 1971).

Trachykele blondeli Mars.: **Errington**, 3-VII-51, G. H. Larnder, (PM) (1); **Shawnigan L.**, 30-V-26, G. A. Hardy, (PM) (1); Hosts: *Thuja plicata*, *Cupressus* and *Juniperus* (Barr 1971).

Trachykele nimbose Fall: **Langford**, 2-VI-60, D. Evans, in flight, (PF) (1); Hosts: *A. grandis*, *A. concolor*, *A. magnifica* and *T. mertensiana* (Barr 1971); Possibly a new island record.

Dicerca tenebrosa Kby.: **Nanaimo**, Holland (1888); **Wellington**, anonymous (1906); Hosts: numerous coniferous spp. (Barr 1971).

Dicerca sexualis Cr.: **Victoria**, 23-VI-34, G. A. Hardy, on *A. grandis*, (PM) (10); **Departure Bay**, ?-VI-08, W. Taylor, (PM) (1).

Dicerca crassicolis LeC.: **Errington**, 5-VI-29, 21-III-40, G. H. Larnder, (PM) (17); **LeConte** (1869).

Dicerca tenebrica Kby.: **Mesachi L.**, 12-VII-67, R. Morley, on beach, (UV) (1); Possibly a new island record.

Poecilnota fraseri Chamb.: **Victoria**, 20-VIII-26, G. A. Hardy, on willow, (PM) (2); **Evans** (1957); Hosts: *Salix* spp. (Barr 1971).

Buprestis aurulenta L.: **Victoria**, 4-VIII-29, W. H. A. Preece, (S) (3); G. A. Hardy, (PM) (3); **Shawnigan L.**, 14-VII-09, (S) (1); **Errington**, 1-VI-29, G. H. Larnder, (PM) (6); **Sidney**, 26-V-25, G. A. Hardy, on new-cut fir, (PM) (11); **Millstream**, G. A. Hardy, (PM) (9); **Walker** (1866); **LeConte** (1869); **Nanaimo**, Holland (1888); **Wellington**, anonymous (1906); Hosts: *Pseudotsuga menziesii*, *Abies grandis*, *Pinus ponderosa*, *P. jeffreyi*, *P. labertiana*, *P. contorta* and *P. flexilis* (Barr 1971).

Buprestis langi Mann.: **Metchosin**, 23-VIII-29, W. J. R. Preece, (S) (1); **Duncan**, 20-VIII-70, K. J. R. Bartlett, on the ground, (UV) (1); **Victoria**, 3-VIII-67, R. Ring, in grass, (UV) (1); 20-VIII-68, J. M. Campbell, on ground, (UV) (1); **Walker** (1866); **LeConte** (1869); **Wellington**, anonymous (1906); Host: *P. menziesii* (Barr 1971).

Buprestis adjecta LeC.: **Errington**, 4-VIII-46, G. H. Larnder, (PM) (1); **Parksville**, 4-VIII-46, G. H. Larnder, (PM) (1); **Nanaimo**, 16-VIII-98, W. Taylor, (PM) (2); **Sidney**, 31-VII-25, W. C. Cornfield, (PM) (1); **LeConte** (1869); **Wellington**, anonymous (1906); Hosts: *P. ponderosa*, *P. jeffreyi*, *P. contorta* and *Picea engelmanni* (Barr 1971).

Buprestis rusticorum Kby.: **Saanich**, 6-VIII-wi, W. H. A. Preece, (S) (2); **Caycuse**, 3-VIII-62, E. D. A. Dyer, in flight, (UV) (1); **Mesachi L.**, 5-VII-68, R. Storey, (UV) (1); **Millstream**, 2-

VIII-25, G. A. Hardy, New-cut Douglas fir, (PM) (8); Errington, 28-VIII-28, G. H. Larnder, (PM) (7); Walker (1866); Hosts: *P. ponderosa*, *Pseudotsuga menziesii* and *Abies grandis* (Barr 1971).

Melanophila acuminata DeG.: Nanaimo, 22-VIII-99, A. W. Hanham, (PM) (1); Duncan, 10-VIII-18, A. W. Hanham, (PM) (1); Nanaimo, Holland (1888); Hosts: *Pinus* spp., *Abies* spp. and *Picea* spp. (Barr 1971).

Melanophila drummondi Kby.: Sidney, 24-VII-26, W. H. A. Preece, (S) (3); 25-V-25, G. A. Hardy, (PM) (7); Victoria, ?-V-71, R. Ring, (UV) (2); 3 to 10-VI-34, G. A. Hardy, new-cut fir, (PM) (13); Errington, 13-V-51, G. H. Larnder, (PM) (5); Goldstream, 3-VI-24, G. A. Hardy, (PM) (7); Nanaimo, Holland (1888); LeConte (1869); Hosts: numerous conifer spp. (Barr 1971).

Anthaxia aeneogaster Cast. et Gory: Saanich, 13-V-29, W. H. A. Preece, (S) (1); Shawnigan L., 11-VI-29, W. Downes, (S) (1); Errington, 14-IV-51, G. H. Larnder, on dandelion, (PM) (7); Victoria, 14-V-27, G. A. Hardy, (PM) (2); Hosts: *Pinus* spp. (Barr 1971).

Tribe Chrysobothrini

Chrysobothris sylvania Fall: Sidney, 21-VI-25, W. H. A. Preece, on fresh-cut Douglas fir, (S) (1); Millstream, 2-VIII-25, G. A. Hardy, on new-cut fir, (PM) (1); Host: *Pseudotsuga menziesii* (Barr 1971).

Chrysobothris carinipennis LeC.: Sidney, 8-VIII-25, G. A. Hardy, new-cut Douglas fir, (PM) (3).

Chrysobothris pseudotsugae Van Dyke: Sidney, 2-V-26, W. H. A. Preece, on fresh Douglas fir, (S) (2); Victoria, 3-VII-34, G. A. Hardy, new-cut *Abies grandis*, (PM) (4); Host: *Pseudotsuga menziesii* (Barr 1971).

Chrysobothris femorata (01.): Sidney, 21-VII-25, W. H. A. Preece, Douglas fir, (PM) (1); Victoria, 21-VI-34, G. A. Hardy, apple tree, (PM) (1); Hosts: numerous deciduous spp. (Barr 1971).

Chrysobothris nixa Horn: Millstream, 1-VIII-25, G. A. Hardy, in a gallery in *Thuja plicata*, (PM) (2); Hosts: *Libocedrus decurrens*, *Thuja plicata* and *Juniperus occidentalis* (Barr 1971).

Chrysobothris caurina Horn: Cowichan L., 20-VII-40, K. Graham, *Pinus contorta*, (PF) (1); Wellington, anonymous (1906); Hosts: *Pinus* spp., *Abies concolor*, *Larix occidentalis*, *Pseudotsuga menziesii* and *Tsuga mertensiana* (Barr 1971).

Subfamily Acmaeoderinae

Tribe Acmaeoderini

Chrysophana placida LeC.: Victoria, 17-VI-69, B. Cousins, (UV) (1); 5-VI-67, R. Morley, (UV) (1); 10-VI-34, G. A. Hardy, *Abies grandis*, (PM) (4); Errington, 6-III-39, 24-VII-44, 9-VI-38, 2-VII-49, G. H. Larnder, (PM) (1); Duncan, 31-III-25, 16-III-18, A. W. Hanham, (PM) (1); Nanaimo, Holland (1888); Hosts: *Pinus* spp., *Abies* spp., *Pseudotsuga menziesii* and *Thuja plicata* (Barr 1971).

Subfamily Agrilinae

Tribe Agrilini

Agrilus politus (Say): Victoria, 5 to 20-V-26, G. A. Hardy, willow, (PM) (11); Wellington, anonymous (1906); Hosts: *Salix* spp. and *Acer* spp. (Barr 1971).

This list increases to 23, the known number of species of Buprestidae on Southern Vancouver Island. The collecting data indicate that buprestids are most common during the summer. This agrees with the observations of Hardy (1927, 1942).

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***EUTROMULA PARIANA* (CLERCK) (LEPIDOPTERA: CHOREUTIDAE), THE CORRECT NAME OF THE APPLE-AND-THORN SKELETONIZER**

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ABSTRACT

Nomenclatural problems are noted which make *Eutromula pariana* (Clerck) the correct name of the apple-and-thorn skeletonizer. Previously used generic names are distinct genera (*Anthophila* Haworth and *Hemerophila* Hübner, [1817]), synonyms (*Simaethis* Leach), or unavailable names ("*Hemerophila*" Hübner, 1806). The species is now placed in the family Choreutidae (Sesioidea) which has been separated from Glyphipterigidae (Copromorphaidea).

The apple-and-thorn skeletonizer, *Eutromula pariana* (Clerck), is an occasional pest of apple trees, introduced from Europe this century. It is now firmly established in apple growing areas of the northeastern United States and southeastern Canada, and in British Columbia, going south to Oregon, Idaho, and Colorado. The specific name of the species has been combined with several generic names in the past, mostly *Anthophila*, *Simaethis*, and *Hemerophila*. The latter generic association was most recently affirmed by Danilevsky and Kuznetsov (1973) and noted by Doganlar (1977).

In a forthcoming revision of the North American Choreutidae (Heppner, in prep.), the name used for the species will be *Eutromula pariana*, following the combination used in a recent British checklist of Lepidoptera (Bradley, 1972). Danilevsky and Kuznetsov (1973), unfortunately, used an 1806 Hübner generic name that is now unavailable for use due to the rejection of Hübner's 1806 paper by

the International Commission on Zoological Nomenclature (Opinion 97, 1926). The next available generic name is *Eutromula* Frölich, 1828, with *E. pariana* as its type-species. The available and valid *Hemerophila* Hübner, [1817] (not Hübner, 1806), refers to a Neotropical genus. *Simaethis* Leach, 1815 is a junior synonym of *Anthophila* Haworth, [1811], which refers to a genus distinct from *Eutromula*.

Although there are dark and light forms of *E. pariana*, both in the Nearctic and the Palearctic, Doganlar (1977) correctly noted that only one species is involved. A recent paper has noted the reasons for the separation of glyphipterigid moths into two families. Glyphipterigidae¹ and Choreutidae (Heppner, 1977). The two families actually are unrelated and belong in different superfamilies based upon morphological and biological features, thus, Copromorphaidea and Sesioidea, respectively, with Choreutidae being relatively closely related to the specialized Sesiidae.

1. Glyphipterigidae is based on the original spelling of *Glyphipterix* as required by the International Code of Zoological Nomenclature, rather than the emendation *Glyphipteryx* (Glyphipterygidae).