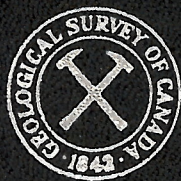


This document was produced
by scanning the original publication.

Ce document est le produit d'une
numérisation par balayage
de la publication originale.



**CATALOGUE OF
TYPE INVERTEBRATE FOSSILS
OF THE
GEOLOGICAL SURVEY OF CANADA**

Volume III

Thomas E. Bolton

1966

CATALOGUE OF
TYPE INVERTEBRATE FOSSILS
OF THE
GEOLOGICAL SURVEY OF CANADA

Volume III

Catalogue of type invertebrate fossils of
the Geological Survey of Canada,
by Thomas E. Bolton, Vol. I (1960), Vol. II (1965).

Catalogue of types and figured specimens of
fossil plants in the Geological Survey of
Canada collections *by* W. A. Bell (1962)



GEOLOGICAL SURVEY
OF CANADA

Volume III

CATALOGUE OF
TYPE INVERTEBRATE FOSSILS
OF THE
GEOLOGICAL SURVEY OF CANADA

By
Thomas E. Bolton

DEPARTMENT OF
MINES AND TECHNICAL SURVEYS
CANADA

© Crown Copyrights reserved

Available by mail from the Queen's Printer, Ottawa,
from Geological Survey of Canada,
601 Booth St., Ottawa,
and at the following Canadian Government bookshops:

OTTAWA

Daly Building, corner Mackenzie and Rideau

TORONTO

Mackenzie Building, 36 Adelaide St. East

MONTREAL

Æterna-Vie Building, 1182 St. Catherine St. West

WINNIPEG

Mall Center Bldg., 499 Portage Avenue

VANCOUVER

657 Granville Avenue

or through your bookseller

A deposit copy of this publication is also available
for reference in public libraries across Canada

Price \$5.00

Catalogue No. M41-4/3

Price subject to change without notice

ROGER DUHAMEL, F.R.S.C.
Queen's Printer and Controller of Stationery
Ottawa, Canada
1966

CONTENTS

	PAGE
Introduction	1
Arthropoda	3
Trilobita	3
Merostomata—Xiphosura	85
Merostomata—Eurypterida	86
Arachnida	89
Branchiopoda	89
Ostracoda	93
Cirripedia	113
Malacostraca	113
Myriapoda	119
Insecta	119
Incertae sedis	133
Worms—Scolecodonts	135
Conodonts	139
Incertae sedis	142
Index to Volumes I, II, and III	145

INTRODUCTION

Volume I (1960) of the *Catalogue of Type Invertebrate Fossils* listed all fossil types from Foraminifera to Brachiopoda in the Geological Survey of Canada collection as of mid-1959, and Volume II (1965) included all Mollusca in the collection as of mid-1963. Volume III contains all the remaining groups in the collection as of mid-1963, namely ARTHROPODA, WORMS-SCOLECODONTS, CONODONTS, INCERTAE SEDIS, and an INDEX for all three volumes. This volume completes this phase of the compilation; future volumes will cover subsequent additions to the collection and will include representatives of all phyla.

The format of Volume III is similar to that adopted for the previous two volumes. The original reference for each species is cited as well as subsequent reviews directly related to the forms listed. Once again, no complete synonymy for each or any species is intended or attempted. Trilobites and Insects are the only groups whose types have been segregated in the present volume according to geological periods.

Primary type categories *Holotype*, *Paratype*, *Syntype*, *Lectotype*, *Neotype*, and secondary type terms *Hypotype*, *Plastotype*, *Topotype*, and *Figured specimen* (*Fig. spec.*) are used with the same connotations as in Volumes I and II.

All type specimens in the three volumes are cited as objectively as possible. A specimen is listed as a holotype only where there was definite evidence that a single specimen was the basis for the original description of the species or where there was an original designation of such (i.e., the type). Where no original type was designated but a specimen within a type lot was figured, the present writer has attempted to identify the figured specimen within the lot, but such specimens are not cited in this catalogue as holotypes. Type designations of earlier described forms by subsequent investigations are listed wherever possible. Some fossils in the type collection bear labels showing different localities from those cited in the original description and in some instances the number of specimens in a particular syntypic lot is greater than originally listed. Such extraneous specimens are omitted from the catalogue unless they have a direct bearing on the status of the species.

In recent years there has been a growing tendency for individuals and organizations to deposit types with the Geological Survey of Canada. Many such specimens are listed in all three volumes. Such donations make the specimens readily accessible under proper storage and curatorial supervision and greatly enhance the value of the National Type Collection.

ARTHROPODA-TRILOBITA

Cambrian

Acadagnostus acadicus var. *declivis* (Matthew)

Hypotype 11101

Hutchison, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 68, pl. 1, fig. 1

MacMullin Formation, Middle Cambrian, south shore St. Andrew Channel, Cape Breton Island, Nova Scotia.

Acontheus inarmatus Hutchinson

Holotype 12053; paratype 12054

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 109, pl. 16, figs. 8a, b, 9.

Middle Cambrian, north shore of Highland Cove, Trinity Bay and Manuels River, Conception Bay, Newfoundland.

Acrocephalops matthewi Hutchinson

Holotype 11186; paratypes 11187-11190

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 100, pl. 6, figs. 3-8.

MacMullin Formation, Middle Cambrian, east bank Indian River and south shore St. Andrew Channel, Cape Breton Island, Nova Scotia.

Agnostus americanus Billings

Syntypes 859, a, c

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 302, figs. 1a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 395, figs. 372a, b.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 233, figs. 250a, b.

Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 233, pl. 36, fig. 2 [holotype 859, paratype 859c].

Levis conglomerate, Upper Cambrian, Levis, Quebec.

Agnostus canadensis Billings

Syntypes 858, a-c, e, f, h

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 304, figs. 3a [858], b [858b].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 397, figs. 374a, b.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 233, figs. 252a, b.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Pseudagnostus canadensis*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 234, pl. 36, figs. 8, 9 [holotype 858b, paratypes 858c-e, h].

Agnostus inexpectans Kobayashi

Syntypes 12004-12006

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 172, pl. 16, figs. 30-33.

Palmer, A.R., 1962, U.S. Geol. Surv., Prof. Paper 374-F, p. 12, pl. 1, figs. 1, 6 [12005].

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Arthropoda

Agnostus orion Billings

Holotype 860f

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 304, fig. 2.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 397, fig. 373.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 233, fig. 251.

Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 233, pl. 36, fig. 7.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

Agnostus pisiformis (Linnaeus)

Hypotypes 13037-13041

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 86, pl. 12, figs. 2-6.

Upper Cambrian, west bank Manuels River, Conception Bay and west shore of Random Island, south of Elliott's Cove, Newfoundland.

"*Agnostus*" spp. A-E

Fig. specs. 13051, 13052, 13054, 13063, 13064

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, pp. 92-93, pl. 12, figs. 7-11.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Agraulos affinis Billings

Syntype 260

Billings, E., 1872, Can. Naturalist Quart. J. Sci., n. ser., vol. 6, p. 473.

Matthew, G., 1887, Trans. Roy. Soc. Can., vol. 4, sec. 4, p. 153, figs. 2,a,b.

Middle Cambrian, branch, St. Marys Bay, Newfoundland.

Agraulos socialis Billings

Syntype 261

Billings, E.,

1872, Can. Naturalist Quart. J. Sci., n. ser., vol. 6, p. 472, fig. 9.

1874, Geol. Surv., Canada, Palaeoz. Fossils, vol. 2, pt. 1, p. 71, fig. 40.

1882, *ibid.*, Rept. Prog. 1881, Newfoundland, Appendix, p. 10, fig. 4.

Middle Cambrian, Chapel Arm, Trinity Bay, Newfoundland.

Agraulos strenuus Billings

Syntypes 267, a, b, 268, a, 269, a

Billings, E., 1874, Geol. Surv., Canada, Palaeoz. Fossils, vol. 2, pt. 1, p. 71, fig. 4 [269(?)].

Lower Cambrian, Topsail Head and Brigus Bay, Conception Bay, Newfoundland.

Anapolenus henrici Salter

Hypotypes 13108-13114

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 112, pl. 17, figs. 12-18.

Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Anapolenus venustus Billings

Plastotypes 284, a

Billings, E.,

1872, Can. Naturalist Geol., vol. 6, p. 474, fig. 11.

1874, Geol. Surv., Canada, Palaeoz. Fossils, vol. 2, pt. 1, p. 73, fig. 42.

1882, *ibid.*, Rept. Prog. 1881, Newfoundland, Appendix, p. 11, fig. 6.

Middle Cambrian, Chapel Arm, Trinity Bay, Newfoundland.

=*Clarella venusta*, Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 111, pl. 17, figs. 7, 8.

Andrarina linarssoni bretonensis Hutchinson

Holotype 11182; paratype 11183

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 99, pl. 5, figs. 17, 18.
Dugald Formation, Middle Cambrian, Dugald Brook, Cape Breton Island, Nova Scotia.*Anomocare tucer* see *Ptychoparella tucer* and *P. kindlei**Apatokephaloides pauper* see *Dikelocephalus pauper**Apatokephaloides rotundatus* Rasetti

Holotype 7667; paratype 7667a

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 465, pl. 60, figs. 15, 16.
Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.*Arionellus cylindricus* Billings

Syntypes 837, a

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 314, fig. 14.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 406, fig. 385.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 237, fig. 264.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Keithiella cylindrica*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 243, pl. 39, fig. 40
[holotype 837a, paratype 837].*Arionellus subclavatus* Billings

Syntypes 838, a-v

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 315, figs. 15, a.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 406, figs. 386, a.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 237, figs. 265a, b.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Keithia subclavata*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 242, pl. 37, figs.
16-19 [holotype 838e, paratypes 838, a-d].*Bailiaspis howelli* Hutchinson

Holotype 12030; paratypes 12031-12033

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 102, pl. 14, figs. 1-4.
Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.*Bailiaspis* cf. *B. howelli* Hutchinson

Hypotypes 12034, 12035

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 103, pl. 14, figs. 5a-c, 6.
Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.*Bailiaspis latigenae* Hutchinson

Holotype 13043; paratype 13044

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 103, pl. 14, figs. 7a, b, 8.
Middle Cambrian, loose nodule on beach, Deep Cove, St. Marys Bay, Newfoundland.*Bailiaspis prominens* Resser

Hypotypes 12028, 12029

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 101, pl. 13, figs. 13, 14.
Chamberlain's Brook Formation, Middle Cambrian, east bank Manuels River, Conception
Bay, Newfoundland.*Bailiaspis venusta* Resser

Hypotypes 12036, 12037

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 100, pl. 13, figs. 11, 12.
Chamberlain's Brook Formation, Middle Cambrian, east bank Manuels River, Conception
Bay, Newfoundland.

Arthropoda

Bailiaspis sp.

Fig. spec. 11176

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 96, pl. 5, fig. 11.

MacMullin Formation, Middle Cambrian, east bank Indian River, Cape Breton Island, Nova Scotia.

Bailiaspis sp.

Fig. spec. 12039

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 104, pl. 14, figs. 9a, b.

Middle Cambrian, on shore near Burgoynes Cove, Smith Sound, Trinity Bay, Newfoundland.

Bailiella manuelensis Hutchinson

Holotype 12043; paratypes 12044, 12045

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 106, pl. 15, figs. 5-7.

Chamberlain's Brook Formation, Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Bailiella ornata Resser

Hypotypes 12041, 12042

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 104, pl. 15, figs. 1, 2.

Middle Cambrian, Highland Cove, Trinity Bay, and east bank Manuels River, Conception Bay, Newfoundland.

Bailiella tenuicincta (Linnarsson)

Hypotypes 12038, 12040

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 105, pl. 15, figs. 3, 4a-d.

Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Bailiella sp.

Fig. spec. 12046

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 107, pl. 16, figs. 1a-c.

Middle Cambrian, on east shore of small bay west of Red Cove, on peninsula between St. Marys and Placentia Bays, Newfoundland.

Bathyriscus senectus (Billings)

Neoholotype [Neotype] 420

Matthew, 1897, Trans. Roy. Soc. Can., ser. 2, vol. 3, sec. 4, p. 196, pl. 4, figs. 4, a.

Lower Cambrian, L'Anse au Loup, Labrador, Newfoundland.

=*Bonnia senecta*, Resser, C.E.,

1936, Smithsonian Misc. Coll., vol. 95, No. 4, p. 8.

1937, J. Pal., vol. 11, No. 1, p. 47, pls. 20-22.

[Note: J. Richardson, 1861 collection and probably part of *Bathyriscus senectus* Billings original material.]

Bathyriscus armatus Billings

Syntype 863

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 319, fig. 23.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 411, fig. 392.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 238, fig. 273.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Plethopeltis armatus*, Raymond, P.E., 1913, Victoria Mem. Mus., Bull. 1, p. 65, pl. 7, fig. 18 [the type].

=*Plethometopus armatus*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 251, pl. 39, fig. 25 [holotype].

Bathyurus capax Billings

Syntypes 835c,e

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 318, figs. 20, a [835e].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 409, figs. 389, a.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 238, figs. 271, a.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Platycolpus capax*, Raymond, P.E., 1913, Victoria Mem. Mus., Bull. 1, p. 63, pl. 7, figs. 20 [835e], 21 [835c].

Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 250, pl. 39, figs. 10 [holotype 835e], 12 [paratype 835c]

Bathyurus dubius Billings

Syntypes 992, a–e

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 319, fig. 21.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 410, fig. 390.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Platycolpus dubius*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 250, pl. 39, figs. 13, 14 [holotype 992, paratypes 992a–c].*Bathyurus parvulus* Billings

Holotype 433

Billings, E.,

1861, "New Species of Lower Silurian Fossils", p. 16, fig. 21.

1861, Rept. Geol. Vermont, vol. 2, p. 953, fig. 361.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 16, fig. 21.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 286, fig. 299.

Lower Cambrian [Forteau Formation], L'Anse au Loup, Labrador, Newfoundland.

=*Dorypyge parvula* var. *angifrons*, Matthew, G.F., 1897, Trans. Roy. Soc. Can., ser. 2, vol. 3, sec. 4, p. 197, pl. 4, figs. 6,a.=*Bonnia parvula*, Resser, C.E.,

1936, Smithsonian Misc. Coll., vol. 95, No. 4, p. 7 [holotype 433].

1937, J. Pal., vol. 11, No. 1, p. 45, pl. 8, figs. 1, 2.

Bayfieldia ulrichi Rasetti

Holotype 7660; paratypes 7660a–d

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 465, pl. 60, figs. 17–19.

Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.

Bellaspidella? latifrons Rasetti

Holotype 7671; paratypes 7671a, b

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 466, pl. 60, figs. 25–27.

Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.

Bellaspidella resseri Rasetti

Holotype 7679; paratypes 7679a, b

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 466, pl. 60, figs. 20–22.

Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.

Bienvillia corax see *Dikalocephalus? corax**Bonnia billingsi* Resser

Holotype 433b; paratype 433f

Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 46, pl. 8, figs. 12, 13 [433b], 14, 15 [433f].

Forteau Formation, Lower Cambrian, L'Anse au Loup, Labrador, Newfoundland.

Arthropoda

Bonnia matthewi see *Dorypyge parvula*

Bonnia occipitalis Rasetti

Holotype 9486; paratypes 9486a, b

Rasetti, F., 1948, J. Pal., vol. 22, No. 1, p. 17, pl. 4, figs. 13–15 [9486].

Lower Cambrian, Bic, Quebec.

Bonnia parvula (Billings)

Hypotype 433a

Resser, C.E.,

1936, Smithsonian Misc. Coll., vol. 95, No. 4, p. 7.

1937, J. Pal., vol. 11, No. 1, p. 45, pl. 8, figs. 3, 4.

Lower Cambrian [Forteau Formation], L'Anse au Loup, Labrador, Newfoundland.

See *Bathyrurus parvulus*

Bonnia richardsoni Resser

Holotype 433d; paratype 433e

Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 47, pl. 8, figs. 16–18 [433d], 19 [433e].

Forteau Formation, Lower Cambrian, L'Anse au Loup, Labrador, Newfoundland.

Bonnia senecta see *Bathyriscus senectus*

Bonnia westoni Resser

Holotype 433c

Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 46, pl. 8, figs. 9–11.

Forteau Formation, Lower Cambrian, L'Anse au Loup, Labrador, Newfoundland.

cf. *Bonnia* sp.

Fig. specs. 16861, 16920

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62–14, p. 6, pl. 1, figs. 5, 7.

Early Cambrian, near headwaters of Gundahoo River lat. 59°06'N., long. 126°01'W., Rabbit River map-area, British Columbia.

Briscoia? *devinei* see *Dikelecephalus devinei*

Briscoia? *latimarginalis* Kobayashi

Holotype 11969

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 192, pl. 15, fig. 23.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Callavia broeggeri (Walcott)

Hypotypes 12085–12092

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 119, pl. 24, figs. 7–14.

Lower Cambrian, east side of Chapel Head; south shore of Heart's Delight Harbour; south shore of Heart's Desire Harbour, Trinity Bay; and Brigus South Point, Conception Bay, Newfoundland.

Centropleura belli Hutchinson

Holotype 10121

Hutchinson, R.D., 1952, Am. J. Sci., vol. 250, p. 275, pl. 1.

Middle Cambrian, Dartmouth River, Gaspé, Quebec.

Chancia canadensis Kobayashi

Syntypes 8714

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 164, pl. 21, fig. 28.

Lower Cambrian, Cap Mountain Ridge, District of Mackenzie.

Chancia ? clusia (Walcott)

Hypotypes 8713, a

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 165, pl. 21, figs. 25–27.

Lower Cambrian, Carcajou River, lat. 65°, northern Mackenzie River, District of Mackenzie.

Ciceraagnostus barlowi var. *C. definatus* (Howell)

Hypotypes 12114–12116

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 88, pl. 10, figs. 12–14.

Chamberlain's Brook Formation, Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Ciceraagnostus cicer (Tullberg)

Hypotypes 13033–13036

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 89, pl. 10, figs. 15, 16a, b; pl. 11, figs. 1a, b, 2.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Clarella venusta (Billings)

Hypotypes 13105, 13106

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 111, pl. 17, figs. 9, 10

Middle Cambrian, limestone nodules in small bay about 3/4 mile north of head of bay, west shore of Chapel Arm, Trinity Bay and Deep Cove, St. Marys Bay, Newfoundland.

Clarella sp.

Fig. spec. 13107

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 112, pl. 17, fig. 11.

Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Condylopyge carinata Westergard

Hypotypes 12093–12098

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 64, pl. 3, figs. 13–15; pl. 4, figs. 1–3.

Chamberlain's Brook Formation, Middle Cambrian, east bank of Manuels River, Conception Bay, Newfoundland.

Condylopyge rex (Barrande)

Hypotypes 12101, 12102

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 65, pl. 4, figs. 6, 7.

Middle Cambrian, southeast and west shores Chapel Arm, Trinity Bay, Newfoundland.

Condylopyge cf. *C. spinigera* Westergard

Hypotypes 12099, 12100

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 64, pl. 4, figs. 4, 5.

Chamberlain's Brook Formation, Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Condylopyge sp. A

Fig. spec. 12125

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 65, pl. 4, fig. 8.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Condylopyge sp. B

Fig. spec. 13053

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 65, pl. 4, fig. 9.

Middle Cambrian, south shore of Little Harbour, St. Marys Bay, Newfoundland.

Arthropoda

Conocephalites adamsii see *Ptychoparia adamsi*

Conocephalites arenosus see *Solenopleura arenosa*

Conocephalites miser Billings

Syntypes 430, a, b

Billings, E.,

1861, "New Species of Lower Silurian Fossils", p. 11, fig. 14 [430(?)].

1861, Rept. Geol. Vermont, vol. 2, p. 950, fig. 354.

1865, Geol. Surv., Canada, Palaeoz. Fossils, p. 11, fig. 14.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 286, fig. 293.

Matthew, G.F., 1897, Trans. Roy. Soc. Can., ser. 2, vol. 3, sec. 4, p. 200, pl. 4, figs. 7, a [430b].

Lower Cambrian [Forsteau Formation], L'Anse au Loup, Labrador, Newfoundland.

=*Ptychoparia miser*, Walcott, C.D.,

1886, U.S. Geol. Surv., Bull. 30, p. 199, pl. 27, fig. 2 [430b].

1891, *ibid.*, 10th Ann. Rept., p. 651, pl. 96, fig. 8.

=*Labradoria miser*, Resser, C.E., 1936, Smithsonian Misc. Coll., vol. 95, No. 4, p. 25 [neoholotype 430b].

=*Labradoria misera*, Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 47, pl. 8, figs. 23–25 [430b], 26, 27 [paratype 430].

=*Labradoria elongata*, Resser, C.E., 1937, *ibid.*, vol. 11, No. 1, p. 48, pl. 8, figs. 28–30 [holotype 430a].

Conocephalites teucer see *Ptychoparella teucer* and *P. kindlei*

Conocephalites vulcanus see *Ptychoparella vulcana*

Conocephalites zenkeri Billings

Syntype 849

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 305, fig. 4.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 398, fig. 375.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 233, fig. 253.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Loganopeltis zenkeri*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 248, pl. 38, fig. 27 [holotype].

Conocorphye terranovica Resser

Hypotypes 12024–12027

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 99, pl. 13, figs. 7–10.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Cotalagnostus barrandei (Salter)

Hypotype 11104

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 69, pl. 1, fig. 4.

MacMullin Formation, Middle Cambrian, east bank Indian River, Cape Breton Island, Nova Scotia.

Cotalagnostus lens (Groenwall)

Hypotypes 12142–12145

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 75, pl. 6, figs. 14–17.

Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Cotalagnostus lens subsp. *C. claudicans* Westergard

Hypotypes 12146–12148

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 76, pl. 6, figs. 18–20.

Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Crepicephalus columbiensis Kobayashi

Syntypes 11984–11988

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 187, pl. 15, figs. 24–28.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Crepicephalus rivus Kindle

Holotype 9464; paratypes 9465–9468

Kindle, C.H., 1948, Am. J. Sci., vol. 246, p. 446, pl. 1, figs. 14–18.

Upper Cambrian, Murphy Creek, Gaspé, Quebec.

Ctenocephalus excavatus Resser

Hypotypes 12015–12017

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 98, pl. 12, figs. 20a, b; pl. 13, figs. 1a, b, 2.

Middle Cambrian, west shore of Chapel Arm, Trinity Bay, Newfoundland.

Ctenocephalus (Hartella) terronovicus Resser

Hypotypes 12010–12014

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 95, pl. 12, figs. 13–17.

Chamberlain's Brook Formation, Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Ctenocephalus howelli Resser

Hypotype 12018

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 96, pl. 12, figs. 18a–c.

Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Ctenocephalus resseri Hutchinson

Holotype 12019

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 97, pl. 12, figs. 19a–c.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Ctenopyge bisulcata (Phillips)

Hypotypes 11150, 11151

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 87, pl. 4, figs. 9, 10.

MacNeil Formation, Upper Cambrian, MacNeil Brook 3/4 mile upstream from MacKeigan Road, Cape Breton Island, Nova Scotia.

Ctenopyge flagellifera (Angelin)

Hypotype 11152

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 87, pl. 4, fig. 11.

MacNeil Formation, Upper Cambrian, Spruce Brook, East Bay, 3/4 mile upstream from Eskasoni road, Cape Breton Island, Nova Scotia.

Ctenopyge pecten (Salter)

Hypotypes 11148, 11149

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 86, pl. 4, figs. 7, 8.

MacNeil Formation, Upper Cambrian, MacNeil Brook 3/4 mile upstream from MacKeigan road, Cape Breton Island, Nova Scotia.

Arthropoda

Dikelocephalus affinis Billings

Syntypes 891, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 197, figs. 183a [891], b [891a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 197, figs. 183, a.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Levisella affinis*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 246, pl. 38, fig. 8 [holotype 891].

Dikelocephalus belli Billings

Syntypes 853, a, c-g

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 311, fig. 7.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 403, fig. 378.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 236, fig. 260.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Loganellus belli*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 247, pl. 38, fig. 18 [holotype 853d, paratypes 853c, e-g].

Dikelocephalus? corax Billings

Syntypes 876, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 334, figs. 322a [876a], b [876].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 334, figs. 322a, b.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Bienvillia corax*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 240, pl. 36, fig. 51 [holotype 876a].

Dikelocephalus cristatus Billings

Syntypes 870, a-e

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 312, fig. 10.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 404, fig. 381.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 236, fig. 258.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Richardsonella cristata*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 256, pl. 39, figs. 50, 51 [holotype 870a, paratypes 870b, c].

=*Richardsonella convexa*, Rasetti, F., 1944, *ibid.*, p. 256, pl. 39, fig. 53 [holotype 870d, paratype 870].

Dikelocephalus dalyi Walcott

Syntypes 5273, a-d

Walcott, C.D., 1914, Smithsonian Misc. Coll., vol. 57, No. 13, p. 367, pl. 64, figs. 1-5.

Upper Cambrian, 2 miles west of Donald Station, British Columbia.

Dikelocephalus devinei Billings

Syntypes 869, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 195, figs. 180 [869c], 181 [869, a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 195, figs. 180, 181.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Briscoia? devinei*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 240, pl. 37, figs. 13-15 [holotype 869c; paratypes 869, a, b].

Dikelocephalus hisingeri Billings

Syntypes 868, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 196, fig. 182 [868a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 196, fig. 182.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

= *Pseudolisania hisingeri*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 252, pl. 37, figs. 26, 27 [holotype 868a].*Dikelocephalus magnificus* Billings

Syntypes 848, a-h

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 307, fig. 5.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 399, fig. 376.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 235, figs. 255a, b.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

= *Hungaria magnifica*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 242, pl. 37, figs. 1-3 [holotype 848b, paratypes 848c, f, h].*Dikelocephalus megalops* Billings

Syntypes 871a-f

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 311, fig. 9.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 403, fig. 380.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 236, fig. 257.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

= *Richardsonella megalops*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 255, pl. 39, figs. 48 [871c], 49 [871a].*Dikelocephalus oweni* Billings

Syntypes 854, a-e

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 310, fig. 8 [854].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 402, fig. 379.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 236, fig. 259.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

= *Levisella oweni*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 246, pl. 38, fig. 5 [holotype 854, paratypes 854a-e].*Dikelocephalus pauper* Billings

Syntypes 877, a-i

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 200.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 200.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

= *Apatokephaloides pauper*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 238, pl. 36, fig. 42 [holotype 877b, paratypes 877, a, c-h].= *Richardsonella convexa*, Rasetti, F., 1944, *ibid.*, p. 256 [paratype 877i].*Dikelocephalus planifrons* Billings

Syntypes (?) 5594, a-d

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 309, fig. 6 [5594?].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 401, fig. 377.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 236, fig. 256.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

= *Lauzonella planifrons*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 244, pl. 37, figs. 22, 24 [holotype 5594, paratypes 5594a-d].

[Note: Some doubt specimens primary types as apparently collected by T.C. Weston.]

Arthropoda

Dikelocephalus selectus Billings

Holotype 879

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 199.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 199.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Saukiella selecta*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 256, pl. 39, fig. 57.

Dikelocephalus sesostris Billings

Syntypes 855, a-g

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 198, fig. 184 [855b].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 198, fig. 184.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Pseudosaukia sesostris*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 254, pl. 39, figs. 32, 33 [holotype 855b, paratypes 855a, c-g].

Dikelocephalus pygidium

Fig. spec. 717

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 311, fig. 11.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 403, fig. 382.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 237, fig. 263.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Loganellus belli*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 247, pl. 38, fig. 20.

Dipharus attleborensis (Shaler and Foerste)

Hypotypes 12076, 12077

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 61, pl. 3, figs. 3, 4.

Smith Point Member, Lower Cambrian, Broad Cove, Smith Sound, Newfoundland.

Dipharus planus Hutchinson

Holotype 12078; paratypes 12079-12082

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 61, pl. 3, figs. 5-9.

Lower Cambrian, Brigus South Point, Conception Bay, Newfoundland.

Diplagnostus nordengi Hutchinson

Holotype 12168; paratypes 12169, 12170

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 78, pl. 7, figs. 14-16.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Diplagnostus planicauda forma *D. bilobatus* Kobayashi

Hypotypes 12159-12163

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 78, pl. 7, figs. 10-13.

Middle Cambrian, Highland Cove and first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Dolichometopsis humei Kobayashi

Syntypes 8712, a

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 162, pl. 21, figs. 29, 30.

Lower Cambrian, Cap Mountain Ridge, District of Mackenzie.

Dolichometopsis? sp. undet.

Fig. specs. 13539a, b, 13540, 13541, a, 13542a, b, 13543, 13544a-d, 13545, a-d.

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 958, pl. 118, figs. 9-16; pl. 119, figs. 12-15.

Mount Whyte Formation, Middle Cambrian, beds W7c, 7f, 28f, 28fg, Mount Field and beds W4d, Ross Lake, British Columbia; beds W20d, Eiffel Peak, Alberta.

Doryagnostus incertus (Broegger)

Hypotypes 13024–13026

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 87, pl. 10, figs. 9–11.

Middle Cambrian, Highland Cove and 2,000 feet north of mouth of brook on southeast shore Chapel Arm, Trinity Bay, Newfoundland.

Dorypyge parvula (Billings)

Hypotypes 427, 433g

Matthew, G.F., 1897, Trans. Roy. Soc. Can., ser. 2, vol. 3, sec. 4, p. 197, pl. 4, figs. 5, a [433g], b, c [427?].

Lower Cambrian [Forteau Formation], L'Anse au Loup, Labrador, Newfoundland.

= *Bonnia matthewi*, Resser, C.E., 1936, Smithsonian Misc. Coll., vol. 95, No. 4, p. 8 [syntypes 427, 433g].1937, J. Pal., vol. 11, No. 1, p. 45, pl. 8, figs. 5–7
[holotype 433g], 8 [paratype 427].*Dorypyge parvula* var. *angifrons* see *Bathyurus parvulus**Dunderbergia canadensis* Kobayashi

Syntypes 11954–11956

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 182, pl. 16, figs. 16, a, 17.

Wilson, J.L., 1956, J. Pal., vol. 30, No. 6, p. 1346, pl. 146, fig. 22 [11954].

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Dunderbergia (Megadunderbergia) convexa Kobayashi

Holotype 11963

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 182, pl. 15, fig. 33.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Dunderbergia (Megadunderbergia) quadrata Kobayashi

Holotype 11962

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 183, pl. 15, figs. 32a, b.

Palmer, A.R., 1960, U.S. Geol. Surv., Prof. Paper 334–C, pl. 4, fig. 27.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Dunderbergia (Megadunderbergia?) similator (Hall and Whitfield)

Hypotype 11983

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 183, pl. 16, fig. 39.

McKay Group, Upper Cambrian, 1 mile northwest of Leancoil, British Columbia.

Ehmania borealis Howell

Paratypes 6463–6465

Howell, B.F., 1943, J. Pal., vol. 17, No. 3, p. 240.

Cloud Rapids Formation, Middle Cambrian, Cloud Rapids and point between Cloud Rapids and First Tickle Bay, Canada Bay, Newfoundland.

Elvinia roemeri (Shumard)

Hypotypes 11970–11975

Kobayashi, T., 1938, Jap. J., Geol. Geog., vol. 15, Nos. 3–4, p. 180, pl. 15, figs. 6–8, 10–12.

McKay Group, Upper Cambrian, Mount Hunter, British Columbia.

Elvinia sp. aff. *E. roemeri* (Shumard)

Hypotype 11935

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 180, pl. 15, fig. 13.

McKay Group, Upper Cambrian, Northwest Van Horne Range, British Columbia.

Arthropoda

Elvinia (?) sp.

Fig. spec. 11934

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 181, pl. 15, fig. 14.

McKay Group, Upper Cambrian, Northwest Van Horne Range, British Columbia.

Elyx matthewi Hutchinson

Holotype 12020; paratypes 12021-12023

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 99, pl. 13, figs. 3-6.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Eodiscus armatus Hutchinson

Holotype 12072; paratypes 12073-12075

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 60, pl. 2, figs. 8a-c, 9; pl. 3, figs. 1a-c, 2.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Eodiscus punctatus (Salter)

Hypotypes 11113-11116

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 73, pl. 1, figs. 13-16.

Trout Brook Formation, Middle Cambrian, Canoe Lake Brook, Cape Breton Island, Nova Scotia.

Eodiscus punctatus (Salter)

Hypotypes 12067-12071

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 59, pl. 2, figs. 3-7.

Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Eodiscus scanicus (Linnarsson)

Hypotypes 12065, 12066

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 59, pl. 2, figs. 1a-c, 2a-c.

Middle Cambrian, first small bay east of tip of McLeod Point and west shore of Chapel Arm, Trinity Bay, Newfoundland.

Fieldaspis bilobata Rasetti

Hypotypes 13536, 13537

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 956, pl. 121, figs. 12, 13.

Mount Whyte Formation, Middle Cambrian, beds W20d, Eiffel Peak, Alberta and beds W7ef, Mount Field, British Columbia.

Fieldaspis celer (Walcott)

Hypotypes 13538a-h

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 957, pl. 118, figs. 2-8.

Mount Whyte Formation, Middle Cambrian, beds W28fg, Mount Field, British Columbia.

Fremontia sp.

Fig. specs. 16859, 16860

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 6, pl. 1, figs. 4, 6.

Atan Group, Early Cambrian, 7.4 miles northwest of northeastern end of Denetian Lake, Kechika map-area, British Columbia.

Glossopleura cf. *G. boccar* (Walcott)

Hypotype 16864

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 8, pl. 2, fig. 9.

Middle Cambrian, mountain between forks of south branch of Snake Indian River, Jasper Park, Alberta.

Glossopleura williamsi Kobayashi

Syntypes 8711, a-e

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 163, pl. 21, figs. 16-18, 21-23.

Middle Cambrian, Saline River at fork 8 miles above mouth, District of Mackenzie.

Glyphaspis (?) sp. undet.

Fig. spec. 11947

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 189, pl. 15, fig. 29.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Glyptagnostus "reticulatus" (Angelin)

Hypotype 11939

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 170, pl. 16, fig. 34.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Glyptometopus laflammei (Clark)

Hypotype 7662

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 467, pl. 61, figs. 1, 2.

Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.

Grandagnostus vermontensis Howell

Paratypes 6456-6459

Howell, B.F.,

1935, J. Pal., vol. 9, No. 3, p. 221.

1937, Bull. Geol. Soc. Amer., vol. 48, p. 1166.

St. Alban's Formation, Middle Cambrian, just west of and 1 mile southwest of St. Albans, and 1 1/2 miles south-southeast of Swanton Junction, Franklin co., Vermont, U.S.A.

Hardyoides minor Kobayashi

Holotype 11943

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 177, pl. 16, fig. 29.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Hartshillia terranovica Hutchinson

Holotype 12059; paratypes 12060, 12061

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 109, pl. 16, figs. 10a, b; pl. 17, figs. 1a, b, 2.

Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Holasaphus centropyge Matthew

Hypotypes 11200-11204

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 104, pl. 7, figs. 8-12.

MacMullin Formation, Middle Cambrian, south shore St. Andrew Channel, Young's Point, and east bank Indian River, Cape Breton Island, Nova Scotia.

Holocephalina americana Resser

Hypotypes 12055-12058

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 110, pl. 17, figs. 3-6.

Middle Cambrian, Highland Cove, Trinity Bay and east bank Manuels River, Conception Bay, Newfoundland.

Homaagnostus acutus Kobayashi

Syntypes 11993-11997

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 172, pl. 16, figs. 18-22.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

= *Pseudagnostus*? *acutus*, Palmer, A.R., 1960, U.S. Geol. Surv., Prof. Paper 334-C, p. 62, pl. 4, fig. 10 [lectotype 11996].

Arthropoda

Homagnostus acutus Kobayashi

Hypotype 11954

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, pl. 16, fig. 16b.

Wilson, J.E., 1956, J. Pal., vol. 30, No. 6, pl. 146, fig. 22.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Homagnostus cf. acutus Kobayashi

Hypotype 11979

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 173, pl. 15, fig. 4.

McKay Group, Upper Cambrian, Mount Hunter, British Columbia.

Hungaiia magnifica see *Dikelocephalus magnificus*

Hypagnostus parvifrons (Linnarsson)

Hypotypes 12140, 12141

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 73, pl. 6, figs. 6a, b, 7.

Middle Cambrian, north shore Highland Cove, Trinity Bay, Newfoundland.

Hypagnostus parvifrons var. *H. mammillatus* (Broegger)

Hypotypes 12136–12139

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 74, pl. 6, figs. 8–11.

Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Hypagnostus cf. H. truncatus (Broegger)

Hypotype 12149

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 74, pl. 6, fig. 12.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Hypagnostus ? sp.

Fig. spec. 13050

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 74, pl. 6, fig. 13.

Middle Cambrian, west bank Manuels River, Conception Bay, Newfoundland.

Iddingsia concava Kobayashi

Holotype 11936; hypotype 11937

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 179, pl. 15, figs. 15a, b, 16.

McKay Group, Upper Cambrian, Northwest Van Horne Range, British Columbia.

Irvingella (Irvingellina) protuberans Kobayashi

Syntypes 11976, 11977

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 176, pl. 15, figs. 1a–c, 2.

McKay Group, Upper Cambrian, Mount Hunter, British Columbia.

Irvingella (Irvingellina)? sp. undet.

Fig. spec. 11980

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 176, pl. 15, figs. 3a, b.

McKay Group, Upper Cambrian, Mount Hunter, British Columbia.

Jubileia grandifrons Kobayashi

Holotype 11944

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 191, pl. 16, figs. 28a, b.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Kaninia sulcata Kobayashi

Syntypes 11950–11952

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 190, pl. 16, figs. 36–38.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Kaninia sulcata Kobayashi

Hypotype 11953

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 190, pl. 15, fig. 19.
McKay Group, Upper Cambrian, Northwest Van Horne Range, British Columbia.*Kaniniella concinna* Kobayashi

Holotype 11968

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 191, pl. 15, figs. 20a, b.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Keithia subclavata see *Arionellus subclavatus**Keithiella cylindrica* see *Arionellus cylindricus**Keithiella cylindrica* (Billings)

Hypotype 7668

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, pl. 61, p. 469, fig. 8.
Levis conglomerate, Upper Cambrian, Levis, Quebec.*Keithiella maior* Rasetti

Holotype 7666

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 468, pl. 61, figs. 6, 7.
Levis conglomerate, Upper Cambrian, Levis, Quebec.*Kochaspis eiffelensis* Rasetti

Hypotypes 13548, 13549a, b, 13550

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 960, pl. 119, figs. 5-8.
Mount Whyte Formation, Middle Cambrian, beds W20d, Eiffel Peak, Alberta; beds W7ef and W28fg, Mount Field, British Columbia.*Kochiella* ? *gibbosa* Rasetti

Holotype 13554; paratypes 13555, a

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 961, pl. 121, figs. 1-4.
Mount Whyte Formation, Middle Cambrian, beds W28fg, Mount Field, British Columbia.*Kochiella* ? *maxeyi* Rasetti

Hypotype 13551-13553

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 961, pl. 120, figs. 1-3.
Mount Whyte Formation, Middle Cambrian, beds W20d, Eiffel Peak, Alberta; beds W7ef, Mount Field, British Columbia.*Labradoria elongata* see *Conocephalites miser**Labradoria misera* see *Conocephalites miser**Lauzionella planifrons* see *Dikelocephalus planifrons**Leptoplastus minor* Westergard

Hypotypes 11145-11147

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 85, pl. 4, figs. 3-5.
MacNeil Formation, Upper Cambrian, MacLean Brook, Cape Breton Island, Nova Scotia.*Leptoplastus ovatus* Angelin

Hypotypes 11143, 11144

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 84, pl. 4, figs. 1, 2.
MacNeil Formation, Upper Cambrian, MacLean Brook, Cape Breton Island, Nova Scotia.

Arthropoda

Leptoplastus sp.

Fig. spec. 11207

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 85, pl. 4, fig. 6.

MacNeil Formation, Upper Cambrian, MacLean Brook, Cape Breton Island, Nova Scotia.

Levisella affinis see *Dikelocephalus affinis*

Levisella oweni see *Dikelocephalus oweni*

Levisella oweni (Billings)

Hypotype 7663

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 469, pl. 61, fig. 11.

Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.

Loganellus belli see *Dikelocephalus belli* and *D. pygidium*

Loganellus logani see *Olenus* ? *logani*

Loganellus ? *unisulcatus* (Raymond)

Hypotype 838

Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 248, pl. 38, fig. 5.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

Loganopeltis zenkeri see *Conocephalites zenkeri*

Loganopeltoides zenkeri (Billings)

Hypotype 7685

Rasetti, F., 1945, Am. J. Sci., vol. 243, p. 46, pl. 1, fig. 2.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

Lotagnostus trisectus (Salter)

Hypotypes 11106–11112

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 70, pl. 1, figs. 6–12.

MacNeil Formation, Upper Cambrian, Spruce Brook, East Bay, 3/4 mile upstream from Eskasoni road; north shore of East Bay; and on first tributary on east side of McLeod Brook south of present Boisdale road, 1/2 mile upstream from mouth, Cape Breton Island, Nova Scotia.

Loxopeltis problematica Rasetti

Holotype 13577; paratype 13578

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 968, pl. 119, figs. 3, 4.

Mount Whyte Formation, Middle Cambrian, beds W7 (talus) and W28fg, Mount Field, British Columbia.

Meneviella venulosa (Salter)

Hypotypes 12047–12052

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 108, pl. 16, figs. 2–7.

Middle Cambrian, Highland Cove and first small bay east of tip of McLeod Point, Trinity Brook and east bank Manuels River, Conception Bay, Newfoundland.

Menocephalus globosus Billings

Syntypes 884a, d, g, k

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 317, figs. 17–19.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 408, figs. 388a–c.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 237, figs. 267a–c.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Onchonotus globosus*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 249, pl. 38, figs. 29, 30 [holotype 884g, paratypes 884a, d, k].

Menocephalus sedgwicki Billings

Syntype 885

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 316.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 407.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

= "*Menocephalus*" *sedgwicki*, Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 258, pl. 36, fig. 56.*Meteoraspis borealis* Lochman

Hypotypes 9460–9463

Kindle, C.H., 1948, Am. J. Sci., vol. 246, p. 446, pl. 1, figs. 8–13.

Upper Cambrian, Murphy Creek, Gaspé, Quebec.

Meteoraspis laticephalus Kobayashi

Holotype 11964

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 188, pl. 15, figs. 34a, b.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Nevadia addyensis Okulitch

Holotype 10004

Okulitch, V.J., 1951, J. Pal., vol. 25, No. 3, p. 406, pl. 62, figs. 1, 2.

Addy quartzite, Lower Cambrian, near Addy, Washington, U.S.A.

Oidalagnostus cf. *O. trispiniger* Westergard

Hypotypes 12164–12167

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 80, pl. 7, figs. 17–20.

Middle – Upper Cambrian transition beds, Manuels Brook, Conception Bay, Newfoundland.

Olenaspella evansi (Kobayashi)

Hypotype 11941

Wilson, J.L., 1956, J. Pal., vol. 30, No. 6, p. 1344, pl. 146, fig. 20.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

See *Parabolinella* (?) *evansi**Olenaspella evansi* (Kobayashi)

Hypotype 15151

Palmer, A.R., 1962, U.S. Geol. Surv., Prof. Paper 374–F, p. 37, pl. 5, fig. 5.

McKay Group, Upper Cambrian, north of Jubilee Mountain, British Columbia.

Olenellid trilobite, undescribed genus

Fig. spec. 16858

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62–14, p. 6, pl. 1, fig. 3.

Early Cambrian, about 2 miles southwest of Mount Simla, Jasper Park, Alberta.

Olenellus gilberti Meek

Plastotype 16862

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62–14, p. 6, pl. 1, fig. 8.

Peyto limestone, Early Cambrian, east slope of Mount Odaray, Yoho Park, British Columbia.

Olenellus gilberti Meek

Hypotype 16863

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62–14, p. 6, pl. 1, fig. 9.

Early Cambrian, 2.8 miles southwest of Rogers Lake, Rabbit River map-area, British Columbia.

Arthropoda

Olenellus cf. gilberti Meek

Hypotypes 415, 424b, c, e

Walcott, C.D., 1910, Smithsonian Misc. Coll., vol. 53, No. 6, pl. 41, figs. 1 [415], 2 [424e], 3 [424b], 4 [424c].

Lower Cambrian, Bic, Quebec.

Olenellus logani Walcott

Syntypes 414, a, b, d

Walcott, C.D., 1910, Smithsonian Misc. Coll., vol. 53, No. 6, p. 333, pl. 41, figs. 5, a, b [414b], 6 [414].

Lower Cambrian, L'Anse au Loup, Labrador, Newfoundland.

Olenellus mackenziensis Kobayashi

Holotype and paratype 8716

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 161, pl. 21, fig. 32.

Lower Cambrian, Clark Mountain, District of Mackenzie.

Olenus? logani Devine

Plastosyntypes 903, a; syntypes 886, a

Devine, T., 1863, Can. Naturalist Geol., vol. 8, p. 95, figs. 1, 2.

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 201, figs. 185, 186.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 201, figs. 185, 186.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

=*Loganellus quebecensis*, Devine, T., 1863, Can. Naturalist Geol., vol. 8, p. 95.

=*Loganellus logani*, Rasetti, F., 1944, J. Pal., vol. 18, p. 247, pl. 38, figs. 13 [paratype 886], 14 [plastosyntype 903].

Onchocephalites laevis Rasetti

Holotype 13556; paratypes 13557, a

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 962, pl. 121, figs. 5-9.

Mount Whyte Formation, Middle Cambrian, beds W28fg, Mount Field, British Columbia.

Onchocephalus maior Rasetti

Hypotype 13558

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 962, pl. 120, fig. 11.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Onchocephalus skapta (Walcott)

Hypotype 13559

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 963, pl. 120, fig. 9.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Onchocephalus cf. O. skapta (Walcott)

Hypotype 13560

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 963, pl. 120, fig. 10.

Mount Whyte Formation, Middle Cambrian, beds, W28fg, Mount Field, British Columbia.

Onchonotus globosus see *Menocephalus globosus*

Onchonotus ovoidea Kobayashi

Holotype 11965

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 188, pl. 15, figs. 35a, b.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Onchonotus ? *sedgwicki* (Billings)

Hypotypes 7669, 7670

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 470, pl. 61, figs. 17–19.

Levis conglomerate, Upper Cambrian, Levis, Quebec.

Oryctocephalites resseri Rasetti

Hypotypes 13547, a

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 960, pl. 119, figs. 1, 2.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Orygmaspis microphthalmus Kobayashi

Holotype 11946

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 185, pl. 15, fig. 9.

McKay Group, Upper Cambrian, west of Leancoil, British Columbia.

Paedeumias robsonensis Burling

Holotype 5272

Burling, L.D., 1916, Ottawa Naturalist, vol. 30, p. 53, pl. 1.

Lower Cambrian, Mount Robson region, British Columbia.

Paedeumias transitans Walcott

Syntypes 416

Walcott, C.D., 1910, Smithsonian Misc. Coll., vol. 53, No. 6, p. 305, pl. 41, fig. 7.

Lower Cambrian, L'Anse au Loup, Labrador, Newfoundland.

Parabolina dawsoni Matthew

Hypotypes 11139–11141

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 80, pl. 3, figs. 11–13.

MacNeil Formation, Upper Cambrian, Spruce and MacNeil Brooks, Cape Breton Island, Nova Scotia.

Parabolina ? *incerta* Rasetti

Holotype 7659

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 471, pl. 61, fig. 16.

Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.

Parabolina spinulosa (Wahlenberg)

Hypotypes 11135–11138

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 79, pl. 3, figs. 7–10.

MacNeil Formation, Upper Cambrian, MacNeil Brook 1/10 mile below MacKeigen road, Cape Breton Island, Nova Scotia.

Parabolinella (?) *evansi* Kobayashi

Syntypes 15147–15150

Kobayashi, T., 1936, Jap. J. Geol. Geog., vol. 13, Nos. 1–2, p. 92, pl. 15, figs. 7–10.

McKay Group, Upper Cambrian, north of Jubilee Mountain, British Columbia.

= *Olenaspella evansi*, Palmer, A.R., 1962, U.S. Geol. Surv., Prof. Paper 374–F, p. 37, pl. 5, figs. 4 [15147], 7 [15148], [lectotype 15150].*Parabolinella evansi* Kobayashi

Hypotypes 11957–11961

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 186, pl. 16, figs. 11–15.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

= *Olenaspella evansi*, Wilson, J.L., 1956, J. Pal., vol. 30, Nos. 6, p. 1344, pl. 146, fig. 21 [lectotype 11958].

Arthropoda

Parabolinella ? *punctolineata* Kobayashi

Holotype 8721; paratype 8721a

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 166, pl. 21, figs. 19; 20.

Upper Cambrian, Jones Ridge, north of Tatonduk River, Yukon-Alaska boundary.

Parabolinella (?) *quadrata* Matthew

Syntypes 7342, a

Matthew, G., 1900, Bull. Natural Hist. Soc., New Brunswick, vol. 4, p. 411, pl. 18, fig. 7.

Lower Ordovician and (?) Upper Cambrian [McLeod Brook Formation], McLeod Brook, Cape Breton Island, Nova Scotia.

=*Parabolinella triarthra*, Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 82.

Paradoxides *abenacus* Matthew

Hypotypes 11118–11122

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 74, pl. 1, fig. 18; pl. 2, figs. 1–4.

MacMullin Formation, Middle Cambrian, south shore St. Andrew Channel, Cape Breton Island, Nova Scotia.

Paradoxides *bennetti* Salter

Hypotype 13086

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 117, pl. 25.

Middle Cambrian, on west shore 1/2 mile south of harbour head at Branch, St. Marys Bay, Newfoundland.

Paradoxides *davidis* Salter

Hypotypes 11124–11126

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 76, pl. 2, figs. 6–8.

Trout Brook Formation, Middle Cambrian, Trout Brook, Cape Breton Island, Nova Scotia.

Paradoxides *davidis* Salter

Hypotypes 13079–13085, 13088

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 115, pl. 19, fig. 10; pl. 20; pl. 21; pl. 22, figs. 1–5.

Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Paradoxides *decorus* Billings

Plastotypes 299, a

Billings, E.,

1872, Can. Naturalist Quart. J. Sci., n. ser., vol. 6, p. 476.

1874, Geol. Surv., Canada, Palaeoz. Fossils, vol. 2, pt. 1, p. 75.

Middle Cambrian, Chapel Arm, Trinity Bay, Newfoundland.

Paradoxides *eteminicus* Matthew

Hypotype 11117

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 73, pl. 1, fig. 17.

Trout Brook Formation, Middle Cambrian, Grand Mira North Road, 1.13 miles south of Salmon River Road, Cape Breton Island, Nova Scotia.

Paradoxides *eteminicus* Matthew

Hypotypes 13089–13094, 13114

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 114, pl. 19, figs. 3–9.

Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Paradoxides forchhammeri Angelin

Hypotype 11127

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 77, pl. 2, figs. 9, 10.
 MacLean Brook Formation, Middle Cambrian, south side Campbelldale Road 100 yards
 east of Grand Mira South Road, Cape Breton Island, Nova Scotia.

Paradoxides freboldi Hutchinson

Holotype 13098; paratypes 13099–13104

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 116, pl. 23, figs. 4–10.
 Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Paradoxides hicksi Salter

Hypotype 11123

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 76, pl. 2, fig. 5.
 Trout Brook Formation, Middle Cambrian, Canoe Lake Brook, Cape Breton Island, Nova
 Scotia.

Paradoxides hicksi Salter

Hypotypes 13065–13075

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 113, pl. 18, figs. 4–12;
 pl. 19, figs. 1, 2.
 Middle Cambrian, limestone nodules in small bay about 3/4 mile north of head of bay and
 in small bay near head of arm, west shore of Chapel Arm, Trinity Bay; west shore of
 Bull Island Point, St. Marys Bay; first small bay east of tip of McLeod Point, Trinity
 Bay; and west bank of Manuels River, Conception Bay, Newfoundland.

Paradoxides lamellatus Hartt in Dawson

Hypotypes 13076–13078

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 113, pl. 18, figs. 1–3.
 Middle Cambrian, 3/4 mile northwest of stream mouth at Cavendish, northeast shore of
 Cavendish Bay and north shore of Island Cove, Trinity Bay, Newfoundland.

Paradoxides parvoculus Howell

Hypotypes 13115–13120

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 118, pl. 24, figs. 1–6.
 Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Paradoxides cf. *P. rugulosus* Corda

Hypotypes 13095–13097

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 115, pl. 23, figs. 1–3.
 Middle Cambrian, east and west banks Manuels River, Conception Bay, Newfoundland.

Paradoxides tenellus Billings

Plastotypes 298, a, b

Billings, E.,

1872, Can. Naturalist Quart. J. Sci., n. ser., vol. 6, p. 476, fig. 12 [298].

1874, Geol. Surv., Canada, Palaeoz. Fossils, vol. 2, pt. 1, p. 74, fig. 43.

Middle Cambrian, Chapel Arm, Trinity Bay, Newfoundland.

Parapoulsenia lata Rasetti

Holotype 13561; paratype 13562

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 964, pl. 120, figs. 4–7.
 Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Parapoulsenia sp. *P. lata* Rasetti

Hypotype 13563

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 964, pl. 120, fig. 8.
 Mount Whyte Formation, Middle Cambrian, beds W28fg, Mount Field, British Columbia.

Arthropoda

Peltura scarabaeoides (Wahlenberg)

Hypotypes 11167–11172

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 93, pl. 5, figs. 1–6.

MacNeil Formation, Upper Cambrian, Spruce Brook, East Bay, 3/4 mile upstream from Eskasoni Road; north shore East Bay; and MacNeil Brook 3/4 mile upstream from MacKeigan road, Cape Breton Island, Nova Scotia.

Perimetopus arenosus see *Solenopleura arenosa*

Perimetopus secundus see *Solenopleura arenosa*

Peronopsis cf. *fallax* var. *concinus* (Matthew)

Hypotypes 11102, 11103

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 69, pl. 1, figs. 2, 3.

Trout Brook Formation, Middle Cambrian, Canoe Lake Brook, Cape Breton Island, Nova Scotia.

Peronopsis fallax subsp. *P. depressa* Westergard

Hypotypes 12117–12120

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 70, pl. 5, figs. 8–11.

Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Peronopsis howelli Hutchinson

Holotype 12134; paratype 12135

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 70, pl. 5, figs. 12a, b, 13.

Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Peronopsis (Acadagnostus) inarmata Hutchinson

Holotype 12112; paratype 12113

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 71, pl. 5, figs. 14, 15.

Chamberlain's Brook Formation, Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Peronopsis (?) *latimarginatus* Kobayashi

Holotype 11998; hypotype 11999

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 169, pl. 15, figs. 30, 31a.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Peronopsis (Acadagnostus) matthewi Hutchinson

Holotype 12127; paratypes 12128–12130

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 71, pl. 5, figs. 16–20.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Peronopsis cf. *P. quadrata* (Tullberg)

Hypotypes 12131–12133

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 69, pl. 5, figs. 5–7.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Peronopsis (Acadagnostus) scutalis (Salter in Hicks)

Hypotypes 12121–12124, 12126

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 72, pl. 6, figs. 1–5.

Middle Cambrian, Highland Cove, Trinity Bay and west bank Manuels River, Conception Bay, Newfoundland.

Peronopsis trilobata (Matthew)

Hypotypes 12110, 12111

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 69, pl. 5, figs. 3, 4.

Middle Cambrian, east bank Manuels River, Conception Bay, Newfoundland.

Phalacroma bairdi Hutchinson

Holotype 13055; paratypes 13056, 13057

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 90, pl. 11, figs. 9–11.
Upper Cambrian, Manuels River, Conception Bay, Newfoundland.*Phalacroma? howsei* Hutchinson

Holotype 13058; paratypes 13059–13062

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 91, pl. 11, figs. 12–16.
Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.*Phalacroma nudum* (Beyrich)

Hypotypes 13027–13032

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 90, pl. 11, figs. 3–8.
Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.*Phalacroma? sp.*

Fig. spec. 13042

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 89, pl. 12, fig. 1.
Middle Cambrian, Highland Cove, Trinity Cove, Newfoundland.*Phoreotropis? marginata* Rasetti

Holotype 7661; paratypes 7661a–d

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 471, pl. 61, figs. 28, 29.
Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.*Plaguira cercops* (Walcott)

Hypotypes 13564, 13565

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 964, pl. 119, figs. 9–11.
Mount Whyte Formation, Middle Cambrian, beds W28f, Mount Field, British Columbia; beds W20d, Eiffel Peak, Alberta.*Platycolpus capax* (Billings)

Hypotype 835f

Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 250, pl. 39, fig. 11.
Levis conglomerate, Upper Cambrian, Levis, Quebec.[Note: Specimens 835c, e primary types of *Bathyurus capax*, collected by R. Bell; specimen 835f collected by T.C. Weston, thus a hypotype rather than part of the syntypic suite.]*Platycolpus dubuis* see *Bathyurus dubius**Platycolpus marcoui* Clark

Hypotype 13267

Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 250, pl. 39, fig. 16.
Levis conglomerate, Upper Cambrian, Levis, Quebec.*Platydiamesus depressus* Raymond

Hypotype 7680

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 472, pl. 61, fig. 30.
Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.*Platydiamesus levisensis* Rasetti

Hypotype 7664

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 472, pl. 61, fig. 15.
Levis conglomerate, Upper Cambrian, Levis, Quebec.*Plethometopus armatus* see *Bathyurus armatus*

Arthropoda

Plethometopus laticeps Rasetti

Holotype 13268

Rasetti, F., 1944, J. Pal., vol. 18, No. 3, p. 251, pl. 39, fig. 26.

Levis conglomerate, Upper Cambrian, North Ridge, Levis, Quebec.

Plethopeltis armatus see *Bathyrurus armatus*

Plethopeltis robustus Kobayashi

Syntypes 11966, 11967

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 178, pl. 15, figs. 21, 22.

McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Pleurectinium bifurcatum (Illing)

Hypotypes 13045, 13046

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 67, pl. 4, figs. 15a, b, 16a, b.

Middle Cambrian, west bank Manuels River, Conception Bay, Newfoundland.

Pleurectinium granulatum (Barrande)

Hypotypes 12103–12107

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 66, pl. 4, figs. 10–14.

Middle Cambrian, west shore Chapel Arm and first small bay east of tip of McLeod Point, Trinity Bay and east bank Manuels River, Newfoundland.

Pleurectinium tuberculatum (Illing)

Hypotypes 12108, 12109

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 67, pl. 5, figs. 1, 2.

Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.

Poulsenia columbiana Rasetti

Holotype 13566; paratype 13567

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 965, pl. 121, figs. 10, 11.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Protypus reticulatus Rasetti

Holotype 9487; paratypes 9487a, b

Rasetti, F., 1948, J. Pal., vol. 22, No. 1, p. 23, pl. 6, figs. 14–17.

Lower Cambrian, Bic, Quebec.

Pseudagnostus? acutus see *Homagnostus acutus*

Pseudagnostus canadensis see *Aagnostus canadensis*

Pseudagnostus latus Kobayashi

Syntypes 11989–11992

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 171, pl. 16, figs. 23, 24, 40, 41.

McKay Group, Upper Cambrian, west of Harrogate and Van Home Range, British Columbia.

Pseudatops cf. *P. reticulatus* (Walcott)

Hypotype 12009

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 94, pl. 12, fig. 12.

Lower Cambrian, Brigus South Point, Conception Bay, Newfoundland.

Pseudolisania hisingeri see *Dikelocephalus hisingeri*

Pseudosaukia sesostris see *Dikelocephalus sesostris*

Pterocephalia brevifrons Kobayashi

Holotype 11938

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol., 15, Nos. 3-4, p. 178, pl. 15, figs. 17a, b.
McKay Group, Upper Cambrian, Northwest Van Horne Range, British Columbia.*Pterocephalia* sp.

Fig. specs. 16870, 16871

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 10, pl. 3, figs. 15, 16.
McKay Group, from about 2,500 feet below base of upper unit, Upper Cambrian, near head
of Tanglefoot Creek, lat. 49°40'N., long. 115°21'W., British Columbia.*Ptychagnostus atavus* (Tullberg)

Hypotypes 12187-12201

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 83, pl. 8, figs. 16-22;
pl. 9, figs. 1-8.
Middle Cambrian, on southeast shore 2,000 feet north of mouth of brook, Chapel Am,
Trinity Bay, Newfoundland.*Ptychagnostus ciceroideus* (Matthew)

Hypotypes 12202-12209, 13014, 13015, 13049

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 85, pl. 9, figs. 20-23;
pl. 10, figs. 1-8.
Middle Cambrian, first small bay east of tip of McLeod Point, Highland Cove, Trinity Bay
and large northward bend about 3 miles above mouth Branch River, St. Marys Bay,
Newfoundland.*Ptychagnostus grandis* Hutchinson

Holotype 12177; paratypes 12178-12182

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 81, pl. 8, figs. 6-11.
Middle Cambrian, first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.*Ptychagnostus (Triplagnostus) hybridus* (Broegger)

Hypotypes 12183-12186

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 82, pl. 8, figs. 12-15.
Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.*Ptychagnostus punctuosus* (Angelin)

Hypotypes 13016-13023, 13047, 13048

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 84, pl. 9, figs. 9-19.
Middle Cambrian, Highland Cove, Trinity Bay and east and west banks of Manuels River,
Conception Bay, Newfoundland.*Ptychagnostus (Triplagnostus) stenorrachis* (Groenwall)

Hypotypes 12171-12176

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 80, pl. 8, figs. 1-5.
Middle Cambrian, Highland Cove, Trinity Bay, Newfoundland.*Ptychoparella adamsi* see *Ptychoparia adamsi**Ptychoparella billingsi* Resser

Holotype 502

Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 49, pl. 8, figs. 34-37.
Lower Cambrian, Highgate Springs, Vermont, U.S.A.

Arthropoda

Ptychoparella kindlei Resser

Holotype 431a

Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 50, pl. 8, figs. 40, 41.

Parker Formation, Lower Cambrian, 1 1/2 miles east of Swanton, Vermont, U.S.A.

[Note: probably one of two specimens basis of composite *Anomocare tucer*, Matthew, G.F., 1897, Trans. Roy. Soc. Can., ser. 2, vol. 3, sec. 4, p. 198, pl. 4, fig. 8; as specimen collected by Billings, 1867, it cannot be a primary type of *Conocephalites tucer* Billings, 1861.]

Ptychoparella tucer (Billings)

Hypotype 431

Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 50, pl. 8, figs. 42, 43 [holotype 431].

Parker Formation, Lower Cambrian, 1 1/2 miles east of Swanton, Vermont, U.S.A.

[Note: as specimen collected by Billings, 1867, it cannot be the original of Figure 14, 1861, *Conocephalites tucer* Billings; probably one of two specimens basis of composite *Anomocare tucer*, Matthew, G.F., 1897, Trans. Roy. Soc. Can., ser. 2, vol. 3, sec. 4, p. 198, pl. 4, fig. 8.]

Ptychoparella vulcana (Billings)

Hypotype 432

Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 50, pl. 8, figs. 38, 39 [holotype 432].

Winooski? Formation, Lower Cambrian, 1 mile east of Highgate Springs, Vermont, U.S.A.

[Note: although closely resembling the original of *Conocephalites vulcanus* Billings, Figure 17, 1861, specimen part of series collected by Billings in 1867.]

Ptychoparia adamsi (Billings)

Hypotype 429

Matthew, G.F., 1897, Trans. Roy. Soc. Can., ser. 2, vol. 3, sec. 4, pp. 180, 199, pl. 4, fig. 9.

Lower Cambrian [Winooski? Formation], 1 mile east of Highgate Springs, Vermont, U.S.A.

=*Ptychoparella adamsi*, Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 49, pl. 8, figs. 31–33 [holotype 429].

[Note: as specimen collected by Billings, 1867, it cannot be the original of Figure 15, 1861, *Conocephalites adamsii* Billings.]

Ptychoparia bretonensis Hutchinson

Holotype 11177; paratypes 11178–11181

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 97, pl. 5, figs. 12–16.

MacMullin Formation, Middle Cambrian, south shore St. Andrew Channel, Cape Breton Island, Nova Scotia.

Ptychoparia miser see *Conocephalites miser*

Ptychopleura brevifrons Kobayashi

Holotype 8719; paratype 8719a

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 165, pl. 21, figs. 7, 8.

Upper Cambrian, Jones Ridge north of Tatonduk River, Yukon-Alaska boundary.

Redlichia? sp.

Fig. spec. 8715

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 162, pl. 21, fig. 24.

Lower Cambrian, Cap Mountain Ridge, District of Mackenzie.

Richardsonella convexa see *Dikelocephalus cristatus* and *D. pauper*

Richardsonella cristata see *Dikelocephalus cristatus*

Richardsonella megalops see *Dikelocephalus megalops*

Saukiella selecta see *Dikelocephalus selectus**Schistometopus convexus* Rasetti

Hypotypes 13568, 13569, a, b

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 965, pl. 121, figs. 14–17.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Schistometopus? *minor* Rasetti

Holotype 13570; paratype 13571

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 966, pl. 120, figs. 13–15.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Serrodiscus bellimarginatus (Shaler and Foerste)

Hypotypes 12062, 12063

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 58, pl. 1, figs. 1a–e, 2.

Lower Cambrian, Broad Cove, Smith Sound and south shore of Heart's Delight Harbour, Trinity Bay, Newfoundland.

Serrodiscus sp.

Fig. spec. 12064

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 58, pl. 1, figs. 3a, b.

Lower Cambrian, south side Hopeall Head, Trinity Bay, Newfoundland.

Solenopleura arenosa (Billings)

Hypotypes 428, a

Matthew, G.F., 1897, Trans. Roy. Soc. Can., ser. 2, vol. 3, sec. 4, p. 199, pl. 4, fig. 10 [428a].

Lower Cambrian [Mallet or Dunham Formation], near International Boundary on road from St. Armand to Highgate Springs, Vermont, U.S.A.

=*Perimetopus arenosus*, Resser, C.E., 1937, J. Pal., vol. 11, No. 1, p. 51, pl. 8, figs. 50, 51 [holotype 428a].=*Perimetopus secundus*, Resser, C.E., 1937, *ibid.*, vol. 11, No. 1, p. 51, pl. 8, fig. 49 [holotype 428].[Note: as both specimens collected by Billings, 1867, they cannot be the primary types of *Conocephalites arenosus* Billings, 1861.]*Solenopleura bretonensis* Matthew

Hypotypes 11184, 11185

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 99, pl. 6, figs. 1, 2.

Dugald Formation, Middle Cambrian, Dugald Brook, Cape Breton Island, Nova Scotia.

Solenopleura communis Billings

Plastotype 285

Billings, E.,

1872, Can. Naturalist Quart. J. Sci., n. ser., vol. 6, p. 474.

1874, Geol. Surv., Canada, Palaeoz. Fossils, vol. 2, pt. 1, p. 72.

Matthew, G.F., 1887, Trans. Roy. Soc. Can., vol. 4, sec. 4, p. 155, figs. 4, a, b.

Middle Cambrian, Chapel Arm, Trinity Bay, Newfoundland.

Sphaerophthalmoides ornatus Hutchinson

Holotype 11159; paratypes 11160–11166

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 91, pl. 4, figs. 18–25.

MacNeil Formation, Upper Cambrian, Spruce Brook, East Bay, 3/4 mile upstream from Eskansoni road, Cape Breton Island, Nova Scotia.

Arthropoda

Sphaerophthalmus alatus (Boeck)

Hypotypes 11153–11156

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 88, pl. 4, figs. 12–15.
MacNeil Formation, Upper Cambrian, MacNeil Brook, 3/4 mile upstream from MacKeigan road, Cape Breton Island, Nova Scotia.

Sphaerophthalmus major Lake

Hypotypes 11157, 11158

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 90, pl. 4, figs. 16, 17.
MacNeil Formation, Upper Cambrian, MacNeil Brook, 3/4 mile upstream from MacKeigan road, Cape Breton Island, Nova Scotia.

Spinagnostus franklinensis Howell

Paratypes 6454a–d, 6455

Howell, B.F.,
1935, J. Pal., vol. 9, No. 3, p. 219.
1937, Bull. Geol. Soc. Amer., vol. 48, p. 1161.
St. Albans Formation, Middle Cambrian, 3 miles south-southwest of St. Albans and Adams Pasture just west of St. Albans, Franklin co., Vermont, U.S.A.

Strenuella strenua (Billings)

Hypotypes 11128–11134

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 78, pl. 2, fig. 11; pl. 3, figs. 1–6.
MacCodrum Formation, Lower Cambrian, east end Victoria Bridge, Mira River, Cape Breton Island, Nova Scotia.

Taenicephalus longifrons Kobayashi

Syntypes 11940, 11941; hypotype 11942

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 184, pl. 16, figs. 25–27.
Wilson, J.L., 1956, J. Pal., vol. 30, No. 6, p. 1346, pl. 146, figs. 18, 19.
McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Taenicephalus megalops Kobayashi

Syntypes 12000–12002; hypotype 12003

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3–4, p. 183, pl. 16, figs. 8–10, 35.
Wilson, J.L., 1956, J. Pal., vol. 30, No. 6, p. 1346, pl. 146, figs. 16, 17.
McKay Group, Upper Cambrian, west of Harrogate, British Columbia.

Tatonaspis levisensis Rasetti

Hypotype 7665

Rasetti, F., 1945, J. Pal., vol. 19, No. 5, p. 474, pl. 62, fig. 14.
Levis conglomerate, Upper Cambrian, Levis, Quebec.

Tomagnostus fissus (Lundgren MS; Linnarsson)

Hypotypes 12150–12154

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 76, pl. 7, figs. 1–5.
Middle Cambrian, west shore Chapel Arm, Trinity Bay and west bank Manuels River, Conception Bay, Newfoundland.

Tomagnostus perrugatus (Groenwall)

Hypotypes 12155–12158

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 77, pl. 7, figs. 6–9.
Middle Cambrian, north shore Highland Cove and first small bay east of tip of McLeod Point, Trinity Bay, Newfoundland.

Triangulaspis vigilans (Matthew)

Hypotypes 12083, 12084

Hutchinson, R.D., 1962, Geol. Surv., Canada, Bull. 88, p. 63, pl. 3, figs. 10-12.

Lower Cambrian, small quarry about 1 1/2 miles south of Manuels Station and Brigus South Point, Conception Bay, Newfoundland.

Tricrepicephalus murphyi Kindle

Holotype 9456; paratype 9457

Kindle, C.H., 1948, Am. J. Sci., vol. 246, p. 448, pl. 1, figs. 2, 3.

Upper Cambrian, Murphy Creek, Gaspé, Quebec.

Tricrepicephalus rusticus Kindle

Holotype 9458; paratype 9459

Kindle, C.H., 1948, Am. J. Sci., vol. 246, p. 447, pl. 1, figs. 4, 6.

Upper Cambrian, Murphy Creek, Gaspé, Quebec.

Tricrepicephalus sp.

Fig. specs. 16853, 16854

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 8, pl. 2, figs. 3, 7.

Lynx Formation, about 850 feet above base, Upper Cambrian, near Snake Indian River, Jasper Park, Alberta.

Trilobite pygidium. genus undetermined

Fig. spec. 11205

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 105, pl. 7, fig. 13.

MacMullin Formation, Middle Cambrian, east bank Indian River, 9/10 mile below mouth of Dugald Brook, Cape Breton Island, Nova Scotia.

Trilobites [*Olenoides serratus* (Rominger)]

Hypotype 15174

Baird, D.M.,

1960, "A Guide to Geology", Dept. Northern Affairs and National Res., National Parks Br., p. 22.

1962, Geol. Surv., Canada, Misc. Rept. 4, p. 43.

Norford, B.S., 1962, *ibid.*, Paper 62-14, p. 8, pl. 2, fig. 13.

Middle Cambrian, Yoho National Park, British Columbia.

Triplagnostus cf. *lomondensis* Howell

Hypotype 11105

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 70, pl. 1, fig. 5.

Trout Brook Formation, Middle Cambrian, Canoe Lake Brook, Cape Breton Island, Nova Scotia.

Undetermined pygidium No. 1

Fig. spec. 13546

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 960, pl. 120, fig. 12.

Mount Whyte Formation, Middle Cambrian, beds W7f, Mount Field, British Columbia.

Undetermined pygidium No. 2

Fig. spec. 13572

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 967, pl. 120, fig. 16.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Undetermined pygidium No. 3

Fig. spec. 13573

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 967, pl. 120, fig. 17.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Arthropoda

Undetermined pygidium No. 4

Fig. spec. 13574

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 867, pl. 120, fig. 18.

Mount Whyte Formation, Middle Cambrian, beds W28fg, Mount Field, British Columbia.

Undetermined pygidium No. 5

Fig. specs. 13575, a, 13576

Rasetti, F., 1957, J. Pal., vol. 31, No. 5, p. 967, pl. 120, figs. 19-21.

Mount Whyte Formation, Middle Cambrian, beds W7ef, Mount Field, British Columbia.

Vanuxemella nortia Walcott

Hypotype 16865

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 8, pl. 2, fig. 10.

Ross Lake Shale, Middle Cambrian, near Ross Lake, Banff Park, Alberta.

Wilbernia(?) *hunterensis* Kobayashi

Holotype 11978

Kobayashi, T., 1938, Jap. J. Geol. Geog., vol. 15, Nos. 3-4, p. 189, pl. 15, fig. 5.

McKay Group, Upper Cambrian, Mount Hunter, British Columbia.

Yukonaspis kindlei Kobayashi

Holotype 8718; paratypes 8718a, b

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 164, pl. 21, figs. 3-6.

Upper Cambrian (?), Squaw Mountain north of Tatonduk River, Yukon-Alaska boundary.

Zacanthoides cf. *Z. cnopus* Walcott

Hypotypes 16867-16869

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 8, pl. 2, figs. 15-17.

Middle Cambrian, Windsor Mountain, southwest Alberta.

Ordovician-Carboniferous

Achatella achates see *Dalmanites achates*

Achatella billingsi Sinclair

Holotype 13275

Sinclair, G.W., 1944, Trans. Roy. Can. Inst., vol. 25, pt. 1, No. 53, p. 17, pl. 1, figs. 1, 2.

Middle Trenton, Middle Ordovician, old quarry just north and east of Lakefield, Ontario.

Achatella sp.

Fig. spec. 8878

Cooper, G.A., and Kindle C.H., 1936, J. Pal., vol. 10, No. 5, p. 371, pl. 53, fig. 30.

Whitehead Formation, Upper Ordovician, Priest's Road, Percé, Quebec.

Acidaspis horani Billings

Holotype 1785

Billings, E., 1857, Geol. Surv., Canada, Rept. Prog. 1853-56, p. 341.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 190, fig. 190.

Middle Ordovician, near Cape Tourment, Quebec.

Acidaspis perarmata Whiteaves

Holotype 5813

Whiteaves, J.F.,

1891, Can. Rec. Sci., vol. 4, p. 300, pl. 3, fig. 6.

1906, Geol. Surv., Canada, Palaeoz. Fossils, vol. 3, pt. 4, p. 289, pl. 42, fig. 3.

Stearn, C.W., 1956, *ibid.*, Mem. 281, p. 123, pl. 16, fig. 9.

Middle Silurian [Interlake Group], Long Point, east shore Lake Winnipegosis, Manitoba.

Acrolichas jukesii see *Lichas jukesii*

Agnostus fabius Billings

Syntypes 704, a-g,

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 298, fig. 289 [704c, d, g].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 298, fig. 289.

Middle Ordovician, 4 miles northeast of Portland Creek, Newfoundland.

Agnostus galba Billings

Syntypes 689, a-e

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 297, fig. 288 [689, b, e].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 297, fig. 288.

Middle Ordovician, Table Head, Newfoundland.

Agnostus subobesus Kobayashi

Syntypes 8717, a

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 161, pl. 21, figs. 1, 2.

Upper Cambrian or Lower Ordovician, Jones Ridge north of Tatonduk River, Yukon-Alaska boundary.

=*Geraagnostus subobesus*, Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 474.

Arthropoda

Amechilus tuberculatus Kobayashi

Holotype 12715

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 459, pl. 6, fig. 11.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Amphilichas? anticostiensis see *Lichas canadensis*

Amphilichas canadensis see *Lichas canadensis*

Amphilichas minganensis see *Lichas minganensis*

Amphilichas shallopenis Twenhofel

Holotype 2546

Twenhofel, W.H., 1928, Geol. Surv., Canada, Mem. 154, p. 328, pl. 57, fig. 6.

Jupiter Formation, Middle Silurian, Shallop River, Anticosti Island, Quebec.

Amphion barrandei Billings

Syntypes 681, a-d, 682, a, b

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 288, figs. 277a [681c], b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 288, figs. 277a, b.

Divisions K-N [Table Head], Middle Ordovician, Point Rich and Table Head, Newfoundland.

=*Pseudomera barrandei*, Holliday, S., 1942, J. Pal., vol. 16, No. 5, p. 474, pl. 73, figs. 8 [681b], 10 [682].

Whittington, H.B., 1961, *ibid.*, vol. 35, No. 5, p. 918, pl. 100, figs. 6, 10 [681a], 7 [681], 8 [lectotype 681b].

Amphion canadensis Billings

Syntype 1094b

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 381, fig. 12b.

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 133, fig. 69.

Middle Ordovician [Mingan Formation], Mingan Islands, Quebec.

Amphion canadensis Billings

Hypotype 1094a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 288, fig. 278.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 288, fig. 278.

Middle Ordovician [Mingan Formation], Mingan Islands, Quebec.

=*Pliomerope canadensis*, Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 70, pl. 11, fig. 18 [syntype].

Whittington, H.B., 1961, J. Pal., vol. 35, No. 5, p. 917, pl. 101, figs. 12, 16.

[Note: probably one of the larger specimens noted by Billings in original description.]

Amphion cayleyi see *Amphion pygidium*

Amphion convexus Billings

Syntypes 833, a-d

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 322.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 322.

Lower Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

Amphion julius Billings

Syntypes 680, a, b

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 290, fig. 279 [composite?].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 290, fig. 279.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

= *Colobinion julius*, Whittington, H.B., 1961, J. Pal., vol. 35, No. 5, p. 920, pl. 102, fig. 18 [holotype 680].*Amphion salteri* ? Billings

Hypotype 515

Billings, E., 1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 352, fig. 339.

Beekmantown, Lower Ordovician, Oxford tp., Ontario.

Amphion pygidium

Fig. spec. 825, a [mould and cast]

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 322, fig. 29.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 413, fig. 398.

Lower Ordovician(?), Levis, Quebec.

= *Amphion cayleyi*, Logan, W.E., 1863, "Geology of Canada", ibid., Rept. Prog., p. 413, fig. 398.*Amphion westoni* Billings

Syntypes 824a, c, f, h, i, k, l

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 321, figs. 307a [824a], b [824f].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 321, figs. 307a, b.

Lower Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

= *Ectenonotus westoni*, Whittington, H.B., 1961, J. Pal., vol. 35, No. 5, p. 915, pl. 99, figs. 1 [lectotype 824a], 2, 3, 6 [824h].*Ampyx inflata* Cooper and Kindle

Holotype 8870

Cooper, G.A. and Kindle, C.H., 1936, J. Pal., vol. 10, No. 5, p. 362, pl. 52, fig. 26.

Whitehead Formation, Upper Ordovician, Portage River west of Corner of the Beach, Gaspé, Quebec.

Ampyx laeviusculus Billings

Syntypes 693, a-f

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 295, fig. 285 [693].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 295, fig. 285.

Division N [Table Head], Middle Ordovician, Table Head, Newfoundland.

Ampyx normalis Billings

Syntypes 692, a-l

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 295, fig. 286 [692, a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 295, fig. 286.

Division P [Cow Head conglomerate], Middle Ordovician, 4 miles northeast of Portland Creek, Newfoundland.

Arthropoda

Ampyx rutilius Billings

Holotype 691

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 296.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 296.

Division P [Cow Head conglomerate], Middle Ordovician, 4 miles northeast of Portland Creek, Newfoundland.

Ampyx semicostatus Billings

Syntypes 690, a, b

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 297, fig. 287 [690].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 297, fig. 287.

Middle Ordovician, 4 miles northeast of Portland Creek, Newfoundland.

Ampyx walcottii Kobayashi

Holotype 12731; hypotypes 12732, 12733

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 469, pl. 8, figs. 1-3.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Ampyx walcottii var. *stenorachis* Kobayashi

Holotype 12734; paratype 12735

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 470, pl. 8, figs. 4a, b, 5.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Ampyx 'a' sp. nov.

Fig. specs. 12736-12738

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 470, pl. 8, figs. 21-23.

McKay Group, Lower Ordovician, south of Whiskey Trail, British Columbia.

Ampyx 'b' sp. nov.

Fig. specs. 12739-12741

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 471, pl. 8, figs. 18-20.

McKay Group, Lower Ordovician, Vermilion Basin, British Columbia.

Apatokephalus canadensis Kobayashi

Holotype 11926; paratype 11927; hypotypes 11928, 11929

Kobayashi, T., 1953, Jap. J. Geol. Geog., vol. 23, p. 52, pl. 3, figs. 1-4.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Apatokephalus canadensis Kobayashi

Hypotype 12620

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 414, pl. 2, fig. 2.

McKay Group, Lower Ordovician, southwest of Harrogate, British Columbia.

Apatolichas jukesii (Billings)

Hypotypes 16300-16315

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 106, pl. 32, figs. 6-11; pl. 33, figs. 1-10; pl. 34, figs. 1-10.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

See *Lichas jukesii*

Arctinurus sp.

Fig. spec. 11059

Steam, C.W., 1956, Geol. Surv., Canada, Mem. 281, p. 123, pl. 12, fig. 3.

Interlake Group, Middle Silurian, west shore Cross Lake, Manitoba.

Asaphellus (?) *canadensis* Kobayashi

Holotype 12664; paratypes 12665, 12666

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 438, pl. 5, figs. 1-3.

McKay Group, Lower Ordovician, southeast of Harrogate, British Columbia.

Asaphellus *homfrayi* (Salter)

Hypotypes 11191-11196

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 101, pl. 6, figs. 9-11; pl. 7, figs. 1-3.

McLeod Brook Formation, Upper Cambrian or Lower Ordovician, McLeod Brook, Cape Breton Island, Nova Scotia.

Asaphellus (?) *planus* Matthew

Paratypes 7354,a

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 102, pl. 7, figs. 5, 6.

McLeod Brook Formation, Upper Cambrian or Lower Ordovician, McLeod Brook, Cape Breton Island, Nova Scotia.

Asaphid, gen. & sp. indet.

Fig. specs. 12755-12757

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 436, pl. 8, figs. 8, 11, 14.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate and McKay Creek, British Columbia.

Asaphus alacer Billings

Holotype 2179

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 26, fig. 9a.

Upper Ordovician [English Head Formation], Carleton Point, Anticosti Island, Quebec.

=*Brachyaspis alacer*, Raymond, P.E.,

1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 119, pl. 2, fig. 3.

1913, Geol. Surv., Canada, Mus. Bull. 1, pl. 4, fig. 6.

Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 323, pl. 57, figs. 10-12.*Asaphus?* *curiosus* Billings

Syntypes 829, a-e

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 318, fig. 305 [829?].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 318, fig. 305.

Lower Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

Asaphus goniurus Billings

Syntypes (?) 830, a, b

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 324.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 415.

Beekmantown, Lower Ordovician, Levis, Quebec.

=*Megalaspis goniurus*, Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 119, pl. 2, fig. 6 [syntype 830].

[Note: questionably syntypic as mixed collection attributed to collectors R. Bell and T.C. Weston (1894).]

Arthropoda

Asaphus huttoni Billings

Holotype 657

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 271, fig. 256.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 271, fig. 256.

Division N [Table Head], Middle Ordovician, Table Head, Newfoundland.

Asaphus illaenoides Billings

Syntype 832

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 323.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 414.

Levis conglomerate, Lower Ordovician, Levis, Quebec.

=*Symphysurus illaenoides*, Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 120, pl. 3, fig. 5 [the type].

Asaphus morrisii Billings

Syntypes 655a, b, 656, a,c,d,f,g

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 272, fig. 257 [656].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 272, fig. 257.

Middle Ordovician, Table Head, Newfoundland.

Asaphus notans Billings

Holotype 2180

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 24, fig. 8.

Upper Ordovician [English Head Formation], English Head, Anticosti Island, Quebec.

=*Brachyaspis notans*, Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 118, pl. 1, fig. 1.

Asaphus pelops Billings

Syntypes 831

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 317.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 317.

Lower Ordovician, east side Bedford village, Stanbridge tp., Quebec.

Asaphus platycephalus Stokes

Hypotype 2181

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 26, fig. 9b.

Upper Ordovician [English Head Formation], English Head, Anticosti Island, Quebec.

=*Brachyaspis altilis*, Raymond, P.E.,

1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 119, pl. 2, figs. 4, 5 [holotype].

1913, Geol. Surv., Canada, Mus. Bull. 1, p. 47, pl. 4, figs. 3, 7.

Asaphus platycephalus Stokes

Hypotype 1788

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 184, fig. 193.

Middle Ordovician [Cobourg? beds], Ottawa, Ontario.

=*Isotelus latus*, Raymond, P.E., 1913, *ibid.*, Mus. Bull. 1, p. 45, pl. 5 [holotype].

Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 25, pl. 6.

Asaphus platycephalus Stokes

Hypotypes 1789, b

Billings, E., 1870, Quart. J. Geol. Soc. London, vol. 26, p. 479, pl. 31, figs. 1 [1789], 2-4 [1789b]; pl. 32, figs. 1, 2 [1789].

Woodward, H.W., 1871, Geol. Mag., vol. 8, p. 291, pl. 8, fig. 1 [1789].

Middle Ordovician [Cobourg? beds], Ottawa, Ontario.

=*Isotelus latus*, Raymond, P.E., 1920, Connecticut Acad. Arts Sci., Mem. 7, p. 34, pl. 10, fig. 1 [1789].=*Isotelus covingtonensis*, Walcott, C.D., 1924, Smithsonian Misc. Coll., vol. 67, No. 4, p. 134.=*Isotelus ottawaensis*, Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 26, pl. 3, fig. 5 [paratype 1789b]; pl. 5, figs. 1a, b [holotype 1789].*Basilicus barrandi* (Hall)

Hypotype 7749

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 23, pl. 1, fig. 2.

Leray beds, Ottawa Formation, Middle Ordovician, lot 4, con. 3, Gloucester tp., Ontario.

Bathyurellus abruptus Billings

Syntypes 648, a, b

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 263, fig. 250.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 263, fig. 250.

Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 660, pl. 69, figs. 26, 27 [lectotype 648].

Divisions F, G, H [St. George], Lower Ordovician, Port aux Choix, Newfoundland.

Bathyurellus expansus Billings

Syntypes 844, a-e

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 318, figs. 306a [844a], b [844c].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 318, figs. 306a, b.

Lower Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

Bathyurellus formosus Billings

Syntypes 644, a, 664

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 266.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 266.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

=*Uromystrum formosum*, Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 60, pl. 12, figs. 8, 9 [644a]; pl. 13, figs. 1, 2, 4 [lectotype 664].=*Uromystrum patulum*, Whittington, H.B., 1963, *ibid.*, p. 61 [644].*Bathyurellus fraternus* Billings

Syntypes 643, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 267, figs. 251a [643], b [643a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 267, figs. 251a, b.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

=*Uromystrum fraternum*, Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 58, pl. 12, figs. 1-3 [lectotype 643], 7, 10 [643a].

Arthropoda

Bathyurellus litoreus Billings

Syntypes 843, a–d

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 320.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 320.

Lower Ordovician, Levis, Quebec.

Bathyurellus marginatus Billings

Syntypes 646, a, 647

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 264, figs. 248 [646], 249 [647].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 264, figs. 248, 249.

Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 661, [lectotype 646; paratypes 646a, 647].

Divisions F, G, H [St. George], Lower Ordovician, Keppel Island and Port aux Choix, Newfoundland.

Bathyurellus nitidus Billings

Syntypes 645, a–g

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 265, fig. 249 [composite 645c, e].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 265, fig. 249.

Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 661, pl. 67, figs. 9, 13–15; text figs. 4a, b [lectotype 645b, e; paratypes 645, a, c, d, f, g].

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

Bathyurellus nitidus Billings

Hypotypes 16190–16199

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 55, pl. 10, figs. 8, 9, 11, 12, 14–17; pl. 11, figs. 1–12, 14, 15.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Bathyurellus rarus Billings

Holotype 845

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 320.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 320.

Lower Ordovician, Levis, Quebec.

Bathyurellus validus Billings

Syntype 642

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 268.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 268.

Division L [Table Head], Middle Ordovician, Point Rich, Newfoundland.

=*Uromystrum validum*, Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 659, pl. 67, figs. 1, 2, 4 [lectotype 642].

Bathyurus acutus Raymond

Holotype 7821; paratypes 7821a–d

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 56, pl. 7, fig. 4.

Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 16, pl. 2, figs. 1a, b [7821d], 2 [7821].

Pamelia beds, Lower Ordovician, CPR cut at Westboro, Ottawa, Ontario.

Bathyurus amplimarginatus Billings

Syntypes 517, a

Billings, E.,

1859, *Can. Naturalist Geol.*, vol. 4, p. 365, figs. 12a, b.1865, *Geol. Surv., Canada, Palaeoz. Fossils*, vol. 1, p. 353, fig. 341a.Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 122, fig. 41.Twenhofel, W.H., 1938, *Geol. Soc. Amer.*, Sp. Paper 11, p. 71, pl. 10, fig. 13 [517].

Lower Ordovician [Romaine Formation], Mingan Islands, Quebec.

Bathyurus angelini Billings

Syntypes 1084, a-c

Billings, E., 1859, *Can. Naturalist Geol.*, vol. 4, p. 467, fig. 37 [1084c].Logan, W.E., 1863, "Geology of Canada", *Geol. Surv., Canada, Rept. Prog.*, p. 133, fig. 68.Raymond, P.E., 1905, *Annals Carnegie Mus.*, vol. 3, No. 2, p. 335, pl. 10, figs. 11 [1084], 12 [1084a]; text fig. 1 [the type 1084c].

Lower Ordovician, Grenville, Quebec.

Bathyurus angelini Billings

Hypotypes 7829, 7815, a

Raymond, P.E., 1913, *Geol. Surv., Canada, Mus. Bull.* 1, p. 55, pl. 7, fig. 5 [7829].Whittington, H.B., 1953, *J. Pal.*, vol. 27, No. 5, p. 653, pl. 65, fig. 18 [7829].

Beekmantown, Lower Ordovician, Grenville, Argenteuil co., Quebec.

Bathyurus arcuatus Billings

Syntypes 866, a-d

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 205, figs. 189, 190 [866b].

1865, *Geol. Surv., Canada, Palaeoz. Fossils*, vol. 1, p. 205, figs. 189, 190.

Lower or Middle Ordovician, boulder at St. Antoine de Tilly, Quebec.

=*Platyantyx arcuata*, Whittington, H.B., 1953, *J. Pal.*, vol. 27, No. 5, p. 667, pl. 68, figs. 22-29 [holotype 866a; paratypes 866, b-d].*Bathyurus (Raymondites) bandifer* Sinclair

Holotype 13249

Sinclair, G.W., 1944, *Trans. Roy. Can. Inst.*, vol. 25, pt. 1, No. 53, p. 17, pl. 1, fig. 12.Wilson, A.E., 1947, *Geol. Surv., Canada, Bull.* 9, p. 19, pl. 2, fig. 7.

Leray beds, Ottawa Formation, Middle Ordovician, 7 miles west of Cobden, Ontario.

Bathyurus bituberculatus Billings

Syntypes 834, a-e

Billings, E.,

1860, *Can. Naturalist Geol.*, vol. 5, p. 319, fig. 22 [834e].1865, *Geol. Surv., Canada, Palaeoz. Fossils*, vol. 1, p. 410, fig. 391.Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 238, fig. 270.

Beekmantown, Lower Ordovician, Levis, Quebec.

=*Lloydia bituberculatus*, Raymond, P.E., 1913, *ibid.*, *Mus. Bull.* 1, p. 67, pl. 7, fig. 15 [holotype 834e].*Bathyurus caudatus* Billings

Holotype 635

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 261, fig. 245.

1865, *Geol. Surv., Canada, Palaeoz. Fossils*, vol. 1, p. 261, fig. 245.

Divisions G, H [St. George], Lower Ordovician, Port aux Choix, Newfoundland.

Arthropoda

Bathyurus conicus Billings

Holotype 516

Billings, E.,

1859, Can. Naturalist Geol., vol. 4, p. 366, fig. 12c.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 353, fig. 341b.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 122, fig. 42.

Beekmantown, Lower Ordovician, St. Timothy, Beauharnois Canal, Quebec.

=*Hystericurus conicus*, Raymond, P.E., 1913, *ibid.*, Mus. Bull. 1, p. 60, pl. 7, fig. 9.

Bathyurus cordai Billings

Syntype 836c

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 321.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 412.

Lower Ordovician, Levis, Quebec.

Bathyurus cybele Billings

Syntypes 518, a

Billings, E.,

1859, Can. Naturalist Geol., vol. 4, p. 366, fig. 12d [518].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 353, fig. 341c.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 122, fig. 43.

Lower Ordovician [Romaine Formation], Inner Birch Island, Mingan Islands, Quebec.

=*Petigurus cybele*, Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 71, pl. 10, figs. 5 [518], 6 [518a].

Bathyurus extans (Hall)

Hypotypes 7938, a

Wilson, A.E.,

1947, Geol. Surv., Canada, Bull. 9, p. 16, pl. 2, figs. 5, 6.

1957, Can. Field-Naturalist, vol. 70, No. 1, 1956, pl. 4, fig. 13.

Pamelia beds, Ottawa Formation, Middle Ordovician, near L'Orignal, Ontario.

Bathyurus ingalli Raymond

Holotype 4318; hypotypes 3563, a

Raymond, P.E.,

1913, Geol. Surv., Canada, Mus. Bull. 1, p. 57, pl. 7, fig. 7 [4318].

1921, *ibid.*, Mus. Bull. 31, p. 31, pl. 9, figs. 3 [4318], 4 [3563], 5 [3563a].

Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 19, pl. 2, figs. 16-18.

Hull Formation, Middle Ordovician, Kirkfield liftlock, Ontario.

=*Bathyurus* (*Raymondites*) *ingalli*, Sinclair, G.W., 1944, Trans. Roy. Can. Inst., vol. 25, pt. 1, No. 53, p. 16, pl. 1, fig. 11.

=*Raymondites ingalli*, Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 654.

Bathyurus (*Raymondites*) *ingalli* Raymond

Hypotype 13250

Sinclair, G.W., 1944, Trans. Roy. Can. Inst., vol. 25, pt. 1, No. 53, p. 16, pl. 1, figs. 9, 10.

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 19, pl. 2, figs. 15a, b.

Leray-Rockland beds, Ottawa Formation, Middle Ordovician, Paquette Rapids, Ottawa River.

Bathyurus johnstoni Raymond

Syntypes 7830, 7831

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 53, pl. 7, figs. 2 [7831], 3 [7830].

Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 17, pl. 2, figs. 12, 13.

Lowville beds, Middle Ordovician, lot 26, con. 6, Carden tp. and 3 miles north of Coboconk, lot 2, con. 10, Lexton tp., Ontario.

Bathyurus magnus Wilson

Holotype 7744

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 17, pl. 2, fig. 14.

Lowville beds, Ottawa Formation, Middle Ordovician, City View, Ottawa, Ontario.

Bathyurus minganensis Billings

Syntypes 520, a

Billings, E., 1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 353.

Lower Ordovician [Romaine Formation], Mingan Islands, Quebec.

Bathyurus nero Billings

Syntypes 637, a, 750, 8444, a–d

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 260, figs. 243a, b [750], c [637 + 8444].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 260, figs. 243a–c.

Divisions F, G, H [St. George], Lower Ordovician, Port aux Choix, Table Head and Keppel Island, Newfoundland.

= *Petigurus nero*, Raymond, P.E., 1913, *ibid.*, Mus. Bull. 1, p. 59, pl. 7, fig. 8 [holotype 637].

Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 658, pl. 66, figs. 18–20, 23–25; text figs. 3a, b [lectotype 750].

Bathyurus oblongus Billings

Syntypes 840, a

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 321, fig. 25 [840].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 412, fig. 394.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 238, fig. 268.

Lower Ordovician, Levis, Quebec.

Bathyurus perplexus Billings

Holotype 632

Billings, E., 1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 364, fig. 350.

Middle ? Ordovician, Bonne Bay, Newfoundland.

Bathyurus perspicator Billings

Holotype 847

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 205, fig. 191.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 205, fig. 191.

Lower or Middle Ordovician, boulder at St. Antoine de Tilly, Quebec.

= *Goniotelus perspicator*, Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 662, pl. 68, figs. 1, 2.*Bathyurus quadratus* Billings

Holotype (?) 862b

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 321, fig. 27.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 412, fig. 396.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 238, fig. 272.

Lower Ordovician, Levis, Quebec.

Arthropoda

Bathyurus saffordi Billings

Syntypes 842, a-1

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 320.

1861, *ibid.*, vol. 6, p. 313, fig. 2 [842].

1865, "New Species of Lower Silurian Fossils", p. 259, fig. 241b.

1865, Geological Survey of Canada, Palaeoz. Fossils, vol. 1, p. 259, fig. 241b.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 239, fig. 274b [842].

Lower Ordovician, Levis, Quebec.

=*Lloydia saffordi*, Raymond, P.E., 1913, *ibid.*, Mus. Bull. 1, p. 67, pl. 7, fig. 16 [842].

Bathyurus smithii Billings

Holotype 1318

Billings, E.,

1862, "New Species of Lower Silurian Fossils", p. 56.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 56.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 153, fig. 114a.

Black River, Middle Ordovician, Peterborough, Ontario.

=*Dimeropyge smithii*, Sinclair, G.W., 1946, Am. J. Sci., vol. 244, p. 855, pl. 1, fig. 7.

Bathyurus spiniger (Hall)

Hypotype 7747

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 20, pl. 2, fig. 3.

Leray beds, Ottawa Formation, Middle Ordovician, edge of hill above Sand Point, Ottawa River, Ontario.

Bathyurus strenuus Billings

Syntypes 839, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 204, fig. 188 [839a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 204, fig. 188.

Lower or Middle Ordovician, boulder at St. Antoine de Tilly, Quebec.

=*Psephosthenaspis strenua*, Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 674, pl. 67, figs. 19, 20, 25 [lectotype 839a; paratype 839].

Bathyurus superbus Raymond

Syntypes 7422, a

Raymond, P.E., 1910, Ottawa Naturalist, vol. 24, No. 8, p. 129, pl. 2, figs. 1[7422], 2 [7422a].

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 18, pl. 2, figs. 10, 11.

Black River, Middle Ordovician, Mechanicsville, Ottawa, Ontario.

Bathyurus timon Billings

Syntypes 636, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 261, fig. 244 [636].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 261, fig. 244.

Divisions G, H [St. George], Lower Ordovician, Port aux Choix, Newfoundland.

Bathyurus trispinosus Wilson

Holotype 11304; paratype 11304a

Wilson, A.E.,

1947, Geol. Surv., Canada, Bull. 9, p. 21, pl. 2, figs. 8 [11304a], 9 [11304].

1957, Can. Field-Naturalist, vol. 70, No. 1, 1956, pl. 4, fig. 12.

Leray-Rockland beds, Ottawa Formation, Middle Ordovician, east of Pakenham, Ontario.

Bathyurus sp.

Fig. spec. 7833

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 53, pl. 7, fig. 6.
 Pamela Formation, Middle Ordovician, 3 miles west of Clayton, New York, U.S.A.

Bellefontia (?) aff. *collieana* (Raymond)

Hypotypes 12661, 12662

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 437, pl. 5,
 figs. 4, 5.

McKay Group, Lower Ordovician, Pinnacle Creek and Harrogate, British Columbia.

Bellefontia platana Kobayashi

Holotype 12657; paratype 12658; hypotypes 12659, 12660

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 436, pl. 3,
 figs. 2-5.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Bellefontia (?) sp.

Fig. spec. 12663

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 437, pl. 5,
 fig. 6.

McKay Group, Lower Ordovician, Harrogate, British Columbia.

Beltella (?) sp.

Fig. spec. 11142

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 83, pl. 3, fig. 16.

McLeod Brook Formation, Lower Ordovician, McLeod Brook, Cape Breton Island, Nova
 Scotia.

Brachyaspis alacer see *Asaphus alacer**Brachyaspis altilis* see *Asaphus platycephalus**Brachyaspis notans* see *Asaphus notans**Bronteus aquilonaris* Whiteaves

Syntypes 4416, 17736,a [cast and mould], 17737

Whiteaves, J.F.,

1904, Geol. Surv., Canada, Ann. Rept., n. ser., vol. 14, 1901, p. 58F.

1906, *ibid.*, Palaeoz. Fossils, vol. 3, pt. 4, p. 267, pl. 42, fig. 2 [4416].

Silurian, portage road below and at falls, Ekwan River, Ontario.

Bronteus ekwanensis Whiteaves

Syntypes 4406, 17753, a [cast and mould]

Whiteaves, J.F.,

1904, Geol. Surv., Canada, Ann. Rept., n. ser., vol. 14, 1901, p. 58F.

1906, *ibid.*, Palaeoz. Fossils, vol. 3, pt. 4, p. 266, pl. 42, fig. 1 [4406].

Silurian, rapids below falls (middle and lower), Ekwan River, Ontario.

Bronteus insularis Billings

Holotype 2558

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 66.

Middle Silurian [Chicotte Formation], Southwest Point, Anticosti Island, Quebec.

=*Goldius insularis*, Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 327, pl. 54, fig. 9.

Arthropoda

Bronteus lunatus Billings

Syntypes 1781, a-c

Billings, E., 1857, Geol. Surv., Canada, Rept. Prog. 1853-56, p. 338.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 188, fig. 187.

Middle Ordovician [Cobourg beds?], Ottawa, Ontario.

=*Goldius lunatus*, Raymond, P.E., 1921, *ibid.*, Mus. Bull. 31, p. 32, pl. 9, fig. 8 [1781c].

=*Eobronteus lunatus*, Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 38, pl. 8, figs. 10 [holotype 1781]. 11 [1781a].

Sinclair, G.W., 1949, J. Pal., vol. 23, No. 1, p. 52, pl. 14, figs. 2, 6.

Bronteus manitobensis Whiteaves

Syntypes 4108-4110

Whiteaves, J.F., 1892, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 4, p. 347, pl. 46, figs. 5 [4108], 6 [4109], 7 [4110].

Middle Devonian [Winnipegosis Formation], island north of Whiteaves Point and Rowan Island, Dawson Bay, Lake Winnipegosis and Pentamerus Point, Lake Manitoba, Manitoba.

Bronteus pompilius Billings

Syntypes? 3082, a-e

Billings, E., 1869, Proc. Portland (Maine) Soc. Natural Hist., vol. 1, pt. 2, p. 123, pl. 3, fig. 25 [composite].

Chaleur Group [West Point Formation], Middle Silurian, Port Daniel, Chaleur Bay, Quebec.

Bumastus billingsi Raymond and Narraway

Hypotype 331

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 34, pl. 3, fig. 12.

Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 34, pl. 7, fig. 13.

Cobourg ? beds, Middle Ordovician, Ottawa, Ontario.

Bumastus globosus see *Illaenus globosus*

Bumastus indeterminatus (Walcott)

Hypotype 13253

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 34, pl. 7, fig. 12.

Rockland beds, Ottawa Formation, Middle Ordovician, Parkdale Avenue, Ottawa, Ontario.

Bumastus (Bumastoides) milleri see *Illaenus milleri*

Bumastus milleri see *Illaenus milleri*

Bumastus orbicaudatus see *Illaenus orbicaudatus*

Bumastus porrectus Raymond

Hypotypes 7759, 7760

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 35, pl. 7, figs. 7, 8.

Cobourg beds, Ottawa Formation, Middle Ordovician, corners Percy Street and Fifth Avenue, and Booth and Elm Streets, Ottawa, Ontario.

Bumastus porrectus Raymond

Hypotype 13254

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 35, pl. 7, fig. 9.

Hull beds, Ottawa Formation, Middle Ordovician, east side of Fairy lake, Quebec.

Calliops callicephalus (Hall)

Hypotypes 7765, 8009

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 56, pl. 10, figs. 5, 6.

Sherman Fall beds, Ottawa Formation, Middle Ordovician, CPR cut south of Aylmer road and "The Heap", Hull, Quebec.

Calliops narrawayi Okulitch

Hypotype 13261

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 57, pl. 10, fig. 7.

Sherman Fall beds, Ottawa Formation, Middle Ordovician, axe factory, Hull, Quebec.

Calymene intermedia var. *antigonishensis* McLearn

Paratypes 5588-5590

McLearn, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 162, pl. 26, figs. 6, 7, 11.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Calymene tuberculata (Brünnich)

Hypotypes 5584, 5587

McLearn, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 161, pl. 26, figs. 1, 2.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Calymene tuberculosa (Dalman)

Hypotypes 5585, 5586

McLearn, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 161, pl. 26, figs. 3, 4.

Ross Brook Formation, Middle Silurian, Arisaig, Nova Scotia.

Calymene sp. indet.

Fig. spec. 3671

Raymond, P.E., 1921, Geol. Surv., Canada, Mus. Bull. 31, p. 38, pl. 11, fig. 5.

Upper Ordovician, Craigeleith, Ontario.

Calyptaulax calderi Wilson

Holotype 11301; paratype 11301a

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 58, pl. 10, figs. 9, 10.

Leary-Rockland beds, Ottawa Formation, Middle Ordovician, east of Pakenham, Ontario.

Calyptaulax sp.

Fig. specs. 16872, 16873

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 12, pl. 4, figs. 1, 7.

Sunblood Formation, Middle Ordovician, Sunblood Mountain, South Nahanni River, District of Mackenzie.

Ceratocephala exigua Whittington

Holotype 16298; paratype 16299

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 103, pl. 31, figs. 18, 21; pl. 32, figs. 1-3.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Ceratocephala goniata Warden

Hypotypes 2990, 7825

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 38.

Middle Silurian [West Point Formation], Gros Morbe (Actenson's Cove) and Port Daniel, Chaleur Bay, Quebec.

Ceraurinus confluens Barton

Holotype 5997

Barton, D.C., 1913, Bull. Mus. Comp. Zoology Harvard, vol. 54, No. 21, p. 555, pl., fig. 3.

Cobourg Formation, Middle Ordovician, Pepperlaw, Ontario.

Ceraurinus elongatus Cooper

Paratype 9077

Cooper, G.A., 1930, Am. J. Sci., ser. 5, vol. 20, p. 384, pl. 5, fig. 14.

Whitehead Formation, Upper Ordovician, Irishtown Road, ¼ mile west of Mountain Road, Quebec.

Arthropoda

Ceraurinus icarus see *Cheirusus icarus*

Ceraurinus marginatus Barton

Hypotype 3566

Raymond, P.E., 1921, Geol. Surv., Canada, Bull. 31, p. 37, pl. 11, fig. 6.
Collingwood Formation, Upper Ordovician, Craigeith, Ontario.

Ceraurinus marginatus Barton

Hypotypes 8555a, b

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 248, pl. 46, figs. 6a, b.
Kagawong Formation, Upper Ordovician, 3 miles southwest of Little Current, Manitoulin Island, Ontario.

Ceraurinus marginatus Barton

Hypotype 13259

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 51, pl. 9, fig. 6.
Cobourg beds, Ottawa Formation, Middle Ordovician, Philemon Island, Hull, Quebec.

Ceraurinus pompilius see *Cheirusus pompilius*

Ceraurinus trentonensis Barton

Holotype 5836

Barton, D.C., 1913, Bull. Mus. Comp. Zoology Harvard, vol. 54, No. 21, p. 552, pl.,
figs. 5, 6.
Basal Trenton, Middle Ordovician, Goat Island, Ontario.

Ceraurus dentatus Raymond and Barton

Holotype 1775 [missing]

Raymond, P.E., and Barton, D.C., 1913, Bull. Mus. Comp. Zoology Harvard, vol. 54,
No. 20, p. 534, pl. 2, figs. 4, 5.
Raymond, P.E., 1921, Geol. Surv., Canada, Mus. Bull. 31, p. 35, pl. 11, figs. 7, 8.
Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 49, pl. 9, figs. 2a, b.
Leray-Rockland beds, Middle Ordovician, north of Vankleek Hill, Ontario.

Ceraurus dentatus Raymond and Barton

Hypotypes 1769, b, 8062

Raymond, P.E., 1921, Geol. Surv., Canada, Mus. Bull. 31, p. 35, pl. 10, figs. 1-3.
Cobourg and Hull Formations, Middle Ordovician, Cobourg and Belleville, Ontario.

Ceraurus matranseris Sinclair

Holotype 6801; paratype 7395; hypotype 7712

Sinclair, G.W., 1947, Am. J. Sci., vol. 245, p. 254, pl. 1, figs. 3-6.
Middle Trenton limestone, Middle Ordovician, north of Roberval, Quebec.

Ceraurus numitor (Billings)

Hypotype 2199

Twenhofel, W.H., 1928, Geol. Surv., Canada, Mem. 154, p. 333.
English Head Formation, Upper Ordovician, Makasty Bay, Anticosti Island, Quebec.
[Note: specimen collected by T.C. Weston and though very similar to figured specimens of
Cheirusus numitor collected from English Head by Richardson doubtful if part of
original material.]

Ceraurus pleurexanthemus Green

Hypotypes 7763, 11303

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 50, pl. 8, figs. 3, 4.
Leray-Rockland and Cobourg beds, Ottawa Formation, Middle Ordovician, lots 19-24, con.
1, Winchester tp. and near Alfred, Ontario.

Ceraurus sp. 1

Fig. spec. 8874

Cooper, G.A., and Kindle, C.H., 1936, J. Pal., vol. 10, No. 5, p. 370, pl. 53, fig. 27.
Whitehead Formation, Upper Ordovician, Priest's Road, Percé, Quebec.

Ceraurus sp. 2

Fig. spec. 8875

Cooper, G.A., and Kindle C.H., 1936, J. Pal., vol. 10, No. 5, p. 370, pl. 53, fig. 21.
Whitehead Formation, Upper Ordovician, Irishtown Road, Percé, Quebec.

Chasmops anticostiensis Twenhofel

Holotype 2329

Twenhofel, W.H., 1928, Geol. Surv., Canada, Mem. 154, p. 336, pl. 60, fig. 3 [labelled 4].
Delo, D.M., 1940, Geol. Soc. Amer., Sp. Paper 29, p. 105, pl. 13, fig. 12.

Ellis Bay Formation, Upper Ordovician, Junction Bay, Anticosti Island, Quebec.

Chasmops? bebryx (Billings)

Hypotype 13262

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 61, pl. 10, fig. 14.
Cobourg beds, Ottawa Formation, Middle Ordovician, Philemon Island, Hull, Quebec.

Chasmops occidentalis Twenhofel

Holotype 2187; paratype 2187a

Twenhofel, W.H., 1928, Geol. Surv., Canada, Mem. 154, p. 338, pl. 60, fig. 5 [labelled 2].

Delo, D.M., 1940, Geol. Soc. Amer., Sp. Paper 29, p. 106, pl. 13, fig. 14.
English Head Formation, Upper Ordovician, English Head, Anticosti Island, Quebec.

Cheirus apollo Billings

Electrotype 865

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 322, fig. 28(?).

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 413, fig. 397(?).

Beekmantown, Lower Ordovician, Levis, Quebec.

Cheirus eryx Billings

Holotype(?) 864

Billings, E.,

1860, Can. Naturalist Geol., vol. 5, p. 322, fig. 30.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 413, fig. 399.

Logan, W.E., 1863, "Geology of Canada", *ibid.*, Rept. Prog., p. 239, fig. 276.

Beekmantown, Lower Ordovician, Levis, Quebec.

Cheirus glaucus Billings

Syntypes 850, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 323, figs. 308a, b [850].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 323, figs. 308a, b.

Lower Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

Cheirus icarus Billings

Syntypes 2816, a-c

Billings, E., 1860, Can. Naturalist Geol., vol. 5, p. 67, fig. 11.

Upper Ordovician [Vaureal Formation], Carleton Point, Anticosti Island, Quebec.

=*Ceraurus icarus*, Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 249, pl. 44, figs. 3a [2186], b [2186b].

Arthropoda

Cheirurus mercurius Billings

Syntypes 668, a-f

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 285, fig. 272 [668].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 285, fig. 272.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

=*Cydonocephalus mercurius*, Whittington, H.B., 1963, Bull. Mus. Comp. Zoology

Harvard, vol. 129, No. 1, p. 102, pl. 30, figs. 11-13 [holotype 668], 19, 20 [668f].

=*Kawina limbata*, Whittington, H.B., 1963, *ibid.*, p. 92 [668b].

Cheirurus numitor see *Ceraurus numitor*

Cheirurus nuperus Billings

Hypotype 2553

Twenhofel, W.H., 1928, Geol. Surv., Canada, Mem. 154, p. 333, pl. 54, fig. 7.

Middle Silurian, Chicotte Formation, Southwest Point, Anticosti Island, Quebec.

Cheirurus perforator Billings

Holotype 684

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 287, fig. 275.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 287, fig. 275.

Division N [Table Head], Middle Ordovician, Table Head, Newfoundland.

Cheirurus polydorus Billings

Syntypes 685, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 286.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 286.

Division P, Middle Ordovician, Portland Creek, Newfoundland.

≠*Cheirurus* "polydorus", Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 85, pl. 25, fig. 10.

Cheirurus pompilius Billings

Holotype 1317

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 181, fig. 162.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 181, fig. 162.

Middle Ordovician [Mingan Formation], south side of Large Island, Mingan Islands, Quebec.

=*Ceraurus pompilius*, Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 75, pl. 11, fig. 19.

Cheirurus prolificus Billings

Syntypes 687, a-n

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 285, fig. 273 [687].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 285, fig. 273.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head Newfoundland.

=*Cydonocephalus prolificus*, Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 101, pl. 29, figs. 16, 17 [holotype 687].

Cheirurus satyrus Billings

Holotype 1087

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 324, fig. 309.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 324, fig. 309.

Lower? Ordovician, Island of Montreal, Quebec.

Cheirurus sol Billings

Syntype 683

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 288, fig. 276(?).

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 288, fig. 276(?).

Middle Ordovician, 4 miles northeast of Portland Creek, Newfoundland.

= *Heliomera sol*, Evitt, W.R., 1951, J. Pal., vol. 25, No. 5, p. 603, pl. 85, figs. 24-29 [plaster cast of lectotype].*Cheirurus solitarius* Billings

Holotype 852

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 206,

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 206.

Lower or Middle Ordovician, boulder at St. Antoine de Tilly, Quebec.

= *Idiorhapha solitaria*, Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 675, pl. 69, figs. 14, 15.*Cheirurus tarquinius* Billings

Syntypes 3081, a-d

Billings, E., 1869, Proc. Portland Soc. Natural Hist., vol. 1, pt. 2, p. 121.

Raymond, P.E., 1916, Bull. Mus. Comp. Zool. Harvard, vol. 60, No. 1, p. 38 [the type 3081].

Middle Silurian, Port Daniel, Chaleur Bay, Quebec.

Cheirurus vulcanus Billings

Syntypes 669, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 284, figs. 271a [669], b [669c?], c [669b].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 284, figs. 271a-c.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

= *Kawina limbata*, Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 92, pl. 25, figs. 9, 11, 12 [669c].= *Kawina vulcanus*, Whittington, H.B., 1963, *ibid.*, p. 91, pl. 25, figs. 7, 8 [lectotype 669].= ?*Kawina* sp. ind., Whittington, H.B., 1963, *ibid.*, p. 95, pl. 31, fig. 1 [669b].*Cheirurus vulcanus* Billings

Hypotypes 851, c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 324, figs. 310a, b [851], c [851c].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 324, figs. 310a-c.

Lower Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

= *Pseudosphaeroxochus vulcanus* var. *billingsi*, Raymond, P.E., 1905, Annals Carnegie Mus., vol. 3, No. 2, p. 369.*Clelandia*(?) sp.

Fig. spec. 12711

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 456, pl. 6, figs. 5a, b.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Arthropoda

Colobinion julius (Billings)

Hypotypes 16140-16144

Whittington, H.B., 1961, J. Pal., vol. 35, No. 5, p. 920, pl. 102, figs. 1-3, 6-17.

Upper Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Columbicephalus macrops Kobayashi

Holotype 12686

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 444, pl. 5, figs. 7a, b.

Glenogle Formation, Lower Ordovician, Vermilion Basin, British Columbia.

Cryptolithus bellulus (Ulrich)

Hypotypes 6780, a

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 237, pl. 43, figs. 19 [6780], 20 [6780a].

Upper Ordovician, Yamaska River, 1½ miles below St. Hugues, Quebec.

Cryptolithus lorettensis Foerste

Hypotype 10790

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 236, pl. 43, figs. 15, 16.

Trenton, Middle Ordovician, Falls of Lorette, near Quebec City, Quebec.

Cryptolithus sp.

Fig. spec. 1773

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 236, pl. 43, fig. 17.

Trenton, Middle Ordovician, Montmorency Falls near Quebec City, Quebec.

Cryptolithus sp.

Hypotypes 1753, a

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 236.

'Trenton', Middle Ordovician, Montreal, Quebec.

Cybele spicata Raymond

Holotype 3564

Raymond, P.E., 1921, Geol. Surv., Canada, Mus. Bull. 31, p. 34, pl. 11, fig. 1.

Collingwood Formation, Upper Ordovician, Craigeith, Ontario.

Cybeloides plana Sinclair

Holotype 13258

Sinclair, G.W., 1944, Trans. Roy. Can. Inst., vol. 25, pt. 1, No. 53, p. 19, pl. 1, fig. 8.

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 46, pl. 10, fig. 3.

Sherman Fall beds, Middle Ordovician, quarry 1 mile west of Finch, Ontario.

Cybeloides sp.

Fig. spec. 16874

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 12, pl. 4, fig. 2.

Sunblood Formation, Middle Ordovician, Sunblood Mountain, South Nahanni River, District of Mackenzie.

Cyclognathus rotundifrons Matthew

Hypotypes 11173-11175

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 94, pl. 5, figs. 7-9.

McLeod Brook Formation, Lower Ordovician, McLeod Brook, Cape Breton Island, Nova Scotia.

Cyclopyge kindlei Cooper

Holotype 9076

Cooper, G.A., 1930, Am. J. Sci., ser. 5, vol. 20, p. 378, pl. 5, figs. 2022.

Whitehead Formation, Upper Ordovician, South Cove, Percé, Quebec.

- Cydonocephalus griphus* Whittington
 Holotype 16272; paratypes 16273, 16274, 16276
 Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 98,
 pl. 27, figs. 3, 7, 10-15, 19; pl. 28, figs. 1-4.
 Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.
- Cydonocephalus mercurius* see *Cheirus mercurius*
- Cydonocephalus prolificus* (Billings)
 Hypotypes 16283-16286
 Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 101,
 pl. 28, figs. 12-15; pl. 30, figs. 1-10.
 Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.
- Cydonocephalus prominulus* Whittington
 Holotype 16287; paratype 16288
 Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 103,
 pl. 30, figs. 14-18, 21.
 Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.
- Cydonocephalus scrobiculus* Whittington
 Holotype 16280; paratypes 16281, 16282
 Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 101,
 pl. 28, figs. 9-11; pl. 29, figs. 8, 10-15.
 Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.
- Cydonocephalus torulus* Whittington
 Holotype 16277; paratypes 16275, 16278, 16279, 16320
 Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 100,
 pl. 27, figs. 16-18; pl. 28, figs. 5-8; pl. 29, figs. 1-7, 9; pl. 26, figs. 1-4, 6.
 Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.
- Cyphaspis bellula* Whiteaves
 Syntypes 4104, a, 4105, 4106, a-c
 Whiteaves, J.F., 1892, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 4, p. 349,
 pl. 46, figs. 9, a [4106].
 Middle Devonian [Winnipegosis Formation], Islands north of Whiteaves Point, Dawson Bay,
 Lake Winnipegosis, Manitoba.
- Dalmanites achates* Billings
 Syntype 1784
 Billings, E., 1860, Can. Naturalist Geol., vol. 5, p. 63, fig. 9.
 Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 187,
 fig. 186.
 Middle Ordovician [Cobourg? beds], Ottawa, Ontario.
 =*Achatella achates*, Wilson, A.E., 1967, *ibid.*, Bull. 9, p. 60, pl. 10, fig. 16 [holotype].
- Dalmanites iimulurus* Green
 Hypotype 2751
 Williams, M.Y., 1919, Geol. Surv., Canada, Mem. 111, pl. 21, fig. 2.
 Lockport Formation, Middle Silurian, West Flamborough, Wentworth co., Ontario.
- Dalmanitina logani* (Hall)
 Hypotypes 5998, 6210, 6211
 McLearn, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 167, pl. 27, figs. 3-5.
 Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.
 =*Scotiella logani*, Delo, D.M., 1940, Geol. Soc. Amer., Sp. Paper 29, p. 33.

Arthropoda

Dalmanitina logani var. *conservatrix* McLearn

Paratype 5999

McLearn, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 168, pl. 27, fig. 2.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

=*Scotiella logani* var. *conservatrix*, Delo, D.M., 1940, Geol. Soc. Amer., Sp. Paper 29, p. 34, pl. 2, fig. 18.

Dechenella (*Basidechenella*) *formosensis* Fagerstrom

Paratype 14756

Fagerstrom, J.A., 1961, J. Pal., vol. 35, No. 1, p. 42, pl. 14, fig. 5.

Formosa reef limestone, Middle Devonian, outcrop south side of road 6 miles southeast of Teeswater, lot 5, con. 3, Carrie tp., Ontario.

Dechenella (*Dechenella*) (?) *halli* Stumm

Hypotype 14758

Fagerstrom, J.A., 1961, J. Pal., vol. 35, No. 1, p. 42, pl. 14, fig. 19.

Formosa reef limestone, Middle Devonian, north side outcrop nearest west road, Falls of Teeswater River, Ontario.

Dikelocephalus missisquoi Billings

Holotype 878

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 199.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 199.

Beekmantown, Lower Ordovician, Philipsburg, Quebec.

Dimeropyge gibbus Sinclair

Paratype 6701

Sinclair, G.W., 1946, Am. J. Sci., vol. 244, p. 856, pl. 1, fig. 4.

Sherman Fall limestone, Middle Ordovician, Lakefield, Ontario.

Dimeropyge lucifer Sinclair

Holotype 6726; paratype 6726a

Sinclair, G.W., 1946, Am. J. Sci., vol. 244, p. 858, pl. 1, figs. 5, 6.

Middle Trenton, Middle Ordovician, 1 mile north of Roberval, Quebec.

Dimeropyge smithii see *Bathyurus smithii*

Dimeropygid cephalon, gen. ind.

Fig. spec. 16160

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 50, pl. 6, figs. 10-12.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Dimeropygiella eos Kobayashi

Holotype 12712

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 456, pl. 6, fig. 10.

McKay Group, Lower Ordovician, south of Whiskey Trail, British Columbia.

Dolichometopus ? *convexus* Billings

Holotype 718

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 269, fig. 253.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 269, fig. 253.

Division G [St. George], Lower Ordovician, Port aux Choix, Newfoundland.

Dolichometopus ? *gibberulus* Billings

Holotype 660

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 269, fig. 254.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 269, fig. 254.

Division G [St. George], Lower Ordovician, Port au Choix, Newfoundland.

Dolichometopus ? *rarus* Billings

Holotype 514

Billings, E., 1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 352, fig. 338.

Lower Ordovician, Oxford tp., Ontario.

Echinolichas parallelobatus Fagerstrom

Paratype 14759

Fagerstrom, J.A., 1961, J. Pal., vol. 35, No. 1, p. 43.

Formosa reef limestone, Middle Devonian, road-cut 2 miles north of Formosa, Ontario.

Ectenonotus westoni see *Amphion westoni**Ectenonotus* sp.

Fig. specs. 16134, 16135

Whittington, H.B., 1961, J. Pal., vol. 35, No. 5, p. 917, pl. 100, figs. 1-5.

Upper Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Encrinurus caplanensis Northrop

Syn types 9158

Northrop, S.A., 1939, Geol. Soc. Amer., Sp. Paper 21, p. 239, pl. 26, figs. 13+15.

Clemville Formation, Middle Silurian, St. Alphonse-de-la Rivière Caplan, Gaspé, Quebec.

Encrinurus cybeleformis Raymond

Holotype 3385

Raymond, P.E., 1921, Geol. Surv., Canada, Mus. Bull. 31, p. 33, pl. 11, fig. 2.

Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 44, pl. 8, fig. 6.

Rockland Formation, Middle Ordovician, 1 mile west of Kirkfield liftlock, Ontario.

Encrinurus elegantulus Billings

Syntypes 2551 [on same piece of rock]

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 62.

Middle Silurian [Jupiter Formation], The Jumpers, Anticosti Island, Quebec.

Encrinurus hypoleprus Steam

Holotype 11062; paratypes 11040, 11050

Steam, C.W., 1956, Geol. Surv., Canada, Mem. 281, p. 122, pl. 12, figs. 1, 2, 4.

Interleke Group, Middle Silurian, south bank Saskatchewan River and east side of bay behind and at Denbeigh Point, Lake Winnipegosis, Manitoba.

Encrinurus laurentinus Twenhofel

Holotype 2325e; paratype 2325

Twenhofel, W.H., 1928, Geol. Surv., Canada, Mem. 154, p. 328, pl. 59, figs. 2, 3.

Ellis Bay Formation, Upper Ordovician, Junction Cliff, Anticosti Island, Quebec.

Encrinurus mirus Billings

Syntypes 697, a-c, 698, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 292, fig. 282.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 292, fig. 282 [697, 698a].

Middle Ordovician, Pistolet Bay and Table Head, Newfoundland.

= *Cybele mira*, Howell, B.J., 1947, Bull. Wagner Free Inst. Sci., vol. 22, No. 2, p. 12, pl. 1, figs. 1, 2.

Arthropoda

Encrinurus cf. princeps Poulsen

Hypotypes 15405-15407

Raasch, G.O. et al., 1961, "Geology of the Arctic", vol. 1, p. 478, pl. 5, figs. 1-3.
Middle Silurian, Prong Creek, Wind River area, lat. 65°17'N, long. 135°45'W, central Yukon.

Encrinurus cf. E. princeps Poulsen

Hypotype 16903

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 20, pl. 8, fi g. 14.
Silurian, lat. 64°47'N, long. 135°07'W, Yukon Territory.

Encrinurus trentonensis Walcott

Hypotype 13257

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 45, pl. 8, fig. 5.
Rockland beds, Ottawa Formation, Middle Ordovician, south of Embrun, Ontario.

Endymion meeki Billings

Holotype 875

Billings, E.,

1862, "New Species of Lower Silurian Fossils", p. 94, fi g. 84.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 94, fig. 84.

Lower Ordovician, Levis, Quebec.

=*Endymionia meeki*, Billings, E., 1865, *ibid.*, p. 281.

Eobronteus benoratus Sinclair

Holotype 9573; paratypes 9573a, b

Sinclair, G.W., 1949, J. Pal., vol. 23, No. 1, p. 47, pl. 14, fi gs. 3, 5.

Black River limestone, Middle Ordovician, north of Ste. Anne de Chicoutimi, Quebec.

Eobronteus curtus Sinclair

Holotype 9572; paratype 9572a

Sinclair, G.W., 1949, J. Pal., vol. 23, No. 1, p. 50, pl. 13, fi gs. 1, 2.

Basal Trenton, Middle Ordovician, Riviere Sault à la Puce, County Montmorenci, Quebec.

Eobronteus lunatus see *Bronteus lunatus*

Eobronteus reedi Sinclair

Holotype 11081; paratype 11081a

Sinclair, G.W., 1949, J. Pal., vol. 23, No. 1, p. 51, pl. 14, figs. 7, 9, 10.

Middle Trenton, Middle Ordovician, Cap a l'Aigle, Quebec.

Eoharpes dentoni (Billings)

Hypotypes 1767, 7827

Raymond, P.E.,

1913, Geol. Surv., Canada, Mus. Bull. 1, p. 33, pl. 3, fig. 5 [1767].

1921, *ibid.*, Mus. Bull. 31, p. 30, pl. 9, fig. 6 [not 1781c].

Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 11, pl. 1, figs. 7 [7827], 8 [neotype].

Trenton, Middle Ordovician, Ottawa River, Ottawa, Ontario.

Eoharpes ottawaensis see *Harpes ottawaensis*

Eoharpes ottawaensis var. *anticostiensis* Twenhofel

Syntypes 2196, 2197

Twenhofel, W.H., 1928, Geol. Surv., Canada, Mem. 154, p. 321, pl. 56, fi gs. 2, 3.

English Head Formation, Upper Ordovician, Wreck Point and English Head, Anticosti
Island, Quebec.

Eulomella mckayensis Kobayashi

Holotype 12703

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 451, pl. 6, fig. 3.

McKay Group, Lower Ordovician, north end Steamboat Mountain west of Brisco, British Columbia.

Flexicalymene senaria (Conrad)

Hypotypes 7761, 7762

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 48, pl. 10, figs. 11a, b, 12.

Rockland and Sherman Fall beds, Ottawa Formation, Middle Ordovician, 4 miles west of L'Orignal and Governor Bay, Ottawa, Ontario.

Geragnostus clusus Whittington

Holotype 16171; paratypes 16172-16175

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 28, pl. 1, figs. 1-17.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Geragnostus aff. *mundus* (Raymond)

Hypotypes 12749, 12750

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 475, pl. 7, fig. 1; pl. 8, fig. 17.

McKay Group, Lower Ordovician, southeast of Sinclair Creek, British Columbia.

Geragnostus subobesus see *Agnostus subobesus**Glaphurus divisus* Whittington

Holotype 16183; paratypes 16184-16187

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 51, pl. 8, figs. 11-14; pl. 9, figs. 1-6, 8.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Goldius insularis see *Bronteus insularis**Goldius lunatus* see *Bronteus lunatus**Gonioteloides monoceros* Kobayashi

Holotype 12697; paratype 12698

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 447, pl. 6, figs. 17a, b, 18a, b.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Gonioteloides punctatus Kobayashi

Holotype 12699

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 448, pl. 6, figs. 19a, b.

McKay Group, Lower Ordovician, south of Whiskey Trail, British Columbia.

Goniotelus kindlei Whittington

Holotype 16206; paratypes 16207, 16208 *

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 63, pl. 14, figs. 3-9.

Cow Head Group, Middle Ordovician, Boulder at Lower Head, Newfoundland.

Goniotelus perspicator (Billings)

Hypotypes 13270-13272

Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 662, pl. 68, figs. 3, 4, 6, 8-10.

Lower or Middle Ordovician, boulder at St. Antoine de Tilly, Quebec.

Arthropoda

Goniotelus perspicator (Billings)

Hypotype 16316

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 63, pl. 35, figs. 2, 5, 7, 9.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Goniotelus rostratus Whittington

Holotype 16209; paratypes 16210, 16211

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 64, pl. 14, figs. 10-12; pl. 15, figs. 1-4, 6.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Goniotelus sp. ind.

Fig. spec. 16212

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 65, pl. 15, figs. 5, 7, 8.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Goniurus elongatus Raymond

Syntypes 7937, a

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 66, pl. 7, figs. 11 [7937], 12 [7937a].

Beekmantown, Lower Ordovician, between Philipsburg and St. Armand, Quebec.

Goniurus perspicator (Billings)

Hypotype 7836

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 65, pl. 7, fig. 10.

Lower or Middle Ordovician, boulder at St. Antoine de Tilley, Quebec.

=*Goniotelus perspicator*, Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 662, pl. 68, figs. 5, 7.

Haploconus smithii (Billings)

Hypotype 7828

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 62, pl. 7, figs. 13, 14.

Sherman Fall limestone, Middle Ordovician, Peterborough, Ontario.

=*Dimeropyge gibbus*, Sinclair, G.W., 1946, Am. J. Sci., vol. 244, p. 856, pl. 1, figs. 1-3 [holotype].

Hardyia metion Walcott

Hypotypes 9377, a

Kindle, C.H., 1929, Can. Field-Naturalist, vol. 43, No. 7, p. 146, figs. 16, 17.

Lower Ordovician, Swift's Ranch, 7 miles north Jasper, British Columbia.

Harpes consuetus Billings

Holotype 2550

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 64.

Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 321, pl. 54, fig. 8.

Middle Silurian [Chicotte Formation], Southwest Point, Anticosti Island, Quebec.

Harpes granti Billings

Holotype 874

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 326, fig. 314.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 326, fig. 314.

Beekmantown, Lower Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

Harpes ottawaensis Billings

Holotype 329; paratype 329c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 182, fig. 165.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 182, fig. 165.

Middle Ordovician [Cobourg beds?], Ottawa, Ontario.

= *Eoharpes ottawaensis*, Raymond, P.E.,1913, *ibid.*, Mus. Bull. 1, pl. 3, fig. 6.1921, *ibid.*, Mus. Bull. 31, p. 29, pl. 9, fig. 1.Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 12, pl. 1, fig. 9.*Harpides atlanticus* Billings

Holotype 674

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 281, fig. 267.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 281, fig. 267.

Division P [Cow Head conglomerate], Middle Ordovician, 4 miles northeast of Portland Creek, Newfoundland.

Harpides concentricus Billings

Holotype 672

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 282, fig. 268.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 282, fig. 268.

Division P [Cow Head conglomerate], Middle Ordovician, 4 miles northeast of Portland Creek, Newfoundland.

Harpides? desertus Billings

Holotype 873

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 333, fig. 321.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 333, fig. 321.

Beekmantown, Lower Ordovician, Bedford, Quebec.

Harpillaenus arcuatus (Billings)

Hypotypes 16242-16250

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 78, pl. 20, figs. 13, 15, 16; pl. 21, figs. 4-15.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Heliomera albata Whittington

Holotype 16259; paratypes 16258, 16260-16262

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 86, pl. 24, figs. 1-13.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Heliomera sol see *Cheirurus sol*

Heliomerinid pygidium

Fig. spec. 16265

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 86, pl. 25, fig. 3.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Arthropoda

Heliomeroides alacer Whittington

Holotype 16263; paratype 16264

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 88, pl. 24, figs. 14-16; pl. 25, figs. 1, 2, 4-6.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Hemiarges aeolus Sinclair

Holotype 13276

Sinclair, G.W., 1944, Trans. Roy. Can. Inst., vol. 25, No. 1, p. 19, pl. 1, figs. 5-7.

Middle Trenton, Middle Ordovician, Lakefield, Ontario.

Hemiarges aquilonius Whittington

Holotype 15242; paratypes 15243-15246; hypotypes 15247-15265

Whittington, H.B., 1961, J. Pal., vol. 35, No. 3, p. 439, pl. 56, figs. 1-34; pl. 57, figs. 1-28.

Member C, Read Bay Formation, Upper Silurian, near Cape Hotham, Cornwallis Island, Arctic.

Hemiarges paulianus (Clarke)

Hypotype 3741

Raymond, P.E., 1921, Geol. Surv., Canada, Mus. Bull. 31, p. 32, pl. 9, fig. 2.

Hull Formation, Middle Ordovician, Kirkfield liftlock, Ontario.

Hemiarges paulianus (Clarke)

Hypotypes 11302, 13256

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 42, pl. 8, figs. 7, 8.

Sherman Fall and Cobourg beds, Ottawa Formation, Middle Ordovician, Brewery Creek and Philemon Island, Hull, Quebec.

Hemigyraspis sp.

Fig. spec. 7820

Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 120, pl. 3, fig. 7.

Lower Ordovician, 3 miles east of Golden in Kicking Horse Pass, British Columbia.

=*Hemigyraspis mcconnelli*, Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 41, pl. 4, fig. 4.

Holasaphus moorei Raymond

Holotype 7823; paratypes 7823a-g

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 35, pl. 3, figs. 7 [7823c], 8 [7823e], 9 [7823d], 10 [7823a], 11 [holotype 7823].

Beauhamois Formation, Lower Ordovician, near CPR station at St. Anne de Bellevue, Quebec.

Holometopus angelini Billings

Syntype 872

Billings, E.,

1862, "New Species of Lower Silurian Fossils", p. 95, figs. 85a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 95, figs. 85a, b.

Lower Ordovician, Levis, Quebec.

Holotrachelus inexpectans Cooper

Holotype 9075

Cooper, G.A., 1930, Am. J. Sci., ser. 5, vol. 20, p. 374, pl. 4, figs. 19, 20.

Whitehead Formation, Upper Ordovician, Murphy Creek, Percé, Quebec.

Homalonotus knighti Koenig

Hypotype 6209

McLearn, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 163, pl. 26, figs. 12, 13.
Moydart Formation, Upper Silurian, Arisaig, Nova Scotia.

Homotelus? elongatus Raymond

Hypotype 7748

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 22, pl. 1, fig. 5.
Hull beds, Ottawa Formation, Middle Ordovician, Chaudiere Falls, Hull, Quebec.

Hyperagnostus binodosus Kobayashi

Holotype 12747; paratype 12748

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 475, pl. 7,
figs. 2, 3.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Hyperbolochilus expansus Kobayashi

Holotype 12636

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 422, pl. 3,
fig. 1.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Hystricurus conicus see *Bathyrurus conicus**Hystricurus* cf. *genalatus* Ross

Hypotypes 12707, 12708

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 454, pl. 6,
figs. 1, 2.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate, British Columbia.

Hystricurus platypleurus Kobayashi

Holotype 12706

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 454, pl. 6,
fig. 6.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Hystricurus sp.

Fig. spec. 12709

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 455, pl. 6,
fig. 8.

McKay Group, Lower Ordovician, west side McKay Creek, 1 mile north of Sinclair Creek,
British Columbia.

Idiorhapha solitaria (Billings)

Hypotype 13274

Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 675, pl. 69, figs. 11-13.

Lower or Middle Ordovician, boulder at St. Antoine de Tilly, Quebec.

Idiorhapha solitaria (Billings)

Hypotype 16317

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 44,
pl. 35, figs. 1, 3, 4, 6, 8.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Arthropoda

Illaenid hypostome

Fig. spec. 16226

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 72, pl. 18, figs. 4, 7.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Illaenus aboynensis Whiteaves

Syntypes 3015, a, b

Whiteaves, J.F., 1895, Geol. Surv., Canada, Palaeoz. Fossils, vol. 3, pt. 2, p. 108, pl. 15, figs. 7 [3015], 8 [3015a].

Guelph Formation, Middle Silurian, Aboyne near Elora, Ontario,

Illaenus americanus Billings

Hypotypes 7757, 7758

Wilson, A. E., 1947, Geol. Surv., Canada, Bull. 9, p. 31, pl. 7, figs. 3, 4.

Cobourg beds, Ottawa Formation, Middle Ordovician, lots 10-12, con. 3, Roxborough tp. and lots 1-3, con. 8, Cornwall tp., Ontario.

Illaenus angusticollis Billings

Syntypes 1314, a-d

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 376, figs. 10 a-d.

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 151, figs. 113a-d.

Wilson, A.E., 1947, ibi d., Bull. 9, p. 32, pl. 7, figs. 10 [holotype 1314b], 11 [paratype 1314d].

Middle Ordovician, St. Joseph Island, Lake Huron, Ontario.

Illaenus arcuatus Billings

Syntypes 661, a-h

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 279, fig. 265 [661b].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 279, fig. 265.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

=*Harpillaenus arcuatus*, Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 78, pl. 21, figs. 1-3 [holotype 661b].

Illaenus bayfieldi Billings

Syntypes 1089, a-c

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 369, figs. 4-6.

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 133, figs. 65a-c.

Raymond, P.E., 1905, Ann. Carnegie Mus., vol. 3, No. 2, p. 348, pl. 13, figs. 11, 12 [1089b?].

Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 68, pl. 11, figs. 11 [1089b], 12, 13 [1089a].

Middle Ordovician [Mingan Formation], Trilobite Bay, Mingan Islands, Quebec.

Illaenus bucculentus Whittington

Holotype 16227; paratypes 16228-16230

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 72, pl. 18, figs. 6, 8-16.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Illaenus clavifrons Billings

Holotype(?) 1323

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 379.

Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 69, pl. 11, fig. 16.

Middle Ordovician [Mingan Formation], Large Island, Mingan Islands, Quebec.

Illaenus conifrons Billings

Syntype 1322

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 378, figs. 11a, b.

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 151, figs. 111a, b.

Middle Ordovician [Mingan Formation], Mingan Islands, Quebec.

= *Thaleops conifrons*, Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 73, pl. 11, fig. 10.*Illaenus conradi* Billings

Syntypes 1320, a

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 372, figs. 7-9 [1320a].

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 151, figs. 110a-c.

Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 32, pl. 7, figs. 14, 15 [holotype 132a, paratype 1320].

Middle Ordovician [Leray Beds], La petite Chaudiere, Ottawa River, above Hull, Quebec.

Illaenus consimilis Billings

Syntypes 663, a-c, h-j

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 277, figs. 263a, c [663], b [663h]; p. 331, fig. 317 [663i].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 277, figs. 263a-c; p. 331, fig. 317.

Divisions M, N [Table Head], Middle Ordovician, Table Head, Newfoundland.

Illaenus consobrinus Billings

Syntypes 676, a-e

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 280, figs. 266a, b [676c]; p. 332, figs. 320a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 280, figs. 266a, b; p. 332, figs. 320a, b.

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 71, pl. 17, figs. 1, 2, 4 [holotype 676c].

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

Illaenus consobrinus Billings

Hypotypes 16220-16225

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 71, pl. 17, figs. 3, 5-16; pl. 18, figs. 1-3, 5.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Illaenus fraternus Billings

Syntypes 665, a-e

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 276, figs. 262a [665a, e], b [665b].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 276, figs. 262a, b.

Middle Ordovician, Point Rich, Newfoundland.

Arthropoda

Illaenus globosus Billings

Syntypes 1090, a, b

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 367, figs. 1-3 [1090b].

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 133, figs. 64a-c.

Middle Ordovician [Mingan Formation], Mingan Islands, Quebec.

=*Bumastus globosus*, Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 67, pl. 11, figs. 14 [1090a], 15 [1090b].

Illaenus grandis Billings

Syntype 2322

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 380.

Middle Silurian(?), Anticosti Island, Quebec.

Illaenus milleri Billings

Syntypes 1319, a-c

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 375, fig. 10 [1319b].

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 151, fig. 112.

Middle Ordovician [Leary-Rockland beds], near L'Orignal, Ontario.

=*Bumastus milleri*, Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 35, pl. 7, figs. 1a, b [holotype 1319b].

1957, Can. Field-Naturalist vol. 70, No. 1, 1956, pl. 4, fig. 11.

=*Bumastus (Bumastoides) milleri*, Whittington, H.B., in Miller, A.K. *et al*, 1954, Geol. Soc. Amer., Mem. 62, p. 138, pl. 62, figs. 16-18, 20 [holotype 1319b], 25 [1319a], 26 [1319c], 29 [1319a].

Illaenus orbicaudatus Billings

Hypotype 2324

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 27, fig. 10.

Upper Ordovician [Ellis Bay Formation], Ellis Bay, Anticosti Island, Quebec.

=*Bumastus orbicaudatus*, Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 322 [holotype 2324].

[Note: specimen not primary as collected by T.C. Weston, 1865.]

Illaenus simulator Billings

Syntypes 890, c, d

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 327, figs. 315a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 327, figs. 315a [890d], b [890].

Middle? Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

Illaenus spiculatus Whittington

Holotype 16234; paratypes 16235-16241

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 74, pl. 19, figs. 10-18; pl. 20, figs. 1-12, 14.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Illaenus tumidifrons Billings

Syntypes 662, a-m

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 278, figs. 264a [662, a(?)],
b [662k(?)].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 278, figs. 264a, b.

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 69,
pl. 16, figs. 1-5 [lectotype 662j].

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

Illaenus tumidifrons Billings

Hypotypes 16213-16219

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 69,
pl. 15, figs. 9-13; pl. 16, figs. 6-16.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Illaenus vindex Billings

Syntype 1088

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 179, figs. 160a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 179, figs. 160a, b.

Middle Ordovician [Mingan Formation], Mingan Islands, Quebec

= *Thaleops conifrons*, Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 73,
pl. 11, fig. 9.*Illaenus* sp. indet 1 and 2

Fig. specs. 16231-16233

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 73,
pl. 19, figs. 1-9.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Ischyrophyma tuberculata Whittington

Holotype 16166; paratypes 16167-16170

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 48,
pl. 8, figs. 1-10.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Ischyrophyma sp. ind.

Fig. spec. 16161

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 50,
pl. 6, figs. 13-16.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Ischyrotoma twenhofeli Raymond

Hypotypes 16162-16165

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 45,
pl. 7, figs. 3, 5-13.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Isocolus dysdercus Whittington

Holotype 16153; paratypes 16154-16159

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 41,
pl. 5, figs. 7-10; pl. 6, figs. 1-9, 16.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Arthropoda

Isoteloides divergens Wilson

Holotype 6604

Wilson, A.E., 1932, Trans. Roy. Soc. Can., ser. 3, vol. 26, sec. 4, p. 385, pl. 3, fig. 4.
Chazy, Middle Ordovician, Bamhart Island core, near Cornwall, Ontario.

Isoteloides homalonotoides (Walcott)

Hypotype 7934

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, pl. 4, fig. 5.
Wilson, A.E., 1947, *ibid.*, Bull. 9, p. 29, pl. 1, fig. 6.
Middle Ordovician, Kirkfield, Ontario.

Isotelus arenicola Raymond

Paratypes 4328, 7423

Raymond, P.E., 1910, Ottawa Naturalist, vol. 24, No. 8, p. 130, pl. 2, fig. 5 [4328],
text fig. 1 [7423].
Chazy, Middle Ordovician, Lake Deschenes, Britannia, Ottawa, Ontario.

Isotelus covingtonensis see *Asaphus platycephalus*

Isotelus gigas DeKay

Hypotype 1786

Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 120, pl. 3, fig. 6.
Trenton, Middle Ordovician, Cobourg, Ontario.

Isotelus gigas DeKay

Hypotype 1798

Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 119, pl. 2, fig. 9.
Ordovician [Red River Formation], Inmost Island, Lake Winnipeg, Manitoba.

Isotelus gigas DeKay

Hypotypes 5591, 7750

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 24, pl. 3, figs. 2a-c, 3.
Hull beds, Ottawa Formation, Middle Ordovician, Hull, Quebec, and below bridge at
Plantagenet, Ontario.

Isotelus iowensis (Owen)

Hypotype 13251

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 24, pl. 3, fig. 4.
Leray beds, Ottawa Formation, Middle Ordovician, Mechanicsville, Ottawa, Ontario.

Isotelus latus see *Asaphus platycephalus*

Isotelus maximum Locke

Hypotype 332

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 26, pl. 3, fig. 1.
Cobourg beds?, Ottawa Formation, Middle Ordovician, Ottawa, Ontario.

Isotelus maximus Locke

Hypotype 7935

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 46, pl. 4, fig. 8.
Upper Ordovician, Hawthorne, Ontario.

Isotelus ottawaensis see *Asaphus platycephalus*

Jujuyaspis borealis Kobayashi

Holotype 12727; paratype 12728

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 467, pl. 7,
figs. 12, 13a, b.
McKay Group, Lower Ordovician, Steamboat Mountain, west of Brisco, British Columbia.

Kainella flagricauda (White)

Hypotype 11930

Kobayashi, T., 1953, Jap. J. Geol. Geog., vol. 23, p. 45, pl. 3, fig. 5.

McKay Group, Lower Ordovician, 2 miles south of mouth Sinclair Canyon, British Columbia.

Kainella kindlei Kobayashi

Holotype 12619

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 413, pl. 2, fig. 1.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Kainella stenorachis Kobayashi

Holotype 11931; paratype 11932

Kobayashi, T., 1953, Jap. J. Geol. Geog., vol. 23, p. 46, pl. 3, figs. 6, 7.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Kawina arnoldi Whittington

Holotype 16268; paratypes 16269-16271

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 93, pl. 26, figs. 7-9, 11, 12, 14; pl. 27, figs. 1, 2, 4-6, 8, 9.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Kawina limbata Whittington

Holotype 16267

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 92, pl. 26, figs. 4-6, 10.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland

See *Cheirurus mercurius* and *C. vulcanus**Kawina vulcanus* (Billings)

Hypotype 16266

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 91, pl. 26, figs. 1-3, 13; pl. 28, figs. 16-19.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

? *Kawina* sp. ind.

Fig. specs. 16289, 16290

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 95, pl. 31, figs. 2, 3, 6, 7.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

See *Cheirurus vulcanus**Kayseraspis* (?) *euclides* (Walcott)

Hypotypes 12670-12674

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 442, pl. 4, figs. 4-8.

McKay Group, Lower Ordovician, Harrogate section, British Columbia.

Kayseraspis (?) *euclides* (Walcott)

Hypotype 12675

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 442, pl. 4, fig. 9.

McKay Group, Lower Ordovician, north Vermilion Basin, British Columbia.

Arthropoda

Kayseraspis (?) *euclides* (Walcott)

Hypotypes 12676-12678

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 442, pl. 4, figs. 10-12.

McKay Group, Lower Ordovician, headwaters Pinnacle Creek, Brisco Range, British Columbia.

Kayseraspis (?) *euclides* (Walcott)

Hypotypes 12679-12681

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 442, pl. 5, figs. 8-10.

McKay Group, Lower Ordovician, southeast of Harrogate, British Columbia.

Kayseraspis (?) cf. *euclides* (Walcott)

Hypotypes 12682, 12683

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 442, pl. 5, figs. 22, 23.

McKay Group, Lower Ordovician, west side McKay Creek, 1.5 miles from Sinclair Creek, British Columbia.

Kayseraspis (?) sp.

Fig. specs. 12684, 12685

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 444, pl. 4, figs. 13, 14.

McKay Group, Lower Ordovician, north Vermilion Basin, and Rocky Mountain quartzite, Lower Ordovician, Mount Norquay, British Columbia.

Kirkella cf. *vigilans* (Whittington)

Hypotypes 12687-12693

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 445, pl. 5, figs. 12-17; pl. 8, fig. 6.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Kobayashia lanceolata Kobayashi

Holotype 12667; paratype 12668; hypotype 12669.

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 441, pl. 4, figs. 1-3.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Lachnostoma (?) sp.

Fig. spec. 12702

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 449, pl. 5, fig. 11.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Lehua argus Whittington

Holotype 16255; paratypes 16256, 16257

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 84, pl. 23, figs. 1-9, 11.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Leiostegium quadratum (Billings)

Hypotype 862e

Raymond, P.F., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 68, pl. 7, fig. 17.

Levis conglomerate, Lower Ordovician, Levis, Quebec.

Leiostegium (Evansaspis) glabrum Kobayashi

Holotype 12629; paratype 12631; hypotypes 12630, 12632-12635

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 421, pl. 2, figs. 11-17.

McKay Group, Lower Ordovician, north of Brisco Trail and 1 mile north of Harrogate, British Columbia.

Leonaspis semiglabra Poulsen

Hypotypes 15398-15404

Raasch, G.O. *et al.*, 1961, "Geology of the Arctic", vol. 1, p. 474, pl. 4, figs. 12-1 &

Middle Silurian (Road River Formation), Prong Creek, Wind River area, lat. 65°17'N, long. 135°45'W., Yukon Territory.

Lichas canadensis Billings

Holotype 2471; paratype 2471a

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 65, fig. 22 [2471].

Middle Silurian [Jupiter Formation], East Point, Anticosti Island, Quebec.

= *Amphilichas canadensis*, Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 327, pl. 57, fig. 9 [2471].= *Apatolichas* ? *anticostiensis*, Northrop, S.A., 1939, Geol. Soc. Amer., Sp. Paper 21, p. 238.*Lichas jukesii* Billings

Syntypes 671, a, c-n

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 282, figs. 269a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 282, figs. 269a, b.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland.

= *Acrolichas jukesii*, Foerste, A.F., 1920, Am. J. Sci., vol. 49, p. 41, pl. 2, fig. 1B.= *Apatolichas jukesii*, Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 106, pl. 32, figs. 4, 5 [holotype 671a].*Lichas jukesii* Billings

Hypotypes 671b, 887

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 335, figs. 323a [671b], b [887].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 335, figs. 323a, b.

Division P [Cow Head conglomerate], Middle Ordovician, Cow Head, Newfoundland and range 6, lot 20, Stanbridge tp., Quebec.

= *Acrolichas jukesii*, Foerste, A.F., 1920, Am. J. Sci., vol. 49, p. 41, pl. 2, fig. 1A [671b].*Lichas minganensis* Billings

Syntypes 1332, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 181, figs. 163a [1332], b [1332a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 181, figs. 163a, b.

Middle Ordovician [Mingan Formation], south side of Large Island, Mingan Islands, Quebec.

= *Amphilichas minganensis*, Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 75, pl. 10, figs. 10, 11.*Lichas superbus* Billings

Syntype 3605

Billings, E., 1874, Can. Naturalist Quart. J. Sci., n. ser., vol. 7, No. 4, p. 239,

Middle Devonian [Onondaga Formation], Cayuga, Ontario.

Arthropoda

Lichas (Terataspis) n. sp.

Fig. spec. 4107

Whiteaves, J.F., 1892, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 4, p. 349, pl. 46, fig. 8.

Middle Devonian [Winnipegosis Formation], Rowan Island, Dawson Bay, Lake Winnipegosis, Manitoba.

Licnocephala longa Kobayashi

Holotype 12700; paratype 12701

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 448, pl. 6, fig. 16; pl. 8, fig. 13.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Lingukainella robusta Kobayashi

Holotype 11933

Kobayashi, T., 1953, Jap. J. Geol. Geog., vol. 23, p. 48, pl. 3, fig. 8.

McKay Group, Lower Ordovician, south of Whiskey Trail, British Columbia.

Lloydia bituberculatus see *Bathyurus bituberculatus*

Lloydia saffordi (Billings)

Hypotypes 639, a

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 65, pl. 11, figs. 13, 16-18.

Middle Ordovician, Cow Head, Newfoundland.

See *Bathyurus saffordi*

Lloydia sp. indet.

Fig. spec. 716

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, pl. 7, fig. 19.

Lower Ordovician, Levis, Quebec.

Lunacrania trisecta Kobayashi

Holotype 12743

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 472, pl. 7, fig. 8.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate, British Columbia.

Macroculites enigmaticus Kobayashi

Holotype 12716

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 461, pl. 6, fig. 14.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate, British Columbia.

Macroculites (?) sp.

Fig. spec. 12717

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 462, pl. 6, figs. 15a, b.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate, British Columbia.

Megalaspis goniurus see *Asaphus goniurus*

Metabowmania latilimbata Kobayashi

Holotype 12713; hypotype 12714

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 458, pl. 6, fig. 13; pl. 8, fig. 9.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Mystrocephala stummi Fagerstrom

Holotype 14753; paratype 14754

Fagerstrom, J.A., 1961, J. Pal., vol. 35, No. 1, p. 43, pl. 14, figs. 1, 2.

Formosa reef limestone, Middle Devonian, north end road-cut 2½ miles north of Formosa, Ontario.

Mystrocephala sp.

Fig. spec. 14755

Fagerstrom, J.A., 1961, J. Pal., vol. 35, No. 1, p. 43,

Formosa reef limestone, Middle Devonian, north end road-cut 2½ miles north of Formosa, Ontario.

Neognostus aspidoides Kobayashi

Holotype 12745; paratype 12746

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 473, pl. 7, figs. 4, 5.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate, British Columbia.

Neotaenicephalus obsoleta Kobayashi

Holotype 12704

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 452, pl. 6, figs. 12a, b.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate, British Columbia.

Nileidae(?) gen. and sp. indet.

Fig. specs. 12637, 12638

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 425, pl. 5, figs. 20, 21.

Glenogle Formation, Lower Ordovician, north Vermilion Basin, British Columbia.

Nileus affinis Billings

Syntypes 889, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 275, figs. 261a, b [889a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 275, figs. 261a, b.

Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 120, pl. 3, fig. 4 [the type].

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 53, pl. 9, figs. 7, 11, 12 [889]; pl. 10, figs. 1-3,5,6 [lectotype 889a].

Lower Ordovician, Island of Orleans, Quebec.

Nileus affinis Billings

Hypotypes 16188, 16189

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 53, pl. 9, figs. 9, 10; pl. 10, figs. 4, 7, 10, 13.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Arthropoda

Nileus macrops Billings

Syntypes 649, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 273, fig. 259 [649a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 273, fig. 269.

Division N [Table Head], Middle Ordovician, Table Head, Newfoundland.

Nileus scrutator Billings

Syntypes 667, a-d, 720, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 274, fig. 260 [667a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 274, fig. 260.

Divisions N, P [Cow Head conglomerate], Middle Ordovician, 4 miles northeast of Portland Creek, and Table Head, Newfoundland.

Niobe (Niobella) homfrayi Salter

Hypotype 11199

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 103, pl. 7, fig. 7.

McLeod Brook Formation, Upper Cambrian or Lower Ordovician, McLeod Brook, Cape Breton Island, Nova Scotia.

Ogygites canadensis (Chapman)

Hypotype 1924b

Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 118, pl. 1, fig. 2.

Upper Ordovician, Collingwood, Ontario.

=*Ogygites latimarginatus*, Wilson, A.E., 1957, Can. Field-Naturalist, vol. 70, No. 1, 1956, pl. 5, fig. 2.

Ogygites canadensis (Chapman)

Hypotype 7817

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 43, pl. 6, fig. 1.

Collingwood, Upper Ordovician, Adeline Street between Preston and Rochester Streets, Ottawa, Ontario.

Onchometopus susae (Whitfield)

Hypotype 7170

Raymond, P.E., 1912, Trans. Roy. Soc. Can., ser. 3, vol. 5, sec. 4, p. 118, pl. 2, figs. 1, 2.

Ordovician [Red River Formation], East Selkirk, Manitoba.

Otarion wilsonae Sinclair

Holotype 13255

Sinclair, G.W., 1944, Trans. Roy. Soc. Can. Inst., vol. 25, pt. 1, No. 53, p. 18, pl. 1, figs. 3, 4.

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 39, pl. 8, figs. 4a, b.

Sherman Fall beds, Middle Ordovician, Eganville, Ontario.

Paenebeltella convexa Kobayashi

Holotype 12729; paratype 12730

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 468, pl. 7, fig. 21a, b; pl. 8, fig. 12.

McKay Group, Lower Ordovician, north of Brisco Trail, and south of Whiskey Trail, British Columbia.

Parabolinella bisulcata Kobayashi

Holotype 12718; paratype 12719

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 463, pl. 7, figs. 18, 19.

McKay Group, Lower Ordovician, north end Steamboat Mountain, British Columbia.

Parahystricurus (?) sp.

Fig. spec. 12710

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 455, pl. 6, fig. 7.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Peltura canadensis Kobayashi

Holotype 12726

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 466, pl. 7, fig. 20.

McKay Group, Lower Ordovician, southeast of Harrogate, British Columbia.

Peltura pacifica Kobayashi

Holotype 12722; paratypes 12723-12725

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 465, pl. 7, figs. 14-17.

Glenogle Formation, Lower Ordovician, north Vermilion Basin, British Columbia.

Perischoclonus capitalis Raymond

Hypotypes 16251-16254, 16318, 16319

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 80, pl. 22, figs. 2, 4, 6-13; pl. 35, figs. 10, 11; pl. 36, figs. 5, 7, 8.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Petigurus cybele see *Bathyurus cybele**Petigurus nero* see *Bathyurus nero**Phacops (Portlockia) marklandensis* McLearn

Paratype 6001

McLearn, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 171, pl. 28, fig. 1.

Ross Brook Formation, Middle Silurian, Arisaig, Nova Scotia.

=*Eophacops marklandensis*, Delo, D.M., 1940, Geol. Soc. Amer., Sp. Paper 29, p. 28, pl. 2, fig. 5.*Phacops orestes* Billings

Syntypes 2472, a-c

Billings, E., 1860, Can. Naturalist Geol., vol. 5, p. 65, figs. 10, a.

Middle Silurian [Jupiter Formation], East Point, Anticosti Island, Quebec.

=*Phacops (Portlockia) orestes*, Twenhofel, W.H., 1928, Geol. Surv., Canada, Mem. 154, p. 335, pl. 50, fig. 11 [2472a], 12 [2472].*Phaseolops sepositus* Whittington

Holotype 16148; paratypes 16149-16152

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 37, pl. 4, figs. 11-13; pl. 5, figs. 1-6.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Phillipsia eichwaldi Fischer

Hypotypes 4375a, 7677, a, b.

Bell, W.A., 1929, Geol. Surv., Canada, Mem. 155, p. 186, pl. 35, figs. 3-6.

Mississippian, Kennetcook River, Hants co., Nova Scotia.

Arthropoda

Phylacops vigilans Cooper and Kindle

Paratypes 8872, a

Cooper, G.A., and Kindle, C.H., 1936, *J. Pal.*, vol. 10, No. 5, p. 367, pl. 52, figs. 39, 45, 46, 51.

Whitehead Formation, Upper Ordovician, Grande Coupe and Portage Road, Gaspé, Quebec.

Platyantyx arcuata see *Bathyurus arcuatus*

Pliomerid pygidium

Fig. spec. 16139

Whittington, H.B., 1961, *J. Pal.*, vol. 35, No. 5, p. 921, pl. 101, figs. 14, 17, 20.

Upper Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Pliomerops canadensis (Billings)

Lectotype 1101; hypotype 1101d

Whittington, H.B., 1961, *J. Pal.*, vol. 35, No. 5, p. 917, pl. 101, figs. 10, 13 [1101d], 11 [1101].

Mingan Formation, Middle Ordovician, "Little Hamer Island", Mingan Islands, Quebec.

[Note: according to associated labels, specimens collected by J. Richardson, 1860, therefore doubtful if part of *Amphion canadensis* syntypic material.]

Proetus alaricus Billings

Holotype 2198

Billings, E., 1860, *Can. Naturalist Geol.*, vol. 5, p. 68, fig. 12.

Logan, W.E., 1863, "Geology of Canada", *Geol. Surv., Canada, Rept. Prog.*, p. 219, fig. 230.

Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 325, pl. 51, fig. 8.

Upper Ordovician [English Head Formation], Carleton Point, Anticosti Island, Quebec.

Proetus chambliensis Foerste

Syntypes 8435 [several specimens on one slab]

Foerste, A.F.,

1914, *Denison Univ. Bull. J. Sci. Lab.*, vol. 17, p. 320, pl. 4, figs. 1a-h.

1924, *Geol. Surv., Canada, Mem.* 138, p. 243, pl. 46, fig. 7.

Upper Ordovician, Chambly Canton, Quebec.

Proetus (Crassiproetus) crassimarginata (Hall)

Paratype 14757

Fagerstrom, J.A., 1961, *J. Pal.*, vol. 35, No. 1, p. 41, pl. 14, fig. 9.

Formosa reef limestone, Middle Devonian, just east of bridge at Formosa, Ontario.

Proetus haldemani Hall

Hypotypes 4282, a-e, g

Whiteaves, J.F., 1891, *Geol. Surv., Canada, Contr. Can. Pal.*, vol. 1, pt. 3, p. 246, pl. 31, figs. 6 [4282b], 7 [4282a], 8 [4282].

Upper Devonian, Grand View, Mackenzie River, Northwest Territories.

Proetus manitobensis McCammon

Holotype 14910; paratypes 14911-14916

McCammon, H., 1960, *Manitoba Dept. Mines Natural Res., Mines Branch, Publ.* 69-6, p. 75, pl. 13, figs. 1-5a, b.

Dawson Bay Formation, Middle Devonian, 2 miles west of Nina Lake along road to The Narrows, Lake Manitoba, sec. 24, tp. 24, rge. 10, W. Prin. mer.; north side Charlie Island, Lake Winnipegosis; north bank Red Deer River 100 yards west of Highway 10 bridge between The Pas and Mafeking, 1.s.d. 7, sec. 17, tp. 45, rge. 25, W. Prin. mer.; and Snake Island, Lake Winnipegosis, Manitoba.

Proetus mundulus Whiteaves

Syntypes 4113, a-k, 4114, a, 4115, 4116, a, 4117-4122, 4127.

Whiteaves, J.F., 1892, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 4, p. 350, pl. 46, figs. 10, 11 [4113a].

Middle Devonian [Winnipegosis and Dawson Bay Formations], island north of Whiteaves Point; islands in southern portion of Dawson Bay; Devil Point, Lake Winnipegosis; and Red Deer River, Manitoba.

=*Proetus manitobensis*, McCammon, H., 1960. Manitoba Dept. Mines Natural Res., Mines Branch, Publ. 59-6. p. 75 [hypotypes 4119-4122].

Proetus phocion Billings

Syntypes 3337, a-e

Billings, E., 1874, Geol. Surv., Canada, Palaeoz. Fossils, vol. 2, pt. 1, p. 63, fig. 31. Devonian [Grande Greve Formation], Indian Cove, Gaspé, Quebec.

Protopliomerops longispinus Kobayashi

Holotype 12625

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 417, pl. 2, fig. 7.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Protopliomerops radiatus Koboyashi

Holotype 12623; paratype 12624

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 416, pl. 2, figs. 5a, b, 6.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Protopliomerops subquadratus Kobayashi

Holotype 12621; paratype 12622

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 414, pl. 2, figs. 3, 4.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Protopresbynileus (?) aff. *willdeni* (Hintze)

Hypotypes 12694-12696

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 446, pl. 5, figs. 18, 19; pl. 8, fig. 15.

McKay Group, Lower Ordovician, McKay Creek and Harrogate section, British Columbia.

Psephosthenaspis strenua (Billings)

Hypotype 13273

Whittington, H.B., 1953, J. Pal., vol. 27, No. 5, p. 674, pl. 67, figs. 24, 28, 29.

Lower or Middle Ordovician, boulder at St. Antoine de Tilly, Quebec.

Pseudomera barrandei see *Amphion barrandei**Pseudomera billingsi* Whittington

Holotype 16136; hypotypes 16137, 16138

Whittington, H.B., 1961, J. Pal., vol. 35, No. 5, p. 919, pl. 101, figs. 1-9.

Upper Cow Head Group, Middle Ordovician, boulder, Lower Head, Newfoundland.

Pseudosphaerexochus apollo (Billings)

Hypotypes 8441, 8442

Raymond, P.E., 1913, Geol. Surv., Canada, Mus. Bull. 1, p. 36, pl. 4, figs. 1 [8841], 2 [8842].

Lower Ordovician, Levis, Quebec.

Arthropoda

Pseudosphaerexochus canadensis see *Sphaerexochus canadensis*

Pseudosphaerexochus vulcanus var. *billingsi* see *Cheirurus vulcanus*

Pterygometopus achates (Billings)

Hypotype 3384

Raymond, P.E., 1921, Geol. Surv., Canada, Mus. Bull. 31, p. 38, pl. 11, fig. 3.
Cobourg Formation, Middle Ordovician, cement quarry at Picton, Ontario.

Pterygometopus billingsi (Sinclair)

Hypotype 7764

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 55, pl. 10, figs. 4a, b.
Sherman Fall beds, Ottawa Formation, Middle Ordovician, Axe factory, Hull, Quebec.

Pygidium gen. indet 1-4

Fig. specs. 16291-16297

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, pp. 95-97,
pl. 31, figs. 4, 5, 8-17, 19, 20.
Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Raymondites ingalli see *Bathyrurus ingalli*

Remopleurides affinis Billings

Syntypes 881, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 325, fig. 313.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 325, fig. 313 [881c?].

Lower Ordovician, lot 20, range 6, Stanbridge tp., Quebec.

Remopleurides canadensis Billings

Holotype 1760

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 182, fig. 164.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 182, fig. 164.

Chazy, Middle Ordovician, Front con., Clarence tp., Ontario.

Remopleurides ligulus Whittington

Holotype 16145; paratypes 16146, 16147

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 36,
pl. 4, figs. 1-10.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Remopleurides? schlotheimi Billings

Syntypes 694, a-d. 695

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 294, figs. 284a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 294, figs. 284a, b.

Middle Ordovician, Pistolet and Bonne Bay, Newfoundland.

Remopleurides striatulus Walcott

Hypotype 3758

Raymond, P.E., 1921, Geol. Surv., Canada, Mus. Bull. 31, p. 31, pl. 9, fig. 7.
Middle Trenton, Middle Ordovician, Trenton, Ontario.

Remopleurides sp. indet.

Fig. spec. 8871

Cooper, G.A., and Kindle, C.H., 1936, J. Pal., vol. 10, No. 5, p. 363, pl. 52, figs. 20,
31.

Whitehead Formation, Upper Ordovician, Grande Coupe, Gaspé, Quebec.

Rhamphopyge altipolum Kobayashi

Holotype 12744

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 473, pl. 6, figs. 9a, b.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest Harrogate, British Columbia.

Scotiella logani see *Dalmanitina logani**Scotiella logani* var. *conservatrix* see *Dalmanitina logani* var. *conservatrix**Scutellum borealis* (Poulsen)

Hypotypes 15408-15411

Raasch, G.O. et al., 1961, "Geology of the Arctic", vol. 1, p. 477, pl. 5, figs. 7-10.

Norford, B.S., 1962, Geol. Surv., Canada, Paper 62-14, p. 20, pl. 8, fig. 7 [15411].

Middle Silurian [Road River Formation], Prong Creek, Wind River area, lat. 65°17'N, long. 135°45'W., Yukon Territory.

Selenoharpes vitilis Whittington

Holotype 16176; paratypes 16177, 16179-16182

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 32, pl. 2, figs. 4-8; pl. 3, figs. 2-4, 6-11.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Selenoharpes vitilis Whittington?

Hypotype 16178

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 34, pl. 3, figs. 1, 5.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

Shumardia glacialis Billings

Syntypes 670, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 283, fig. 270.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 283, fig. 270.

Division P [Cow Head conglomerate], Middle Ordovician, Portland Creek and Pistolet Bay, Newfoundland.

Shumardia granulosa Billings

Syntypes 880 [several specimens on one slab]

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 92, figs. 83a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 92, figs. 83a, b.

Lower Ordovician, Levis, Quebec.

Shumardia sp.

Fig. spec. 12742

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 471, pl. 7, fig. 9.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Sphaeragnostus gaspensis Cooper and Kindle

Syntypes 8868, a, b

Cooper, G.A., and Kindle, C.H., 1936, J. Pal., vol. 10, No. 5, p. 361, pl. 52, figs. 22, 23, 35.

Whitehead Formation, Upper Ordovician, Grande Coupe and Priest's Road, Percé, Quebec.

Arthropoda

Sphaerexochus bridgei Cooper and Kindle

Syntype 8876

Cooper, G.A. and Kindle, C.H., 1936, J. Pal., vol. 10, No. 5, p. 371.

Whitehead Formation, Upper Ordovician, Priest's Road, Percé, Quebec.

Sphaerexochus canadensis Billings

Syntypes 2557, a

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 64, fig. 21.

Middle Silurian [Chicotte Formation], Southwest Point, Anticosti Island, Quebec.

=*Pseudosphaerexochus canadensis*, Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 335, pl. 50, fig. 13 [holotype 2557a].

Sphaerexochus parvus Billings

Syntype 1093

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 133, fig. 66.

Chazy, Middle Ordovician, Island of Montreal near Mile End, Quebec.

Sphaerexochus parvus Billings

Hypotype 1330

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 180, figs. 161a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 180, figs. 161a, b.

Twenhofel, W.H., 1938, Geol. Soc. Amer., Sp. Paper 11, p. 76, pl. 10, fig. 12 [holotype].

Middle Ordovician [Mingan Formation], south side of Large Island, Mingan Islands, Quebec.

Sphaerocoryphe robusta Walcott

Hypotype 13260

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 52, pl. 10, fig. 1.

Sherman Fall beds, Ottawa Formation, Middle Ordovician, Brewery Creek, Hull, Quebec.

Sphaerocoryphe salteri Billings

Syntypes 2328, a, b

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 63,

Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 331, pl. 51, figs. 6 [2328], 7 [2328a].

Upper Ordovician [Ellis Bay Formation], Junction Cliff, Anticosti Island, Quebec.

Sphaerocoryphe sp.

Fig. spec. 8877

Cooper, G.A. and Kindle, C.H., 1936, J. Pal., vol. 10, No. 5, p. 371, pl. 53, figs. 4, 11.

Whitehead Formation, Upper Ordovician, Priest's Road, Percé, Quebec.

Sphaerophthalmella inexpectans Kobayashi

Holotype 12720; paratype 12721

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 464, pl. 7, figs. 10a, b, 11.

McKay Group, Lower Ordovician, north end Steamboat Mountain, British Columbia.

Symphysops spinifera Cooper and Kindle

Paratypes 8863, a

Cooper, G.A. and Kindle, C.H., 1936, J. Pal., vol. 10, No. 5, p. 367, pl. 53, figs. 3, 9, 10, 12, 24.

Whitehead Formation, Upper Ordovician, Grande Coupe, Gaspé, Quebec.

Symphysurina (Symphysurina) cf. corlissensis (Raymond)

Hypotype 12642

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 431, pl. 7, figs. 22a, b.

McKay Group, Lower Ordovician, Jubilee Mountain southwest of Harrogate, British Columbia.

Symphysurina (Symphysurina) spicata Ulrich

Hypotypes 12639, 12640

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 430, pl. 3, figs. 8, 9.

McKay Group, Lower Ordovician, Steamboat Mountain, west of Brisco, British Columbia.

Symphysurina (Symphysurina) spicata var. *eugenia* Walcott

Hypotype 12641

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 430, pl. 3, fig. 22.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate, British Columbia.

Symphysurina spicata Ulrich

Hypotype 8720

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 164, pl. 21, fig. 15.

Lower Ordovician (?), Squaw Mountain north of Tatonduk River, Yukon-Alaska boundary.

Symphysurina (Symphysurina) tatondukensis see *Symphysurina* aff. *S. woosteri**Symphysurina walcotti* Kindle

Holotype 9378

Kindle, C.H., 1929, Can. Field-Naturalist, vol. 43, No. 7, p. 146, fig. 18.

Lower Ordovician, Swift's Ranch, 7 miles north of Jasper, British Columbia.

Symphysurina aff. *S. woosteri* Ulrich

Hypotypes 8722, a-c

Kobayashi, T., 1936, J. Pal., vol. 10, No. 3, p. 164, pl. 21, figs. 9, 10 [8722b], 11 [8722a], 12, 13 [8722c], 14 [8722].

Lower Ordovician, Jones Ridge north of Tatonduk River, Yukon-Alaska boundary.

= *Symphysurina (Symphysurina) tatondukensis*, Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 429 [syntypes 8722, a-c].*Symphysurina* 'a' sp.

Fig. specs. 12652, 12653

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 433, pl. 3, figs. 10, 11.

McKay Group, Lower Ordovician, north end Steamboat Mountain, west of Brisco, British Columbia.

Symphysurina 'b' sp.

Fig. specs. 12654-12656

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 433, pl. 3, figs. 12-14.

McKay Group, Lower Ordovician, 2 miles south of Sinclair Creek, McKay Creek and north of Brisco Trail, British Columbia.

Symphysurina (Symphysuroides) cf. brevispicata Hintze

Hypotypes 12648-12651

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 433, pl. 3, figs. 15-18.

McKay Group, Lower Ordovician, McKay Creek and 2 miles south of Sinclair Creek, British Columbia.

Arthropoda

Symphysurina (Symphysuroides) elegans Poulsen

Hypotypes 12643-12645

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 432, pl. 3, figs. 19-21.

McKay Group, Lower Ordovician, west side McKay Creek, 1 mile north of Sinclair Creek, British Columbia.

Symphysurina (Symphysuroides) expansa Kobayashi

Holotype 12646; paratype 12647

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 432, pl. 3, figs. 6a, b, 7.

McKay Group, Lower Ordovician, Jubilee Mountain, southwest of Harrogate, British Columbia.

Symphysurus illaenoides see *Asaphus illaenoides*

Telephus americanus Billings

Syntypes 699, a-e, 700, a, b

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 291, fig. 281 [700b].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 291, fig. 281.

Hadding, A., 1913, Geol. fören Förhandle, vol. 35, No. 1, p. 41, pl. 1, fig. 11; text figs. 1a, b [700b].

Ulrich, E.O., 1930, Proc. U.S., National Mus., vol. 76, Art. 21, pl. 2, figs. 22, 23 [holotype 700b], 24 [699], 25 [700a], 26 [700], 27 [699e].

Middle Ordovician, 4 miles northeast of Portland Creek and Table Head, Newfoundland.

Telephus pacificus Kobayashi

Holotype 12627; hypotype 12628

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 419, pl. 2, figs. 9a, b, 10.

Glenogle Formation, Middle Ordovician, Vermilion Basin, British Columbia.

Tesselacauda flabella Kobayashi

Holotype 12626

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 417, pl. 2, figs. 8a, b.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Thaleops conifrons see *Illaenus conifrons* and *Illaenus vindex*

Thaleops ovata Conrad

Hypotype 1321

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 36, pl. 7, figs. 16a, b.

Leray beds, Ottawa Formation, Middle Ordovician, Mechanicsville, Ottawa, Ontario.

Tostonia cf. *iole* Walcott

Hypotypes 9376, a, b

Kindle, C.H., 1929, Can. Field-Naturalist, vol. 43, No. 7, p. 146, figs. 13-15.

Lower Ordovician, Swift's Ranch, 7 miles north of Jasper, British Columbia.

Tretaspis elevata Cooper and Kindle

Paratype 8869

Cooper, G.A., and Kindle, C.H., 1936, J. Pal., vol. 10, No. 5, p. 361.

Whitehead Formation, Upper Ordovician, Priest's Road, Percé, Quebec.

Triarthrus belli Matthew

Holotype 7351

Matthew, G.W., 1900, Bull. Natural Hist. Soc., New Brunswick, vol. 4, p. 412, pl. 18, fig. 8.

Hutchinson, R.D., 1952, Geol. Surv., Canada, Mem. 263, p. 83, pl. 3, fig. 15.

McLeod Brook Formation, Lower Ordovician, McLeod Brook, Cape Breton Island, Nova Scotia.

Triarthrus fischeri Billings

Syntypes 678, a-i

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 291, fig. 280 [678a].

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 291, fig. 280.

Division N [Table Head], Middle Ordovician, Pistolet Bay, Newfoundland.

Triarthrus glaber Billings

Syntypes 1939, e, h

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 382.

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 202, fig. 198 [1939 + 1939h].

Upper Ordovician, Quiatchouan River, Lake St. John, Quebec.

Triarthrus spinosus Billings

Hypotypes 13615, 13616

Wilson, A.E., 1957, Can. Field-Naturalist, vol. 70, No. 1, 1956, pl. 5, figs. 3, 4.

Upper Ordovician, Gloucester tp., Ontario.

Trinodus priscus Kobayashi

Holotype 12751

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 476, pl. 7, fig. 6.

McKay Group, Lower Ordovician, McKay Creek, British Columbia.

Trinodus tardiformis Kobayashi

Holotype 12752

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 476, pl. 7, figs. 7a, b.

Glenogle Formation, Middle Ordovician, Vermilion Basin, British Columbia.

Uromystrum formosum (Billings)

Hypotypes 16202, 16203

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 60, pl. 12, figs. 11, 14; pl. 13, figs. 3, 5, 6.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

See *Bathyurellus formosus**Uromystrum fraternum* (Billings)

Hypotypes 16200, 16201

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 58, pl. 12, figs. 4-6, 12 13.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

See *Bathyurellus fraternus**Uromystrum patulum* Whittington

Holotype 16204; paratypes 16205, a

Whittington, H.B., 1963, Bull. Mus. Comp. Zoology Harvard, vol. 129, No. 1, p. 61, pl. 13, figs. 7-11; pl. 14, figs. 1, 2.

Cow Head Group, Middle Ordovician, boulder at Lower Head, Newfoundland.

See *Bathyurellus formosus*

Arthropoda

Uromystrum validum see *Bathyuirellus validus*

Vermilionites bisulcatus Kobayashi

Holotype 12705

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, p. 453, pl. 6, fig. 4.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Vogdesia sinclairi Wilson

Holotype 13252

Wilson, A.E., 1947, Geol. Surv., Canada, Bull. 9, p. 30, pl. 7, figs. 2a, b.

Leary beds, Ottawa Formation, Middle Ordovician, west of Cumberland, Ontario.

Trilobite, gen. and sp. indet.

Fig. spec. 12753

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, pl. 8, fig. 7.

McKay Group, Lower Ordovician, west side of McKay Creek, 1 mile north of Sinclair Creek, British Columbia.

Trilobite, gen. and sp. indet.

Fig. spec. 12754

Kobayashi, T., 1955, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, pt. 3, pl. 8, fig. 16.

McKay Group, Lower Ordovician, north of Brisco Trail, British Columbia.

Trilobites

Fig. specs. 9379-9382

Kindle, C.H., 1929, Can. Field-Naturalist, vol. 43, No. 7, p. 146, figs. 19-22.

Lower Ordovician, Swift's Ranch, 7 miles north of Jasper, British Columbia.

Trilobite pygidium

Fig. spec. 15072

Whittington, H.B., in Boucot, A.J. et al., Geol. Surv., Canada, Bull. 65, p. 40, pl. 9, figs. 1-3.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

ARTHROPODA-MEROSTOMATA-XIPHOSURA

Belinurus grandaevus Jones and Woodward

Syntypes 10391, 10400

Jones, T.R. and Woodward, H., 1899, Geol. Mag., ser. 4, vol. 6, p. 387, pl. 15, figs. 2, 3.

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 48, pl. 16, figs. 1, 6 [lectotype 10391, paratype 10400].

Riversdale Group, Pennsylvanian, 3rd railway cut east of Riversdale station, Nova Scotia.

Belinurus grandaevus Jones and Woodward

Hypotypes 12804a-c, 12805, 12806

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 48, pl. 16, figs. 3-5, 7, 8.

Canso Group, Upper Carboniferous, over Reptile tracks and west of Partridge Island, West Bay, Parrsboro, Nova Scotia.

Belinurus reginae Baily

Hypotypes 12802, 12803a, b

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 48, pl. 16, figs. 2, 9, 10.

Canso Group, Upper Carboniferous, east of Ottawa House and over Reptile tracks, West Bay, Parrsboro, Nova Scotia.

Cyclus subcircularis Bell

Holotype 7642

Bell, W.A., 1929, Geol. Surv., Canada, Mem. 155, p. 187, pl. 35, fig. 7.

Mississippian, Windsor, Nova Scotia.

Euproops amiae Woodward

Syntypes 10393, 10398, 12807

Woodward, H., 1918, Geol. Mag., n. ser., dec. 6, vol. 5, No. 10, p. 465, figs. 2-4.

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 49, pl. 17, figs. 1, 2, 6 [lectotype 10393; paratypes 10398, 12807].

Pictou Group, Pennsylvanian, Donkin No. 6, Caledonia No. 4 pits, Glace Bay Mines, Cape Breton Island, Nova Scotia.

Euproops amiae Woodward

Hypotypes 12808a-e

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 49, pl. 17, figs. 3-5, 7, 8.

Pictou Group, Pennsylvanian, Donkin No. 6 pit, Glace Bay Mines, Cape Breton Island, Nova Scotia.

Euproops cf. *danae* (Meek and Worthen)

Hypotype 12828, 12860

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 49, pl. 17, fig. 9; pl. 21, fig. 1.

Canso Group, Upper Carboniferous, shore section ½ mile north of Margaree Harbour and Black River Station, Nova Scotia.

Arthropoda

Euproops thompsoni Raymond

Hypotypes 13312-13314

Copeland, M.J., 1957, J. Pal., vol. 31, No. 3, p. 598, pl. 67, fi gs. 7, 9, 10.

Windsor Group, Mississippian, near Wallace, Cumberland co., Nova Scotia.

Euproops sp.

Fig. specs. 13310, 13311

Copeland, M.J., 1957, J. Pal., vol. 31, No. 3, p. 597, pl. 67, fi gs. 6, 8.

Windsor Group, Mississippian, Kentville Creek at Limestone Point on Pugwash Basin, Cumberland co., Nova Scotia.

ARTHROPODA-MEROSTOMATA-EURYPTERIDA

"*Angustidatus*" *seriatus* Cooper

Hypotype 13449, a, b

Harker, P. and Raasch, G.O., 1958, "Jurassic and Carboniferous of Western Canada", Am. Assoc. Petrol. Geol., pl. 1, No. 11,

Banff Formation, Mississippian, Gulf Rumsey No. 6-30 well, depth 5,200-5,225 feet, l.s.d. 6, sec. 30, tp. 33, rge. 20, W. 4th mer., Alberta.

=*Angustidontus* sp., Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 37, pl. 10, fi g. 3.

Angustidontus weihmannae Copeland and Bolton

Holotype 14013; paratype 14013a

Copeland M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 38, pl. 10, Nos. 1, 2.

Ireton Formation, Woodbend Group, Upper Devonian, Gulf Sachs No. 10 well, depth 7,717.5-7,720 feet, l.s.d. 10. sec. 36, tp. 43, rge. 1, W. 5th mer., Alberta.

Carcinosoma libertyi Copeland and Bolton

Holotype 13984, a [obverse and reverse]

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 26, pl. 2, Nos. 1-4; fig. 7.

St. Edmund Formation, Middle Silurian, west of Gore Bay village, Manitoulin Island, Ontario.

Carcinosoma? sp.

Fig. spec. 14558

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 53, pl. 12, fig. 1.

Allen Bay Formation, Upper Silurian, 3.2 miles west-northwest along coast from Cape Majendie Point, Grinnell Peninsula, Devon Island, Arctic.

Eurypterid? remains

Fig. spec. 14559

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 54, pl. 11, figs. 4, 5.

Allen Bay Formation, Upper Silurian, 3.2 miles west-northwest along coast from Cape Majendie Point, Grinnell Peninsula, Devon Island, Arctic.

Eurypterus boylei Whiteaves

Holotype 2910

Whiteaves, J.F., 1884, Geol. Surv., Canada, Palaeoz. Fossils, vol. 3, pt. 1, p. 42, pl. 7, fig. 3.

Guelph Formation, Middle Silurian, Elora, Ontario.

= *Tylopterus boylei*, Clarke, J.M. and Ruedemann, R., 1912, N.Y. State Mus., Mem. 14, p. 218, fig. 42.= *Tylopterella boylei*, Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 35, pl. 6, No. 3.*Eurypterus (Anthraconectes) brasdorensis* Bell

Holotype 9649

Bell, W.A., 1922, Trans. Roy. Soc. Can., ser. 3, vol. 16, sec. 4, p. 164, pl. 1, fig. 11.

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 50, pl. 9, fig. 7.

Pictou Group, Pennsylvanian, New Campbellton seam, near Sydney, Nova Scotia.

Eurypterus dekeyi Hall

Hypotype 13996

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 29, pl. 6, No. 2.

Bertie Formation, Upper Silurian, Canada Southern Railway, Bertie tp., Welland co., Ontario.

Eurypterus fischeri Eichwald

Hypotypes 13997-14001, 14003, 14004, a, b, d

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 30, pl. 7, Nos. 1-5, 7, 8; pl. 8, Nos. 5a, b, d; pl. 9, No. 1.

Unit 14, Member A, Reed Bay Formation, Upper Silurian, Goodsir Creek, central east coast Cornwallis Island, Arctic.

Eurypterus fischeri rectangularis Schmidt

Hypotype 1400c

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 30, pl. 8, No. 5c.

Unit 14, Member A, Reed Bay Formation, Upper Silurian, Goodsir Creek, central east coast Cornwallis Island, Arctic.

Eurypterus lacustris Harlan

Hypotypes 13985-13990, 13992, 13995

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 31, pl. 3, Nos. 1-5; pl. 4, Nos. 2, 3; pl. 5, Nos. 1-3; pl. 6, No. 1.

Bertie Formation, Upper Silurian, lot 5, con. 10, lot 2, con. 13 and lot 4, con. 10, Bertie tp., Welland co.; Canada Southern Railway near Bertie; and quarry behind Ridgeway, Ontario.

Eurypterus laticeps Schmidt

Hypotype 14002

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 32, pl. 7, No. 6.

Unit 14, member A, Reed Bay Formation, Upper Silurian, Goodsir Creek, central east coast Cornwallis Island, Arctic.

Arthropoda

Eurypterus remipes DeKay

Hypotype 3224c

Logan, W.E., 1863, "Geology of Canada", Geol. Surv., Canada, Rept. Prog., p. 959, fig. 464.

Bertie Formation, Upper Silurian, lot 5, con. 10, Bertie tp., Welland co., Ontario.

=*Eurypterus lacustris*, Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 31, pl. 4, fig. 1.

Eurypterus remipes DeKay

Hypotype 3224g

Kindle, E.M., 1934, Trans. Roy. Soc. Can., ser. 3, vol. 28, sec. 4, p. 45, fig. 2 [top].

Bertie Formation, Upper Silurian, lot 5, con. 10, Bertie tp., Welland co., Ontario.

Eurypterus remipes DeKay

Hypotype 9145

Kindle, E.M., 1934, Trans. Roy. Soc. Can., ser. 3, vol. 28, sec. 4, p. 44, fig. 1.

Gascons Formation, Middle Silurian, 11/3 miles south of Port Daniel, Bay of Chaleur, Quebec.

=*Eurypterus remipes quebecensis*, Kjellesvig-Waering, E.N., 1958, J. Pal., vol. 32, No. 6, p. 1130, pl. 146, fig. 2.

Eurypterus sp.

Fig. specs. 12827a-c

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 50, pl. 16, figs. 11-13.

Parrsboro Formation, Riversdale Group, Pennsylvanian, 2 mile above mouth Harrington River, 10 miles east of Parrsboro, Nova Scotia.

Eusarcus logani Williams

Syntypes 3759, a-f

Williams, M.Y., 1915, Geol. Surv., Canada, Mus. Bull. 20, p. 8, pl. 3, figs. 2-6; pl. 4, figs. 1, 2; pl. 5, figs. 1-5.

Eramosa Member, Lockport Formation, Middle Silurian, east of Guelph, Ontario.

Pterygotus atlanticus Clarke and Ruedemann

Syntypes 3239, a-c

Clarke, J.M. and Ruedemann, R., 1912, N.Y. State Mus., Mem. 14, p. 356, pl. 79, figs. 3-5.

Russell, L.S., 1954, Nat. Mus. Can., Bull. 132, p. 86, pl. 1, fig. 4; pl. 2, fig. 2.

Lower Devonian, Campbellton, New Brunswick.

Pterygotus cummingsi Grote and Pitt

Hypotype 13991

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 32, pl. 4, No. 4.

Bertie Formation, Upper Silurian, North Buffalo, New York, U.S.A.

Pterygotus gaspensiensis Russell

Paratype 10326

Russell, L.S., 1954, Nat. Mus. Can., Bull. 132, p. 86, pl. 2, fig. 3.

Battery Point Formation, Gaspé sandstone series, Middle Devonian, D'Aiguillon, Cap des Rosiers tp., Quebec.

Pterygotus sp. 1

Fig. spec. 14010

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 33, pl. 9, Nos. 2, 3.

Escuminac Formation, Upper Devonian, Scaumenac Bay, Chaleur Bay, Quebec.

Pterygotus ? sp. 2

Fig. spec. 14012

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 34, fig. 8.

Upper Silurian, on Lesseps Brook 1050 paces downstream from the junction of the Lake Ste. Ann road, Gaspé co., Quebec.

ARTHROPODA-ARACHNIDA

Anthracomartus sp.

Fig. spec. 12786

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 50, pl. 11, fig. 4.

Canso? Group, Upper Carboniferous, ½ mile south of Black Point on east side of Cumberland Basin, Nova Scotia.

Eoscorpius sp.

Fig. spec. 12778

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 51, pl. 15, figs. 4, 5.

Pennsylvanian, Stellarton coalfield, Nova Scotia.

ARTHROPODA-BRANCHIOPODA

Asmussia alta (Raymond)

Hypotypes 12799, 12800

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 37, pl. 5, figs. 3, 8.

Bell, W.A., 1960, *ibid.*, Mem. 314, p. 46, pl. 23, fig. 1 [12799].

Horton and Stellarton (Pictou) Group, Pennsylvanian, near Petit de Grat and Coalburn borehole 529', Nova Scotia.

Asmussia canadensis see *Estheria canadensis**Asmussia* sp. cf. *A. membranacea* Pacht

Hypotype 15185

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 14.

Melville Island Formation, Middle or Upper Devonian, west coast in talus at Kelly Point south of Purchase Bay, Melville Island, Arctic.

Asmussia sp. cf. *A. pogrebovi*? (Lutkevich)

Hypotype 15185a

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 14,

Melville Island Formation, Middle or Upper Devonian, west coast in talus at Kelly Point south of Purchase Bay, Melville Island, Arctic.

Asmussia tenella (Bronn)

Hypotype 12853

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 38, pl. 5, fig. 6.

Canso Group, Upper Carboniferous, McLellan Brook, Nova Scotia.

Cyclestherioides blackstonensis (Raymond)

Hypotype 12851 [Missing]

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 40, pl. 5, fig. 4.

Alma Formation, Canso Group, near Alma, Nova Scotia.

Arthropoda

Eoleaia elongata Copeland

Holotype 10399

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 37, pl. 7, fig. 8.
Riversdale Group, Pennsylvanian, west branch North River, Nova Scotia.

Eoleaia laevicostata (Raymond)

Hypotype 14385

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 48, pl. 24, fig. 3.
Cheverie Formation, Horton Group, Mississippian, south of Blue Beach fault zone, Horton Bluff, Nova Scotia.

Eoleaia leiaiformis (Raymond)

Hypotypes 14380-14385, 14415

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 47, pl. 22, fig. 6; pl. 23, figs. 3-5, 7, 9; pl. 24, figs. 7, 8.

Cheverie and Horton Bluff Formations, Horton Group, Mississippian, on shore Avon River opposite Horton Bluff; Harding (Angus) Brook, Gaspereau Valley, Kings co.; and Arichat Harbour near head on south side and about 2,000 feet west of head of harbour, Nova Scotia.

Erisopsis belli Raymond

Holotype 9450

Raymond, P.E., 1946, Bull. Mus. Comp. Zool. Harvard, vol. 96, No. 3, p. 234, pl. 1, fig. 6.

Cheverie Formation, Horton Group, Mississippian, shore southwest of Cheverie on Avon River, opposite Horton Bluff, Nova Scotia.

=*Euestheria belli*, Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 34, pl. 22, fig. 8.

Estheria bellula Whiteaves

Holotype 4812a; paratype 4812

Whiteaves, J.F., 1889, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 2, p. 162, pl. 21, figs. 7, a.

Lower Cretaceous [Jurassic], Rink Rapids, Lewes River, Yukon.

Estheria canadensis Lambe

Syntypes 10000 [numerous specimens on one slab]

Lambe, L.M., 1910, Report on the Dominion of Canada Expedition to the Arctic Islands and Hudson Strait on Board the D.S.G. *Arctic*, J.E. Bernier, Appendix A, p. 482.

"Carboniferous" (Middle or Upper Devonian), ravine 4 miles northeast of Cape Providence, south coast of Melville Island, Arctic.

=*Asmussia canadensis*, Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 13, pl. 3, figs. 1, 2 [lectotype 10000; paratypes 10000a].

Euestheria belli (Raymond)

Hypotype 14407

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 45, pl. 22, fig. 4.

Horton Group, Mississippian, Arichat Harbour, Petit de Grat Island, Nova Scotia.

Euestheria dawsoni (Jones)

Hypotype 12852

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 38, pl. 5, figs. 5, 9.

Canso Group, Upper Carboniferous, near Parrsboro, Nova Scotia.

Euestheria dawsoni (Jones)

Hypotype 14373

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 44, pl. 24, fig. 1.

Cheverie Formation, Horton Group, Mississippian, on shore Avon River opposite Horton Bluff, Nova Scotia.

Euestheria lirella Bell

Holotype 14386; paratypes 14387-14390

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 45, pl. 22, figs. 1-3, 5, 7.

Horton Group, Mississippian, near head on south side Arichat Harbour, Nova Scotia.

Euestheris cf. dawsoni (Jones)

Hypotype 12814

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 38, pl. 5, fig. 9.

Pictou Group, Pennsylvanian, McLellan Brook, Pictou co., Nova Scotia.

Euestheria raymondi Copeland

Holotype 10395; paratype 12797

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 38, pl. 5, figs. 1, 2.

Lower Mississippian (or Canso Group, Upper Carboniferous), north branch Becaguimec River, about 1 mile above Cloverdale, New Brunswick.

Leaia acutangularis (Raymond)

Hypotype 12819

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 36, pl. 8, fig. 3.

Canso Group, Upper Carboniferous, Brown's Brook, Nova Scotia.

Leaia acutilirata Copeland

Holotype 10396

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 36, pl. 7, fig. 3.

Canso Group, Upper Carboniferous, McKay Brook, Nova Scotia.

Leaia baentschiana (Beyrich)

Hypotype 12793, 12809, 12816, 12824, 12825a, 12854, 12855, 12857

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 34, pl. 4, fig. 10; pl. 6, figs. 3, 4; pl. 7, figs. 1, 9; pl. 8, figs. 1, 2, 4.

Canso Group, Upper Carboniferous, 1500' above base type section, Strait of Canso, on Sutherland River below Ross' bridge near Lismore, Nova Scotia, and point north of Cape Enrage, New Brunswick; Riversdale Group, Pennsylvanian, west branch of North River, Nova Scotia.

Leaia laevicostata Raymond

Holotype 9449

Raymond, P.E., 1946, Bull. Mus. Comp. Zool. Harvard, vol. 96, No. 3, p. 282, fig. 5.

Cheverie Formation, Horton Group, Mississippian, on shore Avon River opposite Horton Bluff, Nova Scotia.

=*Eoleaia laevicostata*, Kobayashi, T., 1954, J. Fac. Sci., Univ. Tokyo, sec. 2, vol. 9, No. 1, p. 140, fig. 30b.

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 48, pl. 24, fig. 6.

Leaia laevis (Raymond)

Hypotype 12817

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 35, pl. 7, fig. 10.

Riversdale Group, Pennsylvanian, west branch North River, Nova Scotia.

Leaia magnacostata Copeland

Holotype 10397

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 36, pl. 6, fig. 5.

Pictou Group, Pennsylvanian, Greener Point, Barrington Cove, north of Sydney Harbour, Nova Scotia.

Leaia silurica Matthew

Hypotype 12818

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 35, pl. 7, fig. 4.

Canso Group, Upper Carboniferous, 27 chains below road at Datan's bridge, Brown's Brook, Nova Scotia.

Arthropoda

Leaia tricarinata Meek and Worthen

Hypotypes 12787, 12795, 12796, 12815, 12824, 12826, 12856

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 35, pl. 4, figs. 8, 9; pl. 7, figs. 2, 5, 7; pl. 8, fig. 5.

Canso Group, Upper Carboniferous, near Alma, Point Edward, West side Parrsboro Harbour, and on Sutherland River below Ross' bridge near Lismore, Nova Scotia; Riversdale Group, Pennsylvanian, Treen Bluff section and west branch North River, Nova Scotia.

Leaia sp.

Fig. specs. 14408, 14409, a

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 49, pl. 24, figs. 4, 5.

Cheverie Formation, Horton Group, Mississippian, on shore Avon River opposite Horton Bluff, Nova Scotia.

Lioestheria (?) *simoni* (Pruvost)

Hypotype 12801

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 39, pl. 5, fig. 7.

Canso? Group, Upper Carboniferous, Nova Scotia.

Lioestheria striata (Goldfuss and Munster)

Hypotype 12823

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 39, pl. 6, figs. 1, 2.

Canso Group, Upper Carboniferous, near Madden Cove, Strait of Canso, Nova Scotia.

Lynceites cansoensis Copeland

Holotype 10383; paratype 12792

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 41, pl. 9, figs. 8, 9.

West Bay Formation, Canso Group, Upper Carboniferous, east side West Bay, 2 miles west of Parrsboro, Nova Scotia.

Palaeolimnadiopsis pruvosti Raymond

Hypotype 12794

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 40, pl. 4, fig. 7.

Pictou? - Riversdale? Group, Pennsylvanian, Treen Bluff, Malagash, Nova Scotia.

Pseudestheria alta Raymond

Holotype 9451

Raymond, P.E., 1946, Bull. Mus. Comp. Zool. Harvard, vol. 96, No. 3, p. 246, fig. 1.

Cheverie Formation, Horton Group, Mississippian, on shore Avon River opposite Horton Bluff, Nova Scotia.

=*Asmussia alta*, Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 46, pl. 23, fig. 2.

Pseudestheria leaiaformis Raymond

Holotype 12398; paratype 14379

Raymond, P.E., 1946, Bull. Mus. Comp. Zool. Harvard, vol. 96, No. 3, p. 246, fig. 2 [12398].

Tasch, P., 1956, J. Pal., vol. 30, No. 5, p. 1255, text figs. 1-13.

Cheverie Formation, Horton Group, Mississippian, on shore Avon River opposite Horton Bluff, Nova Scotia.

=*Eoleaia leaiaformis*, Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 47, pl. 23, figs. 6, 8.

Pteroleaia canadensis Copeland

Holotype 15189b; paratypes 15186, a, 15188, 15189, a,c, 15190

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 15, pl. 4, figs. 1, 6; pl. 5, fig. 25.

Melville Island Formation, Middle or Upper Devonian, west coast 5 miles southwest of Kelly Point, Melville Island, Arctic.

ARTHROPODA-OSTRACODA

Aechmina equilateralis? Bassler

Hypotype 14535

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 29, pl. 6, fig. 34.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Aechmina sp.

Fig. spec. 15194

McGill, P., 1962, Geol. Surv., Canada, Bull. 91, p. 10, pl. 2, fig. 10.

Rochester Formation, Middle Silurian, basal 5 feet access road Sir Adam Beck Generating Station section, Niagara Falls, Ontario.

Aechminella biltmorensis (Loranger)

Hypotype 17346

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 3, pl. 1, figs. 4-6.

Mildred Member, Beaverhill Lake Formation, Upper Devonian, 1,054-1,064 feet Bear Biltmore No. 1 well, I.S.D. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Aechminella clivusbestiola McGill

Holotype 17345; paratypes 17345a-c

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 3, pl. 1, figs. 1-3.

Christina Member, Beaverhill Lake Formation, Upper Devonian, 1,324-1,334 feet Bear Biltmore No. 1 well, I.S.D. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

"*Amphissites*"(?) *concentricus* (Ulrich and Bassler)

Hypotypes 14530, a-f

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 43, pl. 6, figs. 17-21.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Aparchites canadensis Fritz

Syntypes 9406, 9407

Fritz, M.A., 1940, J. Pal., vol. 14, No. 1, p. 77, pl. 12, figs. 1-3.

Middle Devonian, Clute Well 14-441-25 (480') lot 147, N.T.R., Raleigh tp., Kent co., Ontario.

Aparchites dentis McGill

Holotype 17347; paratypes 17347a-g

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 4, pl. 1, figs. 7-10.

Firebag Member, Beaverhill Lake Formation, Upper Devonian, 1,682 feet Bear Biltmore No. 1 well, I.S.D. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Aparchites mitis Jones

Holotype 4298

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 91, pl. 11, figs. 15a,b.

Upper Devonian, Hay River, 40 miles above mouth, District of Mackenzie.

Arthropoda

Aparchites mundulus Jones

Holotype 17706

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 62, pl. 10, figs. 12a, b.

Middle Ordovician, Lorette Falls, St. Charles River, Quebec.

Aparchites parvulus Jones

Holotype 7167

Jones, T.R., 1897, Geol. Surv., Canada, Palaeoz. Fossils, vol. 3, pt. 3, p. 230, pl. 22, figs. 4a-c.

Ordovician, Little Black Island, Lake Winnipeg, Manitoba.

Aparchites sinuatus Hall

Hypotype 14515

Copeland, M.J., 1960, Pal., vol. 3, pt. 1, p. 100, pl. 23, figs. 21, 22 [figs. 19, 20 = *Bythocypris phillipsiana*].

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Aparchites whiteavesi Jones

Holotype 3838 [missing]

Jones, T.R., 1889, Annals Mag. Natural Hist., ser. 6, vol. 3, p. 384, pl. 17, fig. 10; text figs. 5, 6.

Ordovician, Lower Fort Garry, St. Andrew, Manitoba.

Arcyzona foordi Copeland

Holotype 14528; paratypes 14528a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 42, pl. 6, figs. 7, 8.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Bairdia fragosa Morey

Hypotype 15159

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 8.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Bairdia magnacurta Morey

Hypotype 15168

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 7.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Bairdia sp. cf. *B. subparallela* Morey

Hypotype 15167

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 9.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Bairdia sp.

Fig. spec. 14553

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 47.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Bassleratia typa Kay

Paratype 6246

Kay, G.M., 1934, J. Pal., vol. 8, No. 3, p. 341.

Hull Formation, Middle Ordovician, Healey Falls, Trent River, Ontario.

Bellornatia tricollis Kay

Paratypes 6254

Kay, G.M., 1934, J. Pal., vol. 8, No. 3, p. 342, pl. 44, figs. 25, 26.
Hull Formation, Middle Ordovician, Healey Falls, Trent River, Ontario.

Beyrichia (Beyrichia) arctigena Martinsson

Holotype 15013; paratypes 15014–15017

Martinsson, A., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 16, pl. 4, figs. 1-6.
Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Beyrichia arcuata (Bean)

Hypotype 4197

Jones, T.R., 1889, Annals Mag. Natural Hist., ser. 6, vol. 3, p. 381, pl. 17, figs. 7a-c.
Lower Devonian, Cape Bon Ami, New Brunswick.
= *Kloedenia* sp. aff. *K. sussexensis*, Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 34, pl. 8, fig. 13.

Beyrichia decora Billings

Syntype 2547

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 67.
Middle Silurian [Jupiter Formation], The Jumpers, Anticosti Island, Quebec.

Beyrichia kloedeni var. *acadica* Jones

Syntypes 4186, 4188, a-c

Jones, T.R., 1889, Annals, Mag. Natural Hist., ser. 6, vol. 3, p. 379, pl. 17, figs. 3 [4188?], 4 [4188a], 5 [4188b], 6 [4186], 8, 9 [4188c].
Lower Devonian, Cape Bon Ami, New Brunswick.
= *Kloedenia acadica*, Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 36, pl. 8, figs. 14-16 [lectotype 4188a; paratypes 4186, 4188, b, c].

Beyrichia (Neobeyrichia) kochii Boll

Hypotype 14507

Copeland, M.J., 1960, Pal., vol. 3, pt. 1, p. 98, pl. 23, fig. 23.
Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Beyrichia logani Jones

Syntypes 1080, a, b

Jones, T.R.,
1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 244, pl. 9, figs. 7-9.
1858, Geol. Surv., Canada, Can. Org. Rem., dec. 3, p. 91, pl. 11, figs. 2-4.
Beekmantown Formation, Lower Ordovician, Grenville, Argenteuil co., Quebec and Hawkesbury, Ontario.

Beyrichia logani var. *leperditioides* Jones

Holotype 1098

Jones, T.R.,
1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 244, pl. 9, figs. 10, b.
1858, Geol. Surv., Canada, Can. Org. Rem., dec. 3, p. 91, pl. 11, figs. 5a, b.
Beekmantown Formation, Lower Ordovician, Grenville, Argenteuil co., Quebec.

Beyrichia logani var. *reniformis* Jones

Holotype 1097

Jones, T.R.,
1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 244, pl. 9, fig. 6.
1858, Geol. Surv., Canada, Can. Org. Rem., dec. 3, p. 91, pl. 11, fig. 1.
Beekmantown Formation, Lower Ordovician, Hawkesbury, Ontario.

Arthropoda

Beyrichia (Neobeyrichia) maccoyiana Jones

Hypotypes 14508, 14509

Copeland, M.J., 1960, Pal., vol. 3, pt. 1, p. 99, pl. 23, figs. 12, 13.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Beyrichia (Neobeyrichia) maccoyiana var. *sulcata* Reuter

Hypotypes 14510–14512

Copeland, M.J., 1960, Pal., vol. 3, pt. 1, p. 99, pl. 23, figs. 14–16.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Beyrichia (Nodibeyrichia) pustulosa Hall

Hypotypes 14498–14504

Copeland, M.J., Pal., vol. 3, pt. 1, p. 96, pl. 23, figs. 2-9.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Beyrichia quadrifida Jones

Syntype 17707

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 66, pl. 11, figs. 9a, b.

Middle Ordovician, Lorette Falls, St. Charles River, Quebec.

Beyrichia venusta Billings

Syntypes 2475, 2548

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 68.

Middle Silurian [Jupiter Formation], East Point and The Jumpers, Anticosti Island, Quebec.

Beyrichiopsis lophota Copeland

Holotype 10387; paratype 12837

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 32, pl. 3, figs. 1-8.

Point Edward Formation, Canso Group, Pennsylvanian, near Sydney, Nova Scotia.

Bollia americana var. *zygocornis* Swartz

Hypotypes 14534, a

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 29, pl. 6, figs. 32, 33.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Bollia sagittaformis Swartz

Hypotypes 14533, a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 29, pl. 6, figs. 30, 31.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Bollia subaequata Ulrich

Hypotypes 6247, b

Kay, G.M., 1934, J. Pal., vol. 8, No. 3, p. 337, pl. 44, figs. 9–12 [6247].

Hull Formation, Middle Ordovician, Healy Falls, Ontario.

Boursella trilobata Tumer

Holotype 9397

Tumer, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 14, pl. 1, fig. 4.

Middle Devonian, Lethwaite well 24-441-48 (250'), lot 141, N.T.R., Raleigh tp., Kent co., Ontario.

Bufina lineata Tumer

Holotype 9401

Tumer, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 21, pl. 1, figs. 9, 12.

Middle Devonian, Union D'Clute Sykes well 12-441-23 (215'), lot 15, con. 15, Raleigh tp., Kent co., Ontario.

Bythocypris alcocki Copeland

Holotype 14547; paratypes 14547a-d

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 46, pl. 10, figs. 16-20.
Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.*Bythocypris cylindrica* (Hall)

Hypotype 975

Ulrich, E.O., 1889, Geol. Surv., Canada, Contr. Can. Micro-Pal., vol. 2, p. 48, pl. 9, fig. 6.
Stony Mountain Formation, Upper Ordovician, Stony Mountain, Manitoba.*Bythocypris cylindrica* (Hall)

Hypotype 8583e

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 255, pl. 46, fig. 2.
Queenston Formation, Upper Ordovician, lot 24, con. 8, St. Vincent tp., 4 miles northwest of Meaford, Ontario.*Bythocypris?* cf. *B. perarcuata* Swartz and Swain

Hypotypes 14549, a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 46, pl. 10, figs. 25-27.
Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.*Bythocypris* cf. *B. phaseolina* Ulrich and Bassler

Hypotypes 14548, a-c

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 46, pl. 10, figs. 21-24.
Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.*Bythocypris phillipsiana* (Jones and Holl)

Hypotypes 14516, 14517

Copeland, M.J., 1960, Pal., vol. 3, pt. 1, p. 101, pl. 23, figs. 19-20, [figs. 21, 22 = *Aparchites sinuatus*].
Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.*Bythocypris swartzi* Copeland

Holotype 14552; paratypes 14552a-f

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 47, pl. 10, figs. 37-40.
Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.*Bythocypris* sp. 1

Fig. specs. 14554, a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 45.
Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.*Bythocypris?* sp.

Fig. spec 15169

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, p. 39, fig. 1.
Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.*Camdenidea canadensis* Copeland

Holotype 14550; paratypes 14550a-c

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 45, pl. 10, figs. 28-31.
Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.*Candona bairdioides* (Jones and Kirkby)

Hypotype 12829

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 28, pl. 4, figs. 1-3.
Joggins Formation, Cumberland Group, Pennsylvanian, roof of 40 Brine seam, Joggins, Nova Scotia.

Arthropoda

Candona salteriana (Jones)

Hypotype 12844

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 29, pl. 1, fig. 4.

Joggins Formation, Cumberland Group, Pennsylvanian, shales immediately above 40 Brine seam, Joggins, Nova Scotia.

Carbonita agnes (Jones)

Hypotype 12841

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 25, pl. 1, figs. 19-21.

Riversdale group, Pennsylvanian, ½ mile north of Finlay Point, Mabou Mines, Nova Scotia.

Carbonita altilis (Jones and Kirkby)

Hypotypes 12833, 12839

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 25, pl. 1, figs. 1-3, 15-18.

Upper part Boss Point Formation, Riversdale Group, Pennsylvanian, near Joggins, Nova Scotia.

Carbonita elongata (Jones and Kirkby)

Hypotype 12842

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 25, pl. 1, figs. 22-25.

Riversdale Group, Pennsylvanian, roof shales of 40 Brine seam, Joggins, Nova Scotia.

Carbonita fabulina (Jones and Kirkby)

Hypotype 12835

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 26, pl. 1, figs. 10, 11.

Riversdale Group, Pennsylvanian, shore section Port Hood, Nova Scotia.

Carbonita inflata (Jones and Kirkby)

Hypotypes 12838, 12843

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 26, pl. 1, figs. 12-14; pl. 2, figs. 18, 19.

Pictou? Group, Pennsylvanian, Mabou Mines, Nova Scotia.

Carbonita rankiniana (Jones and Kirkby)

Hypotype 12849

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 27, pl. 2, figs. 22, 23.

Joggins Formation, Cumberland Group, Pennsylvanian, roof shales immediately above Joggins seam, Joggins, Nova Scotia.

Carbonita scalpellus (Jones and Kirkby)

Hypotype 12850

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 27, pl. 4, fig. 6.

Pictou Group, Pennsylvanian, shales immediately above Backpit seam, Sydney, Nova Scotia.

Carbonita secans (Jones and Kirkby)

Hypotype 12834

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 27, pl. 1, figs. 8, 9.

Cumberland Group, Pennsylvanian, Bayview #8 mine on 40 Brine seam, Joggins, Nova Scotia.

Carbonita cf. *subula* (Jones and Kirkby)

Hypotypes 14400-14406

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 43, pl. 21, figs. 2-4, 8, 9.

Horton Bluff Formation, Horton Group, Mississippian, north of Blue Beach fault, Horton Bluffs, Nova Scotia.

Cavellina caduca McGill

Holotype 17350; paratypes 17350a-d

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 9, pl. 1, figs. 20-25.

Mildred Member, Beaverhill Lake Formation, Upper Devonian, 1,074-1,084 feet Bear Biltmore No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Coryellina sp.

Fig. spec. 15166

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 4.

Sohn, I.G., 1962, J. Pal., vol. 36, No. 6, pl. 167, fig. 35.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Ctenobolbina clavigera (Jones)

Hypotypes 13604-13610, 13624

Copeland, M.J., 1958, J. Pal., vol. 32, No. 1, p. 236, text figs. 1-8.

Pamelia beds, Ottawa Formation, Middle Ordovician, Buena Vista road, Rockcliffe; Hogsback Rapids, Rideau River, Ottawa, Ontario; and Broad Street, Aylmer, Quebec.

"Ctenobolbina" punctata Ulrich

Hypotypes 15195, a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 10, pl. 2, figs. 11-13.

Rochester Formation, Middle Silurian, 10-15 feet above base De Cew Falls section, St. Catharines, and 10-13 feet above base access road Sir Adam Beck Generating Station section, Niagara Falls, Ontario.

Cypridina acadica Bell

Holotype 7742

Bell, W.A., 1929, Geol. Surv., Canada, Mem. 155, p. 185, pl. 34, figs. 5, a.

Lower Windsor Group, Mississippian, Maxner Point, Windsor, Nova Scotia.

Cytherellina siliqua (Jones)

Hypotypes 14505, 14506

Copeland, M.J., 1960, Pal., vol. 3, pt. 1, p. 101, pl. 23, figs. 10, 11.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Cytheropsis siliqua Jones

Holotype 1328

Jones, T.R., 1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 249, pl. 10, fig. 6.

Middle Ordovician [Leray-Rockland beds], Paquette Rapids, Ottawa River.

Daleiella ? canadensis Copeland

Holotype 14532; paratypes 14532a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 31, pl. 6, figs. 27-29.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Dihogmochilina latimarginata see *Isochilina grandis* var. *latimarginata**Dizygopleura chaleurensis* Copeland

Holotype 14531; paratypes 14531a-f

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 40, pl. 6, figs. 22-26.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Dizygopleura sculptura Turner

Holotype 9399

Turner, M.C., 1939, Bul. Am. Pal., vol. 25, No. 88, p. 19, pl. 1, fig. 6.

Middle Devonian, East Coste well 6-441-2 (200'), northeast corner lot 19, con. 7, Tilbury East tp., Kent co., Ontario.

Arthropoda

Dizygopleura symmetrica (Hall)

Hypotypes 15196, a-d

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 10, pl. 2, figs. 14-18.

Rochester Formation, Middle Silurian, 40-45 feet above base De Cew Falls section, St. Catharines, and 28-30 feet above base access road Sir Adam Beck Generating Station section, Niagara Falls, Ontario.

Drepanella richardsoni var. *canadensis* Ulrich

Hypotypes 8524 [2 specimens], 8583a, b

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 252, pl. 46, figs. 5a[8583a], b [8583b], c [8524].

Queenston Formation, Upper Ordovician, lot 24, con. 8, St. Vincent tp., 4 miles northwest of Meaford, Ontario.

Egorovia longituda McGill

Holotype 17352; paratypes 17352a-g

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 10, pl. 2, figs. 14-18.

Moberly Member, Beaverhill Lake Formation, Upper Devonian, 1,154-1,164 feet Bear Biltmore No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Entomis brookei Kindle

Holotype 7977; paratypes 7977a, b

Kindle, E.M., 1919, Geol. Surv., Canada, Mus. Bull. 29, p. 8, pl. 2, figs. 7-10.

Simpson shale, Upper Devonian, east bank Mackenzie River 5 miles above Rabbitskin River, District of Mackenzie.

Entomis serratostrata (Sandberger)

Hypotypes 7976, b

Kindle, E.M., 1919, Geol. Surv., Canada, Mus. Bull. 29, p. 7, pl. 2, figs. 4-6.

Simpson shale, Upper Devonian, east bank Mackenzie River 5 miles above Rabbitskin River, District of Mackenzie.

Entomis variostrata Clarke

Hypotypes 7975, a, b

Kindle, E.M., 1919, Geol. Surv., Canada, Mus. Bull. 29, p. 7, pl. 2, figs. 1-3.

Simpson shale, Upper Devonian, east bank Mackenzie River 5 miles above Rabbitskin River, District of Mackenzie.

Eriella beaumontensis (Loranger)

Hypotypes 17353, a

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 11, pl. 3, figs. 1-3.

Christina-Calumet Members, Beaverhill Lake Formation, Upper Devonian, 1,404-1,414 feet Bear Biltmore No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Eucraterellina crateriformis (Swartz)

Hypotypes 14520, a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 27, pl. 5, figs. 6-8.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Eucraterellina oblonga (Ulrich and Bassler)

Hypotypes 14522, a

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 27, pl. 5, figs. 13, 14.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Eukloedenella alcocki Copeland

Holotype 14546; paratypes 14546a-h

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 41, pl. 10, figs. 7-15.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Eukloedenella dalhousiensis Copeland

Holotype 14545; paratypes 14545a-e

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 42, pl. 10, figs. 1-6.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Eukloedenella doverensis Turner

Holotype 9400

Turner, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 20, pl. 1, figs. 5, 8.

Middle Devonian, Union D'Clute Sykes well 12-441-23 (200'), lot 15, con. 15, Raleigh tp., Kent co., Ontario.

Eurychilina (?) *striatmarginata* (Miller)

Hypotype 8525

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 253, pl. 46, fig. 4.

Queenston Formation, Upper Ordovician, lot 24, con. 8, St. Vincent tp., 4 miles northwest of Meaford, Ontario.

Eurychilina tutu Copeland

Holotype 15199; paratypes 15198, a-h, 15199a

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 55, pl. 12, figs. 2-10.

'Trenton', Middle Ordovician, Gretna quarry, 4½ miles south-southwest of Napanee, Ontario.

Graphiadactyllis fernglenensis Benson

Hypotypes 15160, a

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, figs. 12, 13.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Graphiadactyllis granopunctatus (Ulrich and Bassler)

Hypotype 15162

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 16.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Graphiadactyllis cf. *G. lineatus* (Ulrich and Bassler)

Hypotype 15515

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 14.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Graphiadactyllis moridgei Benson

Hypotype 15163

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 15.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Graphiadactyllis sp.

Fig. spec. 15156

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 17.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Gutschickia bretonensis Copeland

Holotype 10388; paratypes 12836a, b

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 29, pl. 3, figs. 9-19.

MacDonald Glen Formation, lower member, Riversdale Group, Pennsylvanian, near Mabou Mines, Nova Scotia.

Arthropoda

Gutschickia ninevehensis (Holland)

Hypotype 12840

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 29, pl. 2, figs. 20, 21.
Riversdale Group, Pennsylvanian, shore section Port Hood, Nova Scotia.

Halliella labiosa Ulrich

Hypotype 6253

Kay, G.M., 1934, J. Pal., vol. 8, No. 3, p. 332.
Hull Formation, Middle Ordovician, Healey Falls, Trent River, Ontario.

Halliella magnapuncta Kay

Paratypes 6244, 6245

Kay, G.M., 1934, J. Pal., vol. 8, No. 3, p. 334.
Hull Formation, Middle Ordovician, Healey Falls, Trent River, Ontario and Decorah Formation, Middle Ordovician, sec. 13, Glenwood tp., Winneshiek co., Iowa, U.S.A.

Haploprimitia obscura McGill

Holotype 17348; paratypes 17348a, b

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 7, pl. 1, figs. 11-13.
Mildred Member, Beaverhill Lake Formation, Upper Devonian, 1,094-1,114 feet Bear Biltmore No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Haploprimitia punctata Turner

Holotype 9395

Turner, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 10, pl. 1, fig. 1.
Middle Devonian, D'Clute well 19-441-30 (230'), lot 16, con. 15, Raleigh tp., Kent co., Ontario.

Healdia sp.

Fig. specs. 15158, a

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, figs. 10, 11.
Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Herrmannina cf. *H. consobrina* (Jones)

Hypotypes 15184, a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 7.
Middle Devonian, northern shore of Deans Dundas Bay, Prince Albert Peninsula, lat. 72°21' N., long. 118°25' W., Victoria Island, Arctic.

Hittboldtina evelinae (Jones)

Hypotype 12832

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 28, pl. 1, figs. 5-7.
Port Hood Formation, Riversdale Group, Pennsylvanian, shore section, Port Hood, Nova Scotia.

Hollinella? *novascotica* (Jones and Kirkby)

Hypotypes 14396-14399

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 42, pl. 21, figs. 1, 5-7.
Horton Bluff Formation, Horton Group, Mississippian, north of Blue Beach fault, Horton Bluffs, Nova Scotia.

Hollinella subcircularis Turner

Holotype 9398

Turner, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 17, pl. 1, fig. 20.
Middle Devonian, Dauphin Imperial well 2-441-70 (130'), lot 2, con. 2, Tilbury East tp., Kent co., Ontario.

Hypotetragona albertensis Loranger (nude name)

Topotypes 17351a-g

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 5, pl. 12, figs. 1-13.

Ireton Formation, Upper Devonian, 2,140-2,144 feet Bear Beaumont No. 1 well, l.s.d. 14, sec. 25, tp. 75, rge. 17, W. 4th mer., Alberta.

Hypotetragona sp.

Fig. spec. 15161

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, figs. 5, 6.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Isochilina amii Jones

Holotype 17708

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 68, pl. 10, figs. 14a, b.

Middle Ordovician, Lorette Falls, St. Charles River, Quebec.

Isochilina bellula Jones

Syntypes 4297, a

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 92, pl. 11, figs. 16a, b.

Upper Devonian, Hay River, 40 miles above mouth, Northwest Territories.

Isochilina grandis var. *latimarginata* Jones

Syntypes 6055, b, d, f-i, 6057, a; plaster casts 6055a,c,e

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 78, pl. 10, figs. 1-4.

Middle Silurian [Cedar Lake Formation], Denbeigh (Long) Point, east side of Lake Winnipegosis, and north end Mossy portage, Cedar Lake, Manitoba.

= *Dihogmochilina latimarginata*, Stearn, C.W., 1956, *ibid.*, Mem. 281, p. 126, pl. 12, fig. 5 [6055a plaster cast of holotype 6055].*Isochilina labellosa* Jones

Syntype 13473

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 69, pl. 10, figs. 16a-c, 17.

"Chazy" [Pamelia beds], Middle Ordovician, Broad Street, Aylmer, Quebec.

Isochilina labellosa Jones

Syntype 13474

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 69, pl. 10, fig. 19.

"Birdseye" limestone [Lowville beds], Middle Ordovician, lot 3, con. 3, R.F., Gloucester tp., Carleton co., Ontario.

Isochilina labrosa Jones

Holotype 3841

Jones, T.R., 1889, Annals Mag. Natural Hist., ser. 6, vol. 3, p. 383, pl. 17, fig. 11.

Lower Devonian, Cape Bon Ami, New Brunswick.

= *Saccarchites labrosus*, Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 37, pl. 9, fig. 25.*Isochilina ottawa* see *Leperditia (Isochilina) ottawa*

Arthropoda

Isochilina whiteavesii Jones

Holotype 17709

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 68, pl. 10, figs. 13a, b.

Middle Ordovician, Lorette Falls, St. Charles River, Quebec.

Jenningsina concentrica Turner

Holotype 9405

Turner, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 28, pl. 1, fig. 16.

Middle Devonian, Union D'Clute Sykes well 12-441-23 (200'), lot 15, con. 15, Raleigh tp., Kent co., Ontario.

Kloedenia acadica see *Beyrichia arcuata*

Kloedenia? newbrunswickensis Copeland

Holotype 14541; paratypes 14541a-g

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 35, pl. 8, figs. 1-8.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Kloedenia punctilosa Ulrich and Bassler

Hypotypes 14538, a

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 33, figs. 9, 10.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Kloedenia retifera Ulrich and Bassler

Hypotypes 14540, a-g

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 33, pl. 7, figs. 14-21

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Kloedenia sp. aff. *K. sussexensis* see *Beyrichia arcuata*

Kloedenia wilckensiana (Jones)

Hypotypes 14513, 14514

Copeland, M.J., 1960, Pal., vol. 3, pt. 1, p. 99, pl. 23, figs. 17, 18.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Kloedenia ? sp. indet.

Fig. specs. 14539, a-e

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 32, pl. 7, figs. 11-13.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Leperditia amygdalina Jones

Syntypes 1078, a

Jones, T.R., 1858, Geol. Surv., Canada, dec. 3, p. 97, pl. 11, figs. 18, 19.

Pamelia beds, Middle Ordovician, near L'Orignal, Ontario.

Leperditia anna Jones

Holotype 506

Jones, T.R.,

1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 247, pl. 9, figs. 18a-c.

1858, Geol. Surv., Canada, dec. 3, p. 96, pl. 11, figs. 13a-c.

Beekmantown Formation, Lower Ordovician, Ste. Anne de Bellevue, Quebec.

Leperditia balthica var. *guelphica* Jones

Syntypes 3013, c

Jones, T.R., 1891, Geol. Surv., Canada, Micro-Pal., pt. 3, p. 80, pl. 13, figs. 12a, b, 13a-c.

Guelph Formation, Middle Silurian, Durham, Ontario.

Leperditia caeca Jones

Syntypes 8746, 8749

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 88, pl. 12, figs. 7, 9.

Middle Silurian, below Cedar Lake, Saskatchewan River, and foot of Grand Rapids, near mouth of Saskatchewan River, Manitoba.

Leperditia caecigena Miller

Hypotypes 8522, a-c

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 250.

Queenston Formation, Upper Ordovician, along north and south road bordering lot 24, con. 8, St. Vincent tp., 4 miles northwest of Meaford, Ontario.

Leperditia canadensis var. *josephiana* Jones

Holotype 1334h

Jones, T.R., 1858, Geol. Surv., Canada, dec. 3, p. 94, pl. 11, fig. 16.

Middle Ordovician, St. Joseph Island, Lake Huron, Ontario.

Leperditia canadensis var. *labrosa* Jones

Holotype 1079

Jones, T.R., 1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 245, pl. 9, figs. 13a-c.

Chazy (?), Middle Ordovician, Hawkesbury, Ontario.

Leperditia canadensis var. *louckiana* Jones

Holotype 1337

Jones, T.R., 1858, Geol. Surv., Canada, dec. 3, p. 93, pl. 11, fig. 11.

Middle Ordovician, Loucks Mill, Castor River, Ontario.

Leperditia canadensis var. *nana* Jones

Syntypes 1099, a

Jones, T.R.,

1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 244, pl. 9, figs. 11, 12.

1858, Geol. Surv., Canada, dec. 3, p. 92, pl. 11, figs. 6, 7.

Beekmantown Formation, Middle Ordovician, Grenville, Argenteuil co., Quebec.

Leperditia canadensis var. *pauquettiana* Jones

Holotype 1336a

Jones, T.R.,

1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 246, pl. 9, figs. 17a-d.

1858, Geol. Surv., Canada, dec. 3, p. 94, pl. 11, figs. 12a-d.

Leray beds, Middle Ordovician, Paquette Rapids, Ottawa River.

Leperditia concinnula Billings

Syntypes 702, a-c

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 299.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 299.

Divisions L, M [Table Head], Middle Ordovician, Port Rich, and Table Head, Newfoundland.

Leperditia (?) *exigua* Jones

Holotype 8747

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 94, pl. 12, fig. 10.

Devonian, small island east side of Lake Winnipegosis about 30 miles south of Denbeigh (Long) Point, Manitoba.

Arthropoda

Leperditia hisingeri Schmidt

Hypotypes 8752, b

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 82, pl. 13, figs. 1a-c, 9a, b.

Stearn, C.W., 1956, *ibid.*, Mem. 281, p. 124, pl. 12, fig. 6.

Middle Silurian [Cedar Lake Formation], Denbeigh (Long) Point, Lake Winnipegosis, Manitoba.

Leperditia hisingeri var. *egena* Jones

Holotype 8749

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 83, pl. 12, fig. 8.

Middle Silurian [Moose Lake Formation], foot of Grand Rapids, Saskatchewan River, Manitoba.

Leperditia hisingeri var. *fabulina* Jones

Syntypes 6052, b

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 82, pl. 10, figs. 5a-c, 7.

Stearn, C.W., 1956, *ibid.*, Mem. 281, p. 124, pl. 12, fig. 13.

Middle Silurian [Fisher Branch Formation?], east side Lake Winnipegosis, Manitoba.

Leperditia hisingeri var. *fabulina* Jones

Syntype 8748, a

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 82, pl. 13, figs. 2, 5.

Middle Silurian, foot of Grand Rapids, Saskatchewan River, Manitoba.

Leperditia hisingeri var. *fabulina* Jones

Syntypes 8753, a

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 82, pl. 12, fig. 15; pl. 13, figs. 3a-c.

Middle Silurian, Denbeigh (Long) Point, Lake Winnipegosis, Manitoba.

Leperditia hisingeri var. *gibbera* Jones

Holotype 8754

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 82, pl. 13, fig. 4.

Middle Silurian, Denbeigh (Long) Point, Lake Winnipegosis, Manitoba.

=*Leperditia longigibbera*, Swartz, F.M., 1949, J. Pal., vol. 23, No. 3, p. 314.

Leperditia manitoulinensis Foerste

Syntypes 8520, a-c

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 250, pl. 46, figs. 1a [8520e], b [8520b], c [8520a], d [8520c].

Meaford Formation, Upper Ordovician, Clay Cliffs, Manitoulin Island, Ontario.

Leperditia (Isochilina) ottawa Jones

Syntypes 1077, a

Jones, T.R.,

1858, Annals Mag. Natural Hist., ser. 3, vol. 1, No. 4, p. 248, pl. 10, figs. 1a-c [1077?].

1858, Geol. Surv., Canada, dec. 3, p. 97, pl. 11, figs. 14a-c.

Beekmantown Formation, Lower Ordovician, canal at Grenville, Argenteuil co., Quebec.

Leperditia phaseola (Hisinger)

Hypotype 8755, a

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 85, pl. 13, figs. 7, 8.

Stearn, C.W., 1956, *ibid.*, Mem. 281, p. 125, pl. 12, fig. 7.

Middle Silurian [East Arm Formation], Roche Rouge, Saskatchewan River, Manitoba.

Leperditia phaseola var. *guelphica* Jones

Holotype 3005

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 86, text fig. 5. Guelph Formation, Middle Silurian, Durham, Ontario.

Leperditia selwynii Jones

Syntypes 10562, a-e

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 89, pl. 12, figs. 1-3, 5.

Middle Silurian, 12 and 15 mile pools, Jupiter River, Anticosti Island, Quebec.

Leperditia subcylindrica Ulrich

Holotype 6832

Ulrich, E.O., 1889, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 2, p. 49, pl. 9, fig. 4.

Stony Mountain Formation, Upper Ordovician, Stony Mountain, Manitoba.

Leperditia trentonensis Wilson

Holotype 6228

Wilson, A.E., 1921, Geol. Surv., Canada, Bull. 33, p. 57, pl. 4, figs. 12, 13.

Rockland beds, Middle Ordovician, MacLaren Landing above Ottawa, Ontario.

Leperditia ventralis Billings

Syntypes 701, a

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 300.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 300.

Division N [Table Head], Middle Ordovician, Bonne Bay, Newfoundland.

Leperditia whiteavesii Jones

Syntypes 8751, a, b

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 87, pl. 12, figs. 11, 12a-c, 14.

Middle Silurian, Chemahawin, Saskatchewan River, Manitoba.

Leperditiae spp.

Fig. specs. 8750

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 89, pl. 12, fig. 6.

Middle Silurian, foot of Grand Rapids, near mouth of Saskatchewan River, Manitoba.

Libumella reticulata Copeland

Holotype 14529; paratypes 14529a-g

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 44, pl. 6, figs. 9-16.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Limnoprimitia? *hortonensis* Bell

Holotype 14391; paratypes 14392-14395

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 41, pl. 19, figs. 1-8.

Horton Bluff Formation, Horton Group, Mississippian, north of Blue Beach fault, Horton Bluffs, Nova Scotia.

Arthropoda

Mesomphalus magnificus Copeland

Holotype 14537; paratypes 14537a-n

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 38, pl. 7, figs. 1-8; pl. 8, figs. 9-12.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Menoeidina arcuata Turner

Holotype 9402

Turner, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 22, pl. 1, figs. 11, 14.

Middle Devonian, Moore well 26 (190'), lot 142, con. T.R., Raleigh tp., Kent co., Ontario.

Molleritia canadensis Copeland

Holotype 15179; paratypes 15176-15178, 15180-15183

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 4, pl. 1, figs. 3-17; text figs. 1, 2.

Middle Devonian, East Porcupine and Hart Rivers, Yukon, and north shore Deans Dundas Bay, lat. 72°21'N, long. 118°25'W., Victoria Island, Arctic.

Molleritia canadensis insignis Copeland

Holotype 15175

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 6, pl. 1, figs. 1, 2.

Middle Devonian, East Porcupine River, lat. 65°47'30"N., long. 139°14'30"W., Yukon.

"*Octonaria*" *curta* Ulrich

Hypotypes 15197, a

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 10, pl. 2, figs. 19, 20.

Rochester Formation, Middle Silurian, 20-25 feet above base De Cew Falls section, St. Catharines, Ontario.

Octonaria foordi Copeland

Holotype 14525; paratypes 1425a-j

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 25, pl. 5, figs. 18-24.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Octonaria cf. *O. typicus* (Bassler)

Hypotype 14524

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 26, pl. 5, fig. 17.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Oepikium planum Copeland

Holotype 15200

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 56, pl. 12, fig. 11.

'Trenton', Middle Ordovician, Gretna quarry, 4½ miles south-southwest of Napanee, Ontario.

Pachydomella? clarkei Copeland

Holotype 14542; paratypes 14542a-d

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 48, pl. 9, figs. 1-14.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Parabolbina granosa (Ulrich)

Hypotype 14543, a-f

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 30, pl. 9, figs. 15-19.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Paraechmina abnormis (Ulrich)

Hypotype 15193, a-c

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 10, pl. 2, figs. 6-9.
 Rochester Formation, Middle Silurian, 15-30 feet above base De Cew Falls section,
 St. Catharines, Ontario.

Paraechmina postica Ulrich and Bassler

Hypotype 15191

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 10, pl. 2, fig. 1.
 Rochester Formation, Middle Silurian, 20-25 feet above base De Cew Falls section,
 St. Catharines, Ontario.

Paraechmina spinosa (Hall)

Hypotypes 15192, a-c

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 10, pl. 2, figs. 2-5.
 Rochester Formation, Middle Silurian, 30-35 feet above base De Cew Falls section,
 St. Catharines, and 28-30 feet above base access road 'Sir Adam Beck Generating
 Station section, Niagara Falls, Ontario.

Paraparchites gibbus Bell

Holotype 13590

Bell, W.A., 1929, Geol. Surv., Canada, Mem. 158, p. 185, pl. 34, figs. 6, a, b.
 Lower Windsor Group, Mississippian, Maxner Point, Windsor, Nova Scotia.

Paraparchites okeni ? (Munster)

Hypotype 12779

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 30, pl. 4, fig. 4.
 Mabou Formation, Canso Group, Pennsylvanian, along Southwest Mabou River, Inverness
 co., Nova Scotia.

Paraparchites scotoburdigalensis ? (Hibbert)

Hypotype 12780

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 30, pl. 4, fig. 5.
 Mabou Formation, Canso Group, Pennsylvanian, along Southwest Mabou River, Inverness
 co., Nova Scotia.

Phlyctiscapha keslingi Copeland

Holotype 14544; paratypes 14544a-d

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 36, pl. 9, figs. 20-24.
 Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Plagionephrodes montisdorsus McGill

Holotype 17359; paratypes 17359a-d

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 22, pl. 4, figs. 15-18.
 Beaverhill Lake Formation, Middle Devonian, 4907-4922 feet Anglo Canadian Beaverhill
 Lake No. 2 well, l.s.d. 11, sec. 11, tp. 50, rge. 17, W. 4th mer., Alberta.

Plagionephrodes pustulosus McGill

Holotype 17360; paratypes 17360a-c

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 24, pl. 4, figs. 19-21.
 Calumet Member, Beaverhill Lake Formation, Upper Devonian, 1,413.5 feet Bear Biltmore
 No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Primitia aequalis Jones and Holl

Hypotype 4187

Jones, T.R., 1889, Annals Mag. Natural Hist., ser. 6, vol. 3, p. 379, pl. 17, fig. 2.
 Lower Devonian, Cape Bon Ami, New Brunswick.

Arthropoda

Primitia lativia Ulrich

Holotype 6833

Ulrich, E.O., 1889, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 2, p. 50, pl. 9, figs. 8, a.

Stony Mountain Formation, Upper Ordovician, Stony Mountain, Manitoba.

Primitia lativia Ulrich

Hypotype 8583c

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 254, pl. 46, fig. 3.

Queenston Formation, Upper Ordovician, lot 24, con. 8, St. Vincent tp., 4 miles northwest of Meaford, Ontario.

Primitia mundula var. Jones

Hypotypes 4162, a-g, 4186

Jones, T.R., 1889, Annals Mag. Natural Hist., ser. 5, vol. 3, p. 375, pl. 16, figs. 1 [4162], 2 [4162a], 4 [4162b], 5 [4162c], 6 [4162d], 7 [4162e], 8, 9, [4162f]; pl. 17, fig. 1. [4186].

Lower Devonian, Campbellton, New Brunswick.

Primitia mundula (Jones)

Hypotype 14497

Copeland, M.J., 1960, Pal., vol. 3, pt. 1, p. 101, pl. 23, fig. 1.

Stonehouse Formation, Upper Silurian, Arisaig, Nova Scotia.

Primitia? (*Beyrichia*) *parallela* Ulrich

Holotype 975

Ulrich, E.O., 1889, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 2, p. 51, pl. 9, figs. 7, a.

Stony Mountain Formation, Upper Ordovician, Stony Mountain, Manitoba.

Primitia scaphoides Jones

Holotype 4185

Jones, T.R., 1889, Annals Mag. Natural Hist., ser. 6, vol. 3, p. 377, pl. 16, fig. 3.

Lower Devonian, Campbellton, New Brunswick.

Primitia scitula Jones

Holotype 4296a

Jones, T.R., 1891, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 3, p. 91, pl. 11, figs. 14a, b.

Upper Devonian, Hay River 40 miles above mouth, District of Mackenzie.

Punctaparchites ovatus Kay

Paratype 6252

Kay, G.M., 1934, J. Pal., vol. 8, No. 3, p. 332.

Hull Formation, Middle Ordovician, Healey Falls, Trent River, Ontario.

Pyxiprimitia cf. *P. germana* (Ulrich)

Hypotype 14527

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 28, pl. 6, fig. 5.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Pyxiprimitia ventriclefta Swartz

Hypotypes 14526, a-d

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 28, pl. 6, figs. 1-4, 6.

Dalhousie shale. Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Quasillites fordei var. *minimus* Turner

Holotype 9404

Turner, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 27, pl. 1, fig. 13
 Middle Devonian, Union D'Clute Storey well 15-441-26 (190'), lot 142, N.T.R., Raleigh
 tp., Kent co., Ontario.

Quasillites reticulata Turner

Holotype 9403

Turner, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 26, pl. 1, fig. 10.
 Middle Devonian, D'Clute well 14 (240'), lot 147, N.T.R., Raleigh tp., Kent co., Ontario.

Raymondatia goniglypta Kay

Paratype 6250

Kay, G.M., 1934, J. Pal., vol. 8, No. 3, p. 342.
 Hull Formation, Middle Ordovician, Healey Falls, Trent River, Ontario.

Saccarchites labrosus see *Isochilina labrosa**Sansabella carbonaria* Cooper

Hypotypes 12831a-d

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 31, pl. 2, figs. 1-8.
 Port Hood Formation, Riversdale Group, Pennsylvanian, above main coal seam, Port Hood,
 Nova Scotia.

Sansabella reversa Copeland

Holotype 10386; paratypes 12830a-d

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 31, pl. 2, figs. 9-17.
 Port Hood Formation, Riversdale Group, Pennsylvanian, above main coal seam, Port Hood,
 Nova Scotia.

Scrobicula sp.

Fig. spec. 15165

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 1.
 Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer.,
 Alberta.

Semihealdioides levinsoni McGill

Holotype 17349; paratypes 17349a-d

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 8, pl. 1, figs. 14-19.
 Calumet Member, Beaverhill Lake Formation, Upper Devonian, 1,494-1,514 feet Bear
 Biltmore No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Senescella albertensis (Loranger)

Hypotypes 17356, a

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 21, pl. 4, figs. 1-4.
 Mildred Member, Beaverhill Lake Formation, Upper Devonian, 1,010-1,020 feet Bear
 Biltmore No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Senescella granulosa McGill

Holotype 17354; paratypes 17354a-e

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 20, pl. 3, figs. 14-16.
 Christina-Calumet Members, Beaverhill Lake Formation, Upper Devonian, 1,413 feet Bear
 Biltmore No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Senescella veritatis McGill

Holotype 17355; paratypes 17355a-e

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 20, pl. 3, figs. 17-22.
 Ireton Formation, Upper Devonian, 1,848-1,858 feet Bear Beaumont No. 1 well, l.s.d. 14,
 sec. 25, tp. 75, rge. 17, W. 4th mer., Alberta.

Arthropoda

Strepsula quadrilirata var. *simplex* Ulrich

Holotype 13692

Ulrich, E.O., 1889, Geol. Surv., Canada, Contr. Can. Micro-Pal., pt. 2, p. 55, pl. 9, fig. 13.

Stony Mountain Formation, Upper Ordovician, Stony Mountain, Manitoba.

Strepsulites dalhousiensis Copeland

Holotype 14523; paratype 14523a

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 25, pl. 5, figs. 15, 16.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Tetrasacculus stewartae Benson and Collinson

Hypotype 15157

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, figs. 2, 3.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Thlipsnephrodes silvancendatus McGill

Holotype 17357; paratype 17357a

McGill, P., 1963, Bull. Can. Petrol. Geol., vol. 11, No. 1, p. 22, pl. 4, figs. 5-10.

Mildred Member, Beaverhill Lake Formation, Upper Devonian, 1,084-1,094 feet Bear Biltmore No. 1 well, l.s.d. 7, sec. 11, tp. 87, rge. 17, W. 4th mer., Alberta.

Thlipsura whiteavesi Copeland

Holotype 14519; paratypes 14519a-c

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 23, pl. 5, figs. 3-5.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Thlipsurella curvistriata (Roth)

Hypotypes 14521, a-d

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 24, pl. 5, figs. 9-12.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Thlipsurella cf. *T. v-scripta* (Jones and Holl)

Hypotypes 14518, a, b

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 24, pl. 5, figs. 1, 2.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Thomasatia falcicosta Kay

Paratype 6249

Kay, G.M., 1934, J. Pal., vol. 8, No. 3, p. 337, pl. 46, fig. 19.

Hull Formation, Middle Ordovician, Healey Falls, Trent River, Ontario.

Tubulibairdia chaleurensis Copeland

Holotype 14551; paratypes 14551a-e

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 47, pl. 10, figs. 32-36.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

Ulrichia fragilis var. *subnodata* Turner

Holotype 9396

Turner, M.C., 1939, Bull. Am. Pal., vol. 25, No. 88, p. 25, pl. 1, fig. 2.

Middle Devonian, Dauphin Imperial well 2-441-70 (130'), lot 2, con. 4, Tilbury East tp., Kent co., Ontario.

Waylandella ? sp.

Fig. spec. 15164

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, fig. 18.

Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Zygobeyrichia dalhousiensis Copeland

Holotype 14536

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 31, pl. 6, fig. 35.

Dalhousie shale, Lower Devonian, Stewart's Cove, Dalhousie, New Brunswick.

ARTHROPODA-CIRRIPEDIA

Balanus crenatus Bruguière

Hypotype 13621

Wilson, A.E., 1957, Can. Field-Naturalist, vol. 70, No. 1, pl. 5, fig. 10.

Pleistocene, Sandpits near Uplands, Ottawa, Ontario.

Loricula canadensis Whiteaves

Holotype 5070

Whiteaves, J.F., 1889, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 2, p. 190, pl. 26, figs. 4, a.

Upper Cretaceous, South Duck River, tp. 34, rge. 23, W. Prin. mer., Manitoba.

ARTHROPODA-MALACOSTRACA

Anthracophausia sp.

Fig. spec. 12783

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 47, pl. 14, fig. 1.

Mabou Formation, Canso Group, Upper Carboniferous, Southwest Mabou River, Inverness co., Nova Scotia.

Anthropalaemon dubius (Milne-Edwards)

Hypotypes 12781, 12789, 12812, 12813, 12821, 12822

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 42, pl. 10, figs. 3-6; pl. 11, figs. 2, 3.

Parrsboro Formation, Riversdale Group, Pennsylvanian, Harrington River, 1 mile from mouth, 10 miles east of Parrsboro; ½ mile west of Diligent River, 5 miles west of Parrsboro; west side Parrsboro harbour, Nova Scotia; Cumberland Group, Pennsylvanian, near St. George's Mine, Joggins, Nova Scotia.

Anthropalaemon hillianus Dawson

Hypotype 15187

Bell, W.A., 1922, Trans. Roy. Soc. Can., ser. 3, vol. 16, sec. 4, p. 162, pl. 1, fig. 10.

Riversdale Group, Pennsylvanian, Ste. Rose coal mine, Ste. Rose, Inverness co., Nova Scotia.

Anthropalaemon sp.

Fig. spec. 12861

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 43, pl. 21, fig. 2.

Pictou Group, Pennsylvanian, Asphalt borehole 884, 1269', Pictou coalfield, Nova Scotia.

Arthropoda

Callianassa whiteavesii Woodward

Syntypes 5818, a-c

Woodward, H., 1896, Quart. J. Geol. Soc. London, vol. 52, p. 223, figs. 1, 2.

Whiteaves, J.F., 1903, Geol. Surv., Canada, Mesoz. Fossils 1, pt. 5, p. 319, figs. 18, 19.

Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 107, pl. 20, figs. 6, 7.

Upper Cretaceous, Comox River, Vancouver Island, British Columbia.

Callianassa whiteavesii Woodward

Hypotypes 5382, a-f

Woodward, H., 1900, Geol. Mag., n. ser., dec. 4, vol. 7, p. 435, pl. 17, figs. 2a, b.

Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 107, pl. 20, figs. 8a, b.

Upper Cretaceous, Sounding Creek, tp. 30, rge. 8, W. 4th mer., Alberta.

Ceratiocaris cornwallisensis Copeland

Holotype 14006; paratypes 14005, 14011

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 49, pl. 8, Nos. 1, 2; pl. 9, No. 5.

Member C, Cape Phillips Formation, Upper Silurian, Cape Phillips and Snowblind Creek, northern Cornwallis Island, Arctic.

Ceratiocaris cornwallisensis Copeland

Hypotypes 14555, 14556

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 52, pl. 11, figs. 1, 2.

Devon Island and Cape Phillips Formations, Upper Silurian, 6½ miles northeast of Point Hogarth, Prince Alfred Bay, Devon Island and 3½ miles southeast of mouth of river flowing into Stuart ('Disappointment') Bay, Cornwallis Island, Arctic.

Ceratiocaris pusilla Matthew

Hypotypes 13298, a

Copeland, M.J., 1957, J. Pal., vol. 31, No. 3, p. 601, pl. 67, figs. 1-3.

Jones Creek Formation, Silurian, 1 mile above mouth Cunningham Brook, about 14 miles northeast of St. John, New Brunswick.

Ceratiocaris sp. cf. *C. stygia* Salter

Hypotypes 14007-14009

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 50, pl. 8, Nos. 3, 4; pl. 9, fig. 4.

Cape Phillips Formation, Upper Silurian, Twilight Creek (Stuart River), Bathurst Island, Arctic.

Ceratiocaris sp.

Fig. spec. 14557

Copeland, M.J., 1962, Geol. Surv., Canada, Bull. 91, p. 53, pl. 11, fig. 3.

Member C, Read Bay Formation, Upper Silurian, Washington Point, Baillie-Hamilton Island, Arctic.

Dithyrocaris glabroides Copeland

Holotype 10389; paratypes 12791, 12798

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 51, pl. 6, figs. 6, 7; pl. 9, fig. 6.

West Bay Formation, Canso Group, near Parrsboro, Nova Scotia.

Echinocaris beecheri Copeland

Holotype 13785

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 6, pl. 1, No. 8; fig. 2.

Banff Formation, Mississippian, Imperial Zama Lake well, depth 1,355 feet, l.s.d. 15, sec. 22, tp. 115, rge. 10, W. 6th mer., Alberta.

Echinocaris castorensis Copeland

Holotype 13782; paratypes 13778-13781

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 4, pl. 1, Nos. 1-5; fig. 1.

Alexo Formation, Upper Devonian, talus at foot of "Beaver Ridge", lat. 52°50'N., long. 117°45'W., Alberta.

Echinocaris consanguina Eller

Hypotype 13783

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 5, pl. 1, Nos. 6, a.

Alexo Formation, Upper Devonian, "Beaver Ridge", lat. 52°50'N., long. 117°45'W., Alberta.

Echinocaris sp. (Telson)

Fig. spec. 13784

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 6, pl. 1, No. 7.

Duvernay Formation, Upper Devonian, Imperial Westlock No. 14-24 well, depth 5,095 feet, l.s.d. 14, sec. 24, tp. 59, rge. 26, W. 4th mer., Alberta.

Enoploclytia minor Woodward

Holotype 5971

Woodward, H., 1900, Geol. Mag., n. ser. dec. 4, vol. 7, p. 434.

Whiteaves, J.F., 1903, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 5, p. 321.

Upper Cretaceous, Hornby Island, British Columbia.

Eryma dawsoni Woodward

Holotype 5969

Woodward, H., 1900, Geol. Mag., n. ser., dec. 4, vol. 7, p. 400, pl. 16, fig. 2.

Whiteaves, J.F., 1903, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 5, p. 321, pl. 41, fig. 2.

Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 128, pl. 35, fig. 1. Upper Cretaceous, northeast side Hornby Island, British Columbia.

Ermyastacus bordenensis Copeland

Holotype 14496

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 56, pl. 11, Nos. 1, 2; fig. 10.

Jurassic, east-central Borden Island, approx. long. 78°28'N., lat. 110°07'W., Arctic.

Homalopsis richardsoni Woodward

Holotype 5995, a

Woodward, H., 1896, Quart. J. Geol. Soc. London, vol. 52, p. 224, fig. 3.

Whiteaves, J.F., 1900, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 4, p. 266, fig. 13.

Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 86, pl. 20, fig. 3. Cretaceous (?), west of Alliford Bay, Skidegate Inlet, Queen Charlotte Islands, British Columbia.

Arthropoda

Hoploparia bennetti Woodward

Holotype 5972

Woodward, H., 1900, Geol. Mag., n. ser., dec. 4, vol. 7, p. 433.

Whiteaves, J.F., 1903, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 5, p. 320.

Upper Cretaceous, Comox River, Vancouver Island, British Columbia.

Hoploparia (?) *canadensis* Whiteaves

Holotype 5057

Whiteaves, J.F.,

1884, Trans. Roy. Soc. Can., vol. 2, sec. 4, p. 237.

1885, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 1, p. 87, pl. 11.

Upper Cretaceous, Highwood River, 10 miles west of first fork, Alberta.

=*Podocratus canadensis*, Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 134, pl. 36.

Hoploparia westoni Woodward

Syntypes 5377, a, 5378

Woodward, H., Geol. Mag., n. ser., dec. 4, vol. 7, p. 433, pl. 17, figs. 1a-c.

Upper Cretaceous, Red Deer River, tp. 23, rge. 15, W. 4th mer., Alberta.

Linuparus canadensis (Whiteaves)

Hypotype 5968

Woodward, J., 1900, Geol. Mag., n. ser., dec. 4, vol. 7, p. 398, pl. 16, fig. 1.

Whiteaves, J.F., 1903, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 5, p. 325, pl. 41, fig. 1.

Upper Cretaceous, 2 miles up Comox River, Vancouver Island, British Columbia.

=*Podocratus canadensis*, Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 134, pl. 35, fig. 2.

Linuparus (*Podocrates*) *vancouverensis* Whiteaves

Syntypes 5964, 5965, a

Whiteaves, J.F.,

1896, Trans. Roy. Soc. Can., ser. 2, vol. 1, sec. 4, p. 132.

1903, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 5, p. 323, pl. 40, fig. 1.

Woodward, H., 1900, Geol. Mag., n. ser., dec. 4, vol. 7, p. 394, pl. 15, fig. 1.

Upper Cretaceous, 2 miles up Puntledge (Comox) River, Vancouver Island, and Hornby Island, British Columbia.

=*Podocratus vancouverensis*, Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 135, pl. 37, figs. 1, 2.

Linuparus (*Podocrates*) *vancouverensis* Whiteaves

Hypotype 5966, 5967

Woodward, H., 1900, Geol. Mag., n. ser., dec. 4, vol. 7, p. 394, pl. 15, figs. 2, 3.

Whiteaves, J.F., 1903, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 5, p. 323, pl. 40, figs. 2, 3.

Upper Cretaceous, Comox River, Vancouver Island, and Hornby Island, British Columbia.

=*Podocratus vancouverensis*, Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 135, pl. 37, fig. 3.

Mesidotea sabinei Nothorst

Hypotypes 9368, a, b

Kindle, E.M., 1928, Can. Field-Naturalist, vol. 42, No. 9, p. 211, fig.

Pleistocene, bank Ottawa River below Rifle Range, Ottawa, Ontario.

Palaeastacus (?) ornatus Whiteaves

Holotype 12397

Whiteaves, J.F.

1887, Geol. Natural Hist. Surv., Canada, Ann. Rept., n. ser., vol. 2, p. 161E.

1889, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 2, p. 183, pl. 25, fig. 3.

Upper Cretaceous, Sounding Creek, tp. 30, rge. 8, W. 4th mer., Alberta.

Palaeocaris novascoticus Copeland

Holotype 13316; paratypes 13317-13324

Copeland, M.J., 1957, J. Pal., vol. 31, No. 3, p. 596, pl. 67, fig. 4; pl. 68, figs. 1-9.

Upper Horton Group, Mississippian, Borehole 530, 1 mile south of Hillsboro, Inverness co., Nova Scotia.

Palaeocaris cf. typus Meek and Worthen

Hypotype 12777

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 47, pl. 15, fig. 1.

Pictou Group, Pennsylvanian, Borehole 60, Stellarton, Nova Scotia.

Palaeocaris sp.

Fig. spec. 13315

Copeland, M.J., 1957, J. Pal., vol. 31, No. 3, p. 595, pl. 67, fig. 5.

Pictou Group, Pennsylvanian, near Clifton, Gloucester co., New Brunswick.

Palaeocorystes harveyi Woodward

Holotype 5817; paratype 5817a

Woodward, H., 1896, Quart. J. Geol. Soc. London, vol. 52, p. 226, fig. 4.

Whiteaves, J.F., 1903, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 5, p. 317, fig. 17.

Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 101, pl. 20, fig. 4.

Upper Cretaceous, Comox River, Vancouver Island, British Columbia.

Plagiolophus vancouverensis Woodward

Syntypes 5815, 5816, a, b

Woodward, H., 1896, Quart. J. Geol. Soc. London, vol. 52, p. 227, figs. 5, 6.

Whiteaves, J.F., 1903, Geol. Surv., Canada, Mesoz. Fossils, vol. 1, pt. 5, p. 316, figs. 15, 16.

Rathbun, M.J., 1926, U.S. Nat. Mus., Smithsonian Inst., Bull. 138, p. 37, pl. 20, figs. 1, 2.

Upper Cretaceous, Comox River, Vancouver Island, and northwest side Hornby Island, British Columbia.

Ptychocaris novaki Copeland

Syntypes 12459, a

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 52, pl. 10, Nos. 4-6; fig. 9, Nos. 3, 4.

Middle Devonian, south side and about 1 mile inland from eastern end of Eids Fiord, southwestern Ellesmere Island.

Pygocephalus cooperi Huxley

Hypotypes 12811, 12858

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 43, pl. 10, fig. 1; pl. 11, fig. 1.

Parrsboro Formation, Riversdale Group, Pennsylvanian, near Parrsboro, Nova Scotia.

Pygocephalus cf. cooperi Huxley

Hypotype 12810

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 44, pl. 10, fig. 2.

Parrsboro Formation, Riversdale Group, Pennsylvanian, near Parrsboro, Nova Scotia.

Arthropoda

Spathiocaris cf. *S. bipartita* (Woodward)

Hypotypes 13787, 13790

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 8, pl. 1, Nos. 10, 13.

Duvernay Formation, Upper Devonian, Imperial Paddle River No. 1, depth 7,730–7,743 feet, l.s.d. 5, sec. 17, tp. 56, rge. 8, W. 5th mer., Alberta.

Spathiocaris cf. *S. lata* (Woodward)

Hypotypes 13786, 13788, 13789

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 8, pl. 1, Nos. 9, 11, 12.

Black shales and Duvernay Formation, Upper Devonian, Central Leduc Toad River No. 1 well, depth 5,189 feet, lat. 59°21'N, long 124°59'W, British Columbia and Imperial Paddle River No. 1 well, depth 7,730–7,743 feet, l.s.d. 5, sec. 17, tp. 56, rge. 8, W. 5th mer., Alberta.

Spathiocaris? sp. (telson)

Fig. spec. 13791

Copeland, M.J. and Bolton, T.E., 1960, Geol. Surv., Canada, Bull. 60, p. 9, pl. 1, No. 14.

Upper Devonian black shales, Central Leduc Toad River No. 1 well, depth 5,165–5,170 feet, lat. 59°21'N, long. 124°59'W, British Columbia.

Teallicaris barathrota Copeland

Holotype 10384; paratypes 12782, 12784, 12785a-d

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 45, pl. 13, figs. 2–6; pl. 14, figs. 2, 3.

Canso Group, near Creignish, Inverness co., and Mabou Formation, Canso Group, Upper Carboniferous, Southwest Mabou River, near Mabou, Nova Scotia.

Teallicaris belli Copeland

Holotype 10381

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 46, pl. 12, fig. 4.

Canso Group, Upper Carboniferous, West Bay near Parrsboro, Nova Scotia.

Teallicaris caudafimbriata Copeland

Holotype 10382

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 44, pl. 12, fig. 3.

West Bay Formation, Canso Group, Upper Carboniferous, near Parrsboro, Nova Scotia.

Crustacea incertae sedis

Fig. specs. 12775, 12820

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 60, pl. 13, fig. 1; pl. 20.

Pictou Group, Pennsylvanian, near Stellarton and Canso Group, second bridge up French River, Merigomish, Nova Scotia.

ARTHROPODA-MYRIAPODA

Amynilyspes springhillensis Copeland

Holotype 10385

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 52, pl. 15, fig. 2.

Joggins Formation, Cumberland Group, Pennsylvanian, near Springhill, Cumberland co.,
Nova Scotia.

Myriapoda incertae sedis

Fig. spec. 12776

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 59, pl. 15, fig. 3.

Lancaster Formation, Cumberland Group, Pennsylvanian, near St. John, New Brunswick.

Xylobius sigillariae Dawson

Hypotype 12788

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 53, pl. 11, fig. 6.

Joggins Formation, Cumberland Group, Pennsylvanian, near Joggins, Nova Scotia.

ARTHROPODA-INSECTA

Carboniferous

Archimylacris acadica (?) Scudder

Hypotype 12845

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 56, pl. 9, fig. 4.

Pictou Group, Pennsylvanian, Borehole 60, Thorburn area, Pictou co., Nova Scotia.

Archimylacris morienensis Copeland

Holotype 10394

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 57, pl. 19, fig. 5.

Pictou Group, Pennsylvanian, Morien Bay at South Port Morien, Nova Scotia.

Archimylacris sp. 1

Fig. spec. 12774

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 57, pl. 12, fig. 1.

Pictou Group, Pennsylvanian, Coalburn borehole (319'), Pictou co., Nova Scotia.

Archimylacris sp. 2

Fig. specs. 12773a, b

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 57, pl. 19, figs. 3, 4.

Pictou Group, Pennsylvanian, Borehole 60, Thorburn area, Pictou co., Nova Scotia.

Archimylacris sp. (pronotum)

Fig. spec. 12772

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 58, pl. 9, fig. 1.

Pictou Group, Pennsylvanian, Borehole 60 (384' within Thorburn coal series), Thorburn
area, Pictou co., Nova Scotia.

Arthropoda

(Blattoidea) carri see *Schistaspis bretonensis*

(Blattoidea) schuchertiana see *Schistaspis bretonensis*

Brodioptera amiae Copeland

Holotype 10392

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 54, pl. 18, figs. 4-6.
Riversdale Group, Pennsylvanian, Howard's Mills, River Wallace, 30 miles north of Stellarton, Nova Scotia.

Brodioptera cumberlandensis Copeland

Holotype 10390

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 54, pl. 18, figs. 1-3.
Parrsboro Formation, Riversdale Group, West Bay near Parrsboro, Nova Scotia.

Geroneura wilsoni Matthew

Holotype 8129

Matthew, G.F., 1889, Trans. Roy. Soc. Can., vol. 6, sec. 4, p. 57, pl. 4, fig. 10.
Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 55, pl. 9, fig. 5.
"Fern Ledges" or Lancaster Formation, Cumberland Group, Pennsylvanian, near St. John, New Brunswick.

Hemimylacris sp. (pronotum)

Fig. spec. 12790

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 58, pl. 11, fig. 5.
Pictou Group, Pennsylvanian, McLellan Brook, Pictou co., Nova Scotia.

Homothetus erutus Matthew

Holotype 8135

Matthew, G.F., 1894, Trans. Roy. Soc. Can., vol. 12, sec. 4, p. 95, pl. 1, fig. 11.
"Fern Ledges" or Lancaster Formation, Cumberland Group, Pennsylvanian, near St. John, New Brunswick.

Meganeura sp.

Fig. specs. 12863, 12864

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 55, pl. 21, figs. 4, 5.
Pictou Group, Pennsylvanian, Sydney coalfields, Nova Scotia.

Phylloblatta (?) spp.

Fig. specs. 12846, 12847a-e, 12848, 12849a

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 59, pl. 12, fig. 2; pl. 18, figs. 7-11; pl. 19, figs. 1, 6, 7.
Pictou Group, Pennsylvanian, Thorburn area, 8 miles southeast of Stellarton and Sydney coalfield, Nova Scotia.

Schistaspis bretonensis Bell

Holotype 9650; paratype 9650a

Bell, W.A., 1922, Trans. Roy. Soc. Can., ser. 3, vol. 16, sec. 4, p. 166, pl. 1, figs. 12-14.
Morien Group, Pennsylvanian, New Campbellton Mines, near Sydney, Nova Scotia.
=*(Blattoidea) carri* and *(Blattoidea) schuchertiana*, Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, pp. 58, 59, pl. 9, figs. 2, 3.

Palaeodictyoptera incertae sedis

Fig. spec. 12859

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 56, pl. 19, fig. 2.
Pictou Group, Pennsylvanian, Sydney coalfields, Nova Scotia.

Insecta incertae sedis

Fig. spec. 12862

Copeland, M.J., 1957, Geol. Surv., Canada, Mem. 286, p. 60, pl. 21, fig. 3.

Pictou Group, Pennsylvanian, Borehole, Stellarton, Nova Scotia.

Mesozoic

Otiorhynchites williamsi Cockerell

Holotype 17687

Cockerell, T.D.A., in Williams, M.Y., 1943, Trans. Roy. Soc. Can., ser. 3, vol. 37, sec. 4, p. 115, pl. 1, fig. 6.

Peng Chau Formation, Jurassic, west side Peng Chau Island, Mirs Bay, Hong Kong.

Tertiary

Anthomyia burgessi Scudder

Holotype 6166

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 274.

1890, Fossil Insects N.A., vol. 2, p. 549, pl. 3, fig. 34.

Oligocene-Miocene, Quesnel, British Columbia.

Anthomyia inanimata Scudder

Holotype 6165

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 273.

1890, Fossil Insects N.A., vol. 2, p. 548, pl. 3, fig. 19.

Oligocene-Miocene, Quesnel, British Columbia.

Aphaenogaster longaeva Scudder

Holotype 6178

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 267.

1890, Fossil Insects N.A., vol. 2, p. 615, pl. 3, fig. 28.

Oligocene-Miocene, Quesnel, British Columbia.

Aphrophora angusta Handlirsch

Holotype 7277

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 128, fig. 36.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

Aphrophora sp.

Fig. spec. 6146

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 20, pl. 1, fig. 4.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Arthropoda

Aranea columbiae Scudder

Syntypes 6131, a, 6150

Scudder, S.H.,

1878, Geol. Surv., Canada, Rept. Prog. 1876-77, p. 463.

1890, Fossil Insects N.A., vol. 2, p. 71, pl. 2, figs. 1, 2.

Oligocene-Miocene, Quesnel, British Columbia.

Archiinocellia oligoneura Handlirsch

Holotype 7250

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 100, figs. 3-5.

Oligocene-Miocene, opposite Horsefly Mine, Quesnel District, British Columbia.

Boletina sepulta Scudder

Holotype 6177b

Scudder, S.H., 1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 271.

Oligocene-Miocene, Quesnel, British Columbia.

Bothromicromus lachlani Scudder

Holotype 6130

Scudder, S.H.,

1878, Geol. Surv., Canada, Rept. Prog. 1876-77, p. 462.

1890, Fossil Insects N.A., vol. 2, p. 164, pl. 2, fig. 8.

Oligocene-Miocene, Quesnel, British Columbia.

Brachypeza abita Scudder

Holotype 6169

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 271.

1890, Fossil Insects N.A., vol. 2, p. 591, pl. 3, fig. 7.

Oligocene-Miocene, Quesnel, British Columbia.

Brachypeza procera Scudder

Holotype 6170

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 272.

1890, Fossil Insects N.A., vol. 2, p. 591, pl. 3, fig. 14.

Oligocene-Miocene, Quesnel, British Columbia.

Bracon sp.

Fig. spec. 6174

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 177B.

1890, Fossil Insects N.A., vol. 2, p. 607, pl. 3, fig. 33.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Buprestis saxigena Scudder

Syntypes 6154, a-d

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 181B.

1890, Fossil Insects N.A., vol. 2, p. 494, pl. 2, figs. 24, 25.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 36.

Oligocene-Miocene, Nicola River below main coal seam, British Columbia.

Buprestis sepulta Scudder

Holotype 6155

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 181B.

1890, Fossil Insects N.A., vol. 2, p. 495, pl. 2, fig. 26.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 37.

Oligocene-Miocene, Nicola River below main coal seam, British Columbia.

Buprestis tertiaria scudder

Syntypes 6153, a, b

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 180B.

1890, Fossil Insects N.A., vol. 2, p. 493, pl. 2, fig. 23.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 35.

Oligocene-Miocene, Nicola River below main coal seam, British Columbia.

Calypptites antediluvianum Scudder

Holotype 6173

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 270.

1890, Fossil Insects N.A., vol. 2, p. 606, pl. 3, fig. 32.

Oligocene-Miocene, Quesnel, British Columbia.

Cercopites torpescens Scudder

Holotype 6138

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 14, pl. 1, fig. 1.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Cercopsis grandescens Scudder

Holotype 6140

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 16, pl. 1, fig. 2.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Cercopsis selwyni Scudder

Holotype 6139

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 184B.

1890, Fossil Insects N.A., vol. 2, p. 318, pl. 2, fig. 14.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 15.

Oligocene-Miocene, Nine Mile Creek, Similkameen River, British Columbia.

Cercyon ? terrigena Scudder

Holotype 6194

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 179B.

1890, Fossil Insects N.A., vol. 2, p. 510, pl. 2, fig. 21.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 45.

Oligocene-Miocene, Nicola River below main coal seam, British Columbia.

Coelidea columbiana Scudder

Holotype 6137

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 185B.

1890, Fossil Insects N.A., vol. 2, p. 313, pl. 2, fig. 13.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 13.

Oligocene-Miocene, 3 miles up north fork Similkameen River, British Columbia.

Arthropoda

Cryptohypnus ? terrestris Scudder

Holotype 6156

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 181B.

1890, Fossil Insects N.A., vol. 2, p. 497, pl. 2, fig. 30.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 38.

Oligocene-Miocene, Nicola River below main coal seam, British Columbia.

Dawsonites veter Scudder

Holotype 6143

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 18, pl. 1, fig. 10.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Elateridae ? sp.

Fig. spec. 6157

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 182B.

1890, Fossil Insects N.A., vol. 2, p. 498, pl. 2, fig. 28.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 40.

Oligocene-Miocene, Nicola River below main coal seam, British Columbia.

Enchophora sp.

Fig. spec. 6134

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 10, pl. 1, fig. 5.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Etoptychoptera tertiaria Handlirsch

Holotype 7273

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 122, fig. 30.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

Euschistus antiquus Scudder

Holotype 6150

Scudder, S.H., 1878, Geol. Surv., Canada, Rept. Prog. 1876-77, p. 459.

Oligocene-Miocene, Quesnel, British Columbia.

=*Teleoschistus antiquus*, Scudder, S.H., 1890, Fossil Insects N.A., vol. 2, p. 454, pl. 2, figs. 17-19; 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 2, p. 25.

Formica arcana Scudder

Holotype 6180

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 266.

1890, Fossil Insects N.A., vol. 2, p. 618, pl. 3, fig. 24.

Oligocene-Miocene, Quesnel, British Columbia.

Galerucella picea Scudder

Holotype 6152

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 182B.

1890, Fossil Insects N.A., vol. 2, p. 485, pl. 2, fig. 31.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 32.

Oligocene-Miocene, Nine Mile Creek, Similkameen River, British Columbia.

Geranchon petrorum see *Lachnus petrorum*

Gerris defuncta Handlirsch

Holotype 7276, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 126, figs. 34, 35.

Oligocene-Miocene, Quilchena, Nicola Lake, British Columbia.

Heteromyza senilis Scudder

Holotype 6164

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 275.

1890, Fossil Insects N.A., vol. 2, p. 547, pl. 3, figs. 1, 2.

Oligocene-Miocene, Quesnel, British Columbia.

Hygrotrechus stali Scudder

Syntypes 6149, a, b

Scudder, S.H., 1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 183B.

Oligocene-Miocene, 3 miles up north fork Similkameen River, British Columbia.

=*Telmatrechus stali*, Scudder, S.H., 1890, Fossil Insects N.A., vol. 2, p. 351, pl. 2, figs. 11, 12; 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 23.

Hypoclinia obliterated Scudder

Holotype 6179

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 267.

1890, Fossil Insects N.A., vol. 2, p. 615, pl. 3, fig. 25.

Oligocene-Miocene, Quesnel, British Columbia.

Lachnus petrorum Scudder

Holotype 6132

Scudder, S.H., 1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 279.

Oligocene-Miocene, Quesnel, British Columbia.

=*Geranchon petrorum*, Scudder, S.H., 1890, Fossil Insects N.A., vol. 2, p. 249, pl. 2, fig. 6; 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 7.

Lachnus quesneli Scudder

Holotype 6133

Scudder, S.H., 1878, Geol. Surv., Canada, Rept. Prog. 1876-77, p. 461.

Oligocene-Miocene, Quesnel, British Columbia.

=*Sbenaphis quesneli*, Scudder, S.H., 1890, Fossil Insects N.A., vol. 2, p. 250, pl. 2, figs. 4, 5; 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 8.

Lithortalis picta Scudder

Holotype 6162

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 277.

1890, Fossil Insects N.A., vol. 2, p. 541, pl. 3, figs. 10, 16.

Oligocene-Miocene, Quesnel, British Columbia.

Lonchaea senescens Scudder

Holotype 6160

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 277-

1890, Fossil Insects N.A., vol. 2, p. 539, pl. 3, fig. 18.

Oligocene-Miocene, Quesnel, British Columbia.

Arthropoda

Microphorus defunctus Handlirsch

Holotype 7275, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 124, figs. 32, 33.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

Nebria paleomelas Scudder

Holotype 6159

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 179B.

1890, Fossil Insects N.A., vol. 2, p. 532, pl. 2, fig. 20.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 54.

Oligocene-Miocene, Nicola River below main coal seam, British Columbia.

Palaeoptysma venosa Scudder

Holotype 6148

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 21, pl. 1, fig. 8.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Palaphrodes sp.

Fig. spec. 6145 [missing]

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Pal., vol. 2, pt. 1, p. 19.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Palecphora sp.

Fig. spec. 6141

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 6, pl. 1, fig. 7.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Palloptera morticina Scudder

Holotype 6161

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 278.

1890, Fossil Insects N.A., vol. 2, p. 540, pl. 3, fig. 15.

Oligocene-Miocene, Quesnel, British Columbia.

Penthetria angustipennis Handlirsch

Holotype 7251, a

Handlirsch, A., Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 104, fig. 6.

Oligocene-Miocene, Horsefly Mine, Quesnel district, British Columbia.

=*Plecia angustipennis*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 9, fig. 3, No. 11.

Penthetria avunculus Handlirsch

Syntypes 7264, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 114, figs. 20, 21.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

=*Plecia curtula*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 10, pl. 1, fig. 11; fig. 4, No. 7, [7264].

Penthetria avus Handlirsch

Holotype 7265

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 115, fig. 22.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

=*Plecia avus*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 14, pl. 3, fig. 6; fig. 5, No. 13.

Penthetria brevipes Handlirsch

Holotype 7253

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 106, fig. 8.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

= *Plecia pulla*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 10, pl. 1, fig. 7; fig. 3, No. 14.*Penthetria canadensis* Handlirsch

Holotype 7269

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 118, fig. 26.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

= *Plecia canadensis*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 13, pl. 2, fig. 10; fig. 5, No. 5.*Penthetria curtula* Handlirsch

Holotype 7270

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 119, fig. 27.

Oligocene-Miocene, Horsefly Mine, Quesnel district, British Columbia.

= *Plecia curtula*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 10, pl. 1, fig. 9; fig. 4, No. 1.*Penthetria dilatata* Handlirsch

Holotype 7271, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 120, fig. 28.

Oligocene-Miocene, Horsefly Mine, Quesnel district, British Columbia.

= *Plecia dilatata*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 15, pl. 3, fig. 9; fig. 8, No. 5.*Penthetria elatior* Handlirsch

Holotype 7257, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 108, fig. 12.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

= *Plecia elatior*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 17, pl. 4, fig. 5; fig. 8, Nos. 10, 11.*Penthetria falcata* Handlirsch

Holotype 7259, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 110, fig. 14.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

= *Plecia transitoria*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 14, pl. 3, fig. 1; fig. 6, No. 5.*Penthetria fragmentum* Handlirsch

Holotype 7260

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 111, fig. 15.

Oligocene-Miocene, Horsefly Mine, Quesnel district, British Columbia.

= *Plecia transitoria*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 14, pl. 4, fig. 3; fig. 6, No. 6.*Penthetria lambei* Handlirsch

Holotype 7266

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 116, fig. 23.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

= *Plecia pictipennis*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 15, pl. 3, fig. 8; fig. 7, No. 11.

Arthropoda

Penthetria nana Handlirsch

Syntype 7261, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 111, figs. 16, 17.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

=*Plecia nana*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 10, pl. 1, fig. 8; fig. 3, Nos. 15a, b.

Penthetria ovalis Handlirsch

Holotype 7267

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 117, fig. 24.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

=*Plecia pictipennis*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 15, pl. 3, fig. 5; fig. 7, No. 10.

Penthetria pictipennis Handlirsch

Syntypes 7254–7256

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 106, figs. 9–11.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff and right bank 1½ miles above Princeton, and Quilchena, Nicola Lake, British Columbia.

=*Plecia pictipennis*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 15, pl. 3, fig. 2; fig. 7, Nos. 1a, b, 2 [lectotype 7256; paratype 7254].

Penthetria platyptera Handlirsch

Holotype 7272, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 121, fig. 29.

Oligocene-Miocene, Horsefly Mine, Quesnel district, British Columbia.

=*Plecia platyptera*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 16, pl. 4, fig. 1; fig. 8, No. 7.

Penthetria pulchra Handlirsch

Holotype 7263, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 113, fig. 19.

Oligocene-Miocene, Tulameen River, right bank 1 mile above Princeton, British Columbia.

=*Plecia pulchra*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 16, pl. 4, fig. 2; fig. 8, No. 8.

Penthetria pulla Handlirsch

Holotype 7252, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 105, fig. 7.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

=*Plecia pulla*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 10, pl. 1, fig. 6; fig. 3, No. 13.

Penthetria reducta Handlirsch

Holotype 7258

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 109, fig. 13.

Oligocene-Miocene, Horsefly Mine, Quesnel district, British Columbia.

=*Plecia reducta*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 12, pl. 2, fig. 2; fig. 4, No. 8.

Penthetria separanda Handlirsch

Holotype 7262, a

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 112, fig. 18.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

= *Plectia pictipennis*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 15, pl. 4, fig. 4; fig. 7, No. 3.*Penthetria similkameena* Scudder

Syntypes 6172, a, b

Scudder, S.H., 1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 177B.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

= *Plectia similkameena*, Scudder, S.H., 1890, Fossil Insects N.A., vol. 2, p. 583, pl. 3, figs. 20-22.

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 12, pl. 2, fig. 5; fig. 5, No. 1 [lectotype 6172-attached wing].

Penthetria transitoria Handlirsch

Holotype 7268

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 117, fig. 25.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

= *Plectia transitoria*, Rice, H.M.A., 1959, *ibid.*, Bull. 55, p. 14, pl. 3, fig. 3; fig. 6, Nos. 4a, b.*Pimpla decessa* Scudder

Holotype 6177a

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 269.

1890, Fossil Insects N.A., vol. 2, p. 612, pl. 3, fig. 27.

Oligocene-Miocene, Quesnel, British Columbia.

Pimpla saxea Scudder

Holotype 6175

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 268.

1890, Fossil Insects N.A., vol. 2, p. 610, pl. 3, fig. 23.

Oligocene-Miocene, Quesnel, British Columbia.

Pimpla senecta Scudder

Holotype 6176

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 268.

1890, Fossil Insects N.A., vol. 2, p. 611, pl. 3, figs. 29-31.

Oligocene-Miocene, Quesnel, British Columbia.

Planophlebia gigantea Scudder

Holotype 6135

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 186B.

1890, Fossil Insects N.A., vol. 2, p. 296, pl. 2, fig. 16.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 11.

Oligocene-Miocene, north fork Similkameen River 3 miles upriver, British Columbia.

Arthropoda

Plecia angustipennis (Handlirsch)

Hypotype 14426

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 9, pl. 1, fig. 5; fig. 3, No. 12.
Oligocene, Diamond Vale Coal Company, Quilchena district, British Columbia.

Plecia avus (Handlirsch)

Hypotypes 14458-14464

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 14, pl. 3, fig. 7; fig. 5, Nos. 14-17; fig. 6, Nos. 1-3.

Oligocene, shale cliffs on east side of Driftwood Creek from 300 to 350 yards upstream, Smithers district; Tranquille Creek, Kamloops district; on CPR west of Princeton on Station park and on south bank of Tulameen River 400 yards west of old entry portal, Princeton district; and 1.45 miles from schoolhouse east side Driftwood Creek, Smithers district, British Columbia.

Plecia cairnesi Rice

Holotype 14432; paratypes 14433, 14434

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 11, pl. 2, figs. 3, 7; fig. 3, Nos. 17-19.

Oligocene, 1.45 miles from schoolhouse east side Driftwood Creek, Smithers district and northwest of Falkland, Okanagan Lake district, British Columbia.

Plecia canadensis (Handlirsch)

Hypotypes 14452-14457, 6172 (detached wing)

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 13, pl. 2, fig. 8; fig. 5, Nos. 6-12.

Oligocene, from 40 feet above Pleasant Valley No. 2 Mine Portal, Tulameen River, Princeton district; Diamond Vale Coal Company, Quilchena district; Tranquille Creek, Kamloops district; shale cliffs on east side of Driftwood Creek, Smithers district; and 3 miles up north fork of Simikameen River, Princeton district, British Columbia.

Plecia curtula (Handlirsch)

Hypotypes 14427-14431

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 10, pl. 1, fig. 10; fig. 4, Nos. 2-6.

Oligocene, from section along Tulameen River about a quarter mile north, and on east side of bank downstream from CPR bridge; 40 feet above Pleasant Valley No. 2 Mine Portal, Tulameen River; opposite Vermilion Cliff, Tulameen River, Princeton district; shale cliffs on east side of Driftwood Creek from 300 to 350 yards upstream, Smithers district; and above Tulameen River on southeast bank north of CPR bridge, Princeton district, British Columbia.

Plecia dilatata (Handlirsch)

Hypotype 14482

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 15, fig. 8, No. 6.

Princeton Group, Oligocene, 0.7 mile north of bridge over Whipsaw Creek, Princeton district, British Columbia.

Plecia intermedia? (Scudder)

Hypotype 14425

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 9, fig. 3, No. 10.

Oligocene, shale cliffs on east side Driftwood Creek from 300 to 350 yards upstream, Smithers district, British Columbia.

Plecia kelownaensis Rice

Holotype 14423; paratype 14424

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 8, pl. 1, fig. 4; fig. 3, Nos. 8, 9.
Oligocene, Mission Creek, Kelowna district and east bank from 300 to 350 yards upstream
Driftwood Creek, Smithers district, British Columbia.

Plecia minutula Rice

Holotype 14422

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 8, pl. 1, figs. 3a, b; fig. 3, No. 7.
Princeton Group, Oligocene, from 40 feet above Pleasant Valley No. 2 Mine Portal, Tula-
meen River, Princeton district, British Columbia.

Plecia pictipennis (Handlirsch)

Hypotypes 14472-14481

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 15, pl. 4, fig. 6; fig. 7, Nos.
4-9; fig. 8, Nos. 1-4a, b.
Oligocene, east bank from 300 to 350 yards upstream and east side 1.45 miles from school-
house, Driftwood Creek, Smithers district; from 40 feet above Pleasant Valley No. 2
Mine Portal, Tulameen River, Azolla locality on China (Asp) Creek, section about 25
feet above river level on south bank of Tulameen River 400 yards west of old entry
portal, and Tulameen River opposite Vermilion Cliff, Princeton district, British
Columbia.

Plecia pulchra (Handlirsch)

Hypotype 14483

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 16, fig. 8, No. 9.
Princeton Group, Oligocene, North Fork, Similkameen River, British Columbia.

Plecia reducta (Handlirsch)

Hypotypes 14439-14448

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 12, pl. 2, fig. 6; fig. 4, Nos.
9-18.
Oligocene, from 40 feet above Pleasant Valley No. 2 Mine Portal, Tulameen River, Prince-
ton district; shale cliffs on east side of Driftwood Creek 300 to 350 yards upstream,
Smithers district; Azolla locality on China (Asp) Creek, Princeton district; east side
1.45 miles from schoolhouse, Driftwood Creek, Smithers district; Tulameen River
opposite Vermilion Cliff and section about 25 feet above river level on south bank of
Tulameen River 400 yards west of old entry portal, Princeton district, British Columbia.

Plecia similkameena Scudder

Hypotypes 14449-14451

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 12, pl. 2, fig. 9; fig. 5, Nos.
2-4.
Oligocene, Tranquille Creek, Kamloops district and 40 feet above Pleasant Valley No. 2
Mine Portal, Tulameen River, Princeton district, British Columbia.

Plecia transitoria (Handlirsch)

Hypotypes 14465-14471

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 14, pl. 3, fig. 4; fig. 6, Nos.
7-14.
Oligocene, east bank from 300 to 350 yards upstream, Driftwood Creek, Smithers district;
40 feet above Pleasant Valley No. 2 Mine Portal, Tulameen River; 3 miles up north
fork Similkameen River; Tulameen River opposite Vermilion Cliff; road-cut in village
of Princeton directly below Princeton General Hospital, Princeton district; Horsefly
Mine, Quesnel district; and Tranquille Creek, Kamloops district, British Columbia.

Arthropoda

Plecia tulameenensis Rice

Holotype 14435; paratypes 14436, 14437; hypotype 14438

Rice, H.M.A., 1959, Geol. Surv., Canada, Bull. 55, p. 11, pl. 2, figs. 1, 4; fig. 3, Nos. 16, 20, 21; fig. 4, No. 19.

Oligocene, 40 feet above Pleasant Valley No. 2 Mine Portal, Tulameen River, Princeton district; Tranquille Creek, Kamloops district; and section about 25 feet above river level on south bank of Tulameen River 400 yards west of old entry portal, Princeton district, British Columbia.

Promastox archaicus Handlirsch

Holotype 7248

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 97, fig. 1.

Oligocene-Miocene, Horsefly Mine, Quesnel district, British Columbia.

Prometopia depilis Scudder

Holotype 6158

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 278.

1890, Fossil Insects N.A., vol. 2, p. 500, pl. 2, fig. 29.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 41.

Oligocene-Miocene, Quesnel, British Columbia.

Ptysmaphora fletcheri Scudder

Holotype 6147, a

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 21, pl. 1, fig. 6.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Ricania antiquata Scudder

Holotype 6136

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 12, pl. 1, fig. 3.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Sbenaphis quesneli see *Lachnus quesneli*

Sciara deperdita Scudder

Holotype 6167

Scudder, S.H.,

1878, Geol. Surv., Canada, Rept. Prog. 1876-77, p. 457.

1890, Fossil Insects N.A., vol. 2, p. 586, pl. 3, fig. 17.

Oligocene-Miocene, Quesnel, British Columbia.

Sciomyza revelata Scudder

Syntypes 6163, a

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 275.

1878, *ibid.*, Rept. Prog. 1876-77, p. 458.

1890, Fossil Insects N.A., vol. 2, p. 542, pl. 3, figs. 3-6.

Oligocene-Miocene, Quesnel, British Columbia.

Stenecphora punctalata Scudder

Holotype 6142, a

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 17, pl. 1, fig. 9.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Stenolocris venosa Scudder

Holotype 6144

Scudder, S.H., 1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 19, pl. 1, fig. 11.

Oligocene-Miocene, north fork Similkameen River, British Columbia.

Teleoschistus antiquus see *Euschistus antiquus**Telmatrechus stali* see *Hygrotrechus stali**Tenebrio primigenius* Scudder

Holotype 6151

Scudder, S.H.,

1879, Geol. Surv., Canada, Rept. Prog. 1877-78, p. 183B.

1890, Fossil Insects N.A., vol. 2, p. 483, pl. 2, fig. 32.

1895, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 1, p. 31.

Oligocene-Miocene, Nine Mile Creek, Similkameen River, British Columbia.

Tipula tulameena Handlirsch

Holotype 7274

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 123, fig. 31.

Oligocene-Miocene, Tulameen River opposite Vermilion Cliff, British Columbia.

Trichonta dawsoni Scudder

Holotype 6168

Scudder, S.H.,

1877, Geol. Surv., Canada, Rept. Prog. 1875-76, p. 272.

1890, Fossil Insects N.A., vol. 2, p. 590, pl. 3, figs. 12, 13.

Oligocene-Miocene, Quesnel, British Columbia.

Xylonomus lambei Handlirsch

Holotype 7249

Handlirsch, A., 1910, Geol. Surv., Canada, Contr. Can. Pal., vol. 2, pt. 3, p. 99, fig. 2.

Oligocene-Miocene, Tranquille Creek, Kamloops district, British Columbia,

ARTHROPODA-INCERTAE SEDIS

Anomalocaris canadensis Whiteaves

Holotype 3418

Whiteaves, J.F., 1906, Geol. Surv., Canada, Palaeoz. Fossils, vol. 3, pt. 4, p. 313, fig. 20.

Middle Cambrian, Mount Stephen, East Kootenay, British Columbia.

Eopteria richardsoni Billings

Holotype 756

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 306, figs. 298a, b.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 306, figs. 298a, b.

Beekmantown Formation, Lower Ordovician, near St. Antoine de Tilly, Quebec.

Arthropoda

Ischyrina winchelli Billings

Syntypes 2114, a

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 16, figs. 4a-c.

Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 339, pl. 56, figs. 6, 7.

Upper Ordovician [English Head Formation], Macasty Bay, Anticosti Island, Quebec.

Ischyrina plicata Billings

Holotype 2291

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 52.

Upper Ordovician [Ellis Bay Formation], Junction Cliff, Anticosti Island, Quebec.

=*Technophorus plicata*, Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 340, pl. 56, fig. 8.

Ribeiria (Ribeirina) calcifera Billings

Holotype 469

Billings, E.,

1865, "New Species of Lower Silurian Fossils", p. 340, figs. 326a-c.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 340, figs. 326a-c.

Beekmantown Formation, Lower Ordovician, Oxford tp., Grenville co., Ontario.

Ribeiria (Ribeirina) longiuscula Billings

Holotype 470

Billings E.,

1865, "New Species of Lower Silurian Fossils", p. 341, fig. 327.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 341, fig. 327.

Beekmantown Formation, Lower Ordovician, Oxford tp., Grenville co., Ontario.

Technophorus plicata see *Ischyrina plicata*

Technophorus punctostriatus-quincuncialis Foerste

Syntypes 8413, 8415

Foerste, A.F., 1914, Denison Univ. Bull., J. Sci. Lab., vol. 17, p. 316, pl. 2, figs.

13A, B.

Upper Ordovician, Chambly, Quebec.

=*Technophorus quincuncialis*, Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 249, pl. 30, figs. 13a, b.

WORMS-SCOLECODONTS

Arabellites sinuatus Walliser

Holotype 15018

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 22, pl. 5, figs. 1a, b.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Arthraria biclavata var. *westonensis* Foerste

Holotype 5597

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 78, pl. 5, fig. 3.

Upper Ordovician, south of bridge at Weston, Humber River, Ontario.

Burrow

Fig. spec. 8581

Foerste, A.F., 1924, Geol. Surv., Canada, Mem. 138, p. 78, pl. 6, figs. 4a, b.

Meaford Formation, Upper Ordovician, Clay Cliffs, Manitoulin Island, Ontario.

Cornulites flexuosus Hall

Hypotype 13211

Wilson, A.E., 1948, Geol. Surv., Canada, Bull. 11, p. 54, pl. 25, fig. 3.

Lowville beds, Ottawa Formation, Middle Ordovician, first quarry on Merivale Road south of Carling Avenue, Ottawa, Ontario.

Cornulites parvus Wilson

Holotype 6752

Wilson, A.E., 1926, Geol. Surv., Canada, Contr. Can. Pal., Bull. 44, p. 31, pl. 8, fig. 1.

Beaverfoot Formation, Upper or Lower Ordovician, east of Palliser Pass, British Columbia.

Cornulites serpularius Schlotheim

Hypotypes 6009, 6010

McLeam, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 39, pl. 2, figs. 12, 13.

Beechhill Formation, Lower Silurian, Beechhill Cove, Arisaig, Nova Scotia.

Cornulites (Ortonis) sublaevis Whiteaves

Syntypes 4215, a-d

Whiteaves, J.F., 1891, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 3, p. 210, pl. 28, figs. 6 [4215], 7 [4215a].

Upper Devonian, 40 miles above mouth Hay River, District of Mackenzie.

Ildraites beckeri Walliser

Holotype 15019

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 23, pl. 5, figs. 2a-c.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Ildraites n. sp.

Holotype 15020

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 23, pl. 5, figs. 3a-c.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Worms—Scolecodonts

Lechthaylus? curiosus Wilson

Holotype 13210

Wilson, A.E., Geol. Surv., Canada, Bull. 11, p. 53, pl. 25, figs. 6, 7.

Cobourg beds, Ottawa Formation, Middle Ordovician, Mines Branch excavation at corner Rochester and Lydia Streets, Ottawa, Ontario.

Leodicites alatus Walliser

Holotype 15022

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 24, pl. 5, figs. 5a, b.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Leodicites sublunatus Walliser

Holotype 15021

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 24, pl. 5, figs. 4a, b.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Leodicites sp.

Fig. spec. 15023

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 25, pl. 5, figs. 6a, b.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Lumbriconereites cf. *L. webbi* Stauffer

Hypotypes 15034–15036

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 25, pl. 7, figs. 1–3.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Lumbriconereites n. sp.

Holotype 15037

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 25, pl. 7, figs. 4a–c.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Lumbriconereites sp.

Fig. spec. 15038

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 26, pl. 7, figs. 5a–c.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Oeononites sp.

Hypotype 13212

Wilson, A.E., 1948, Geol. Surv., Canada, Bull. 11, p. 54, pl. 24, figs. 7, 8.

Cobourg beds, Ottawa Formation, Middle Ordovician, Mines Branch excavation at corner of Rochester and Lydia Streets, Ottawa, Ontario.

Polychaetaspis? kozlowskii Walliser

Holotype 15024; paratypes 15025, 15026

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 26, pl. 6, figs. 1–3.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Polychaetaspis cf. *P. wyszogrodensis* Kozłowski

Hypotypes 15027–15032

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 27, pl. 6, figs. 4–10.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Scolecodont sp. indet.

Fig. specs. 15039, 15040

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 28, pl. 7, figs. 6a, b, 7a, b.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Serpula annulata (Dawson)

Hypotype 7744

Bell, W.A., 1929, Geol. Surv., Canada, Mem. 155, p. 97, pl. 5, figs. 1, a. Mississippian, Nova Scotia.

Serpula hartti Bell

Holotype 7748

Bell, W.A., 1929, Geol. Surv., Canada, Mem. 155, p. 98, pl. 5, fig. 2. Mississippian, Miller's quarry, Windsor, Nova Scotia.

Serpula semicoalita Whiteaves

Holotype 5058

Whiteaves, J.F., 1889, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 2, p. 185, pl. 26, fig. 1.

Cretaceous, Vermilion River, tp. 25, rge. 20, W. Prin. mer., Manitoba.

Serpulites dissolutus Billings

Syntypes 1758, 1759

Billings, E.,

1862, "New Species of Lower Silurian Fossils", p. 56.

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 56.

Middle Ordovician, 3 miles above Lachine and Lac Ouareau River, Quebec.

Serpulites longissimus Sowerby

Hypotype 6212

McLeam, F.H., 1924, Geol. Surv., Canada, Mem. 137, p. 36, pl. 1, fig. 12. Stonehouse? Formation, Upper Silurian, coast section, Arisaig, Nova Scotia.

Serpulites splendens Billings

Syntypes 1091, a-e

Billings, E., 1859, Can. Naturalist Geol., vol. 4, p. 470.

'Chazy', Middle Ordovician, Island of Montreal, Quebec.

Spirorbis avonensis Bell

Holotype 14414; paratypes 14410–14413

Bell, W.A., 1960, Geol. Surv., Canada, Mem. 314, p. 41, pl. 19, figs. 10–12; pl. 20, fig. 1.

Horton Bluff Formation, Mississippian, Halfway River 5,500 feet downstream from bridge at Bishopville and Horton Bluffs north of Blue Beach fault, Nova Scotia.

Spirorbis caperatus M'Coy

Hypotypes 7641, a

Bell, W.A., 1929, Geol. Surv., Canada, Mem. 155, p. 98, pl. 6, figs. 1, 2.

Mississippian, Minudie, Cumberland co., Nova Scotia.

Worms—Scolecodonts

Spirorbis omphalodes (Goldfuss)

Hypotypes 4214, a-e

Whiteaves, J.F., 1891, Geol. Surv., Canada, Contr. Can. Pal., vol. 1, pt. 3, p. 209,
pl. 28, figs. 3-5.

Upper Devonian, 40 miles above mouth Hay River, District of Mackenzie.

Worm Burrows?

Fig. spec. 4505

Williams, M.Y., 1919, Geol. Surv., Canada, Mem. 111, pl. 2, fig. 2.

Whirlpool Formation, Cataract Group, Lower Silurian, Glen William, Ontario.

Worm burrows?

Fig. specs. 6522, a

Wilson, A.E., 1932, Trans. Roy. Soc. Can. ser. 3, vol. 26, sec. 4, p. 378, pl. 1, figs.
3, 4.

Upper Chazy [Aylmer Formation], Middle Ordovician, shaft Barnhart Island near Cornwall,
Ontario.

CONODONTS

Angulodus n. sp.

Holotype 15069

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 29, pl. 8, fig. 19.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Hindeodella cf. *H. equidentata* Rhodes

Hypotype 15065

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 30, pl. 8, fig. 15.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Hindeodella n. sp.

Holotype 15066

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 30, pl. 8, fig. 16.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Ligonodina sp.

Fig. spec. 15046

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 30, pl. 7, fig. 13.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Lonchodina greilingi Walliser

Hypotypes 15067, 15068

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 31, pl. 8, figs. 17, 18.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Ottawella sinclairi Wilson

Holotype 13213

Wilson, A.E., 1948, Geol. Surv., Canada, Bull. 11, p. 55, pl. 24, fig. 6.

Cobourg beds, Ottawa Formation, Middle Ordovician, Mines Branch excavation at corner of Rochester and Lydia Streets, Ottawa, Ontario.

Ottawina trentonensis Wilson

Holotype 13214

Wilson, A.E., 1948, Geol. Surv., Canada, Bull. 11, p. 56, pl. 25, fig. 5.

Cobourg beds, Ottawa Formation, Middle Ordovician, Mines Branch excavation at corner of Rochester and Lydia Streets, Ottawa, Ontario.

Ozarkodina denckmanni Ziegler

Hypotypes 15063, 15064

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 31, pl. 8, figs. 13, 14.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Conodonts

Ozarkodina sp.

Fig. specs. 15172, a

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, figs. 23, 24.
Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer.,
Alberta.

Paltodus cf. *P. acostatus* Branson and Branson

Hypotype 15043

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 31, pl. 7,
fig. 10.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Paltodus cf. *P. recurvatus* Rhodes

Hypotype 15041

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 31, pl. 7,
fig. 8.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Paltodus cf. *P. unicostatus* Branson and Mehl

Hypotype 15042

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 32, pl. 7,
fig. 9.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Plectospathodus extensus Rhodes

Hypotype 15070

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 32, pl. 8,
fig. 20.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Polygnathus spp.

Fig. specs. 15171, a

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, figs. 19, 20.
Exshaw Formation, Mississippian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer.,
Alberta.

Prioniodina bicurvata prionoides Walliser

Holotype 15059; paratypes 15058, 15060

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 33, pl. 8,
figs. 8-10.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Prioniodina cf. *P. bicurvata prionoides* Walliser

Hypotype 15061

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 33, pl. 8,
fig. 11.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Prioniodina cf. *P. excavata* (Branson and Mehl)

Hypotype 15062

Walliser, O.H., in Boucot, A.J. et al., 1960, Geol. Surv., Canada, Bull. 65, p. 32, pl. 8,
fig. 12.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Siphonodella duplicata (Branson and Mehl)

Hypotypes 15170, a

Copeland, M.J., 1960, Trans. Roy. Soc. Can., ser. 3, vol. 54, sec. 4, pl. 1, figs. 21, 22.

Exshaw Formation, Upper Silurian, Crowsnest Pass, sec. 8, tp. 8, rge. 5, W. 5th mer., Alberta.

Spathognathodus canadensis Walliser

Holotype 15051; paratypes 15052, 15053

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 34, pl. 8, figs. 1-3.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Spathognathodus cf. *S. canadensis* Walliser

Hypotypes 15054, 15055

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 34, pl. 8, figs. 4a, b, 5a-c.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Spathognathodus sp.

Fig. spec. 15056

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 35, pl. 8, figs. 6a, b.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Spathognathodus n. sp.

Holotype 15057

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 35, pl. 8, fig. 7.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Trichonodella inconstans Walliser

Hypotypes 15044, 15045

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 35, pl. 7, figs. 11, 12.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

Species indet. a-d

Fig. specs. 15047-15050

Walliser, O.H., in Boucot, A.J. *et al.*, 1960, Geol. Surv., Canada, Bull. 65, p. 35, pl. 7, figs. 14-17.

Sutherland River Formation, Upper Silurian, Douro Range, West Devon Island, Arctic.

INCERTAE SEDIS

Cruziana similis Billings

Syntype 346

Billings, E.,

1872, *Can. Naturalist Geol.*, n. ser., vol. 6, p. 469, fig. 6.

1874, *Geol. Surv., Canada, Palaeoz. Fossils*, vol. 2, pt. 1, p. 68, fig. 37.

'Upper Cambrian' [Lower Ordovician], Great Bell Island, Newfoundland.

Ctenichnites bisulcatus Matthew

Holotype 17693

Matthew, G.F., 1903, *Geol. Surv., Canada, Rept. Cambrian of Cape Breton*, p. 239.

Upper Cambrian, falls of MacMullin Brook, Indian Brook, Escasonie, Nova Scotia.

Cyclocrinites halli see *Pasceolus halli*

Cyclocrinites intermedius (Billings) [Algae]

Hypotype 8131

Twenhofel, W.H., 1928, *Geol. Surv., Canada, Mem.* 154, p. 102, pl. 1, fig. 10.

Gun River Formation, Middle Silurian, Cape MacGilvray, Anticosti Island, Quebec.

Eophyton jukesii Billings

Holotype 351

Billings, E.,

1872, *Can. Naturalist Geol.*, n. ser., vol. 6, p. 466.

1874, *Geol. Surv., Canada, Palaeoz. Fossils*, vol. 2, pt. 1, p. 66.

'Upper Cambrian' [Lower Ordovician], Great Bell Island, Newfoundland.

Eophyton linnaeanum? Torell

Hypotype 343

Billings, E.,

1872, *Can. Naturalist Geol.*, n. ser., vol. 6, p. 466, fig. 1.

1874, *Geol. Surv., Canada, Palaeoz. Fossils*, vol. 2, pt. 1, p. 65, fig. 32.

'Upper Cambrian' [Lower Ordovician], Great Bell Island, Newfoundland.

Ischadites canadensis Billings

Holotype 2590

Logan, W.E., 1863, "Geology of Canada", *Geol. Surv., Canada, Rept. Prog.*, p. 309, fig. 313.

Lower Silurian [Cabot Head Formation], Limehouse, Ontario.

=*Receptaculites canadensis*, Billings, E.,

1865, *ibid.*, *Palaeoz. Fossils*, vol. 1, p. 385, fig. 362.

1865, *Can. Naturalist Geol.*, n. ser., vol. 2, p. 191, fig. 10.

Williams, M.Y., 1919, *Geol. Surv., Canada, Mem.* 111,

pl. 5, fig. 1.

Ischadites? *insularis* see *Receptaculites insularis*

Ischadites jonesi see *Receptaculites jonesi*

Ischadites ottawaensis Wilson

Holotype 9321; paratype 9323, a, b [specimen and thin section]

Wilson, A.E., 1948, Geol. Surv., Canada, Bull. 11, p. 26, pl. 13, figs. 1-4.

Cobourg beds, Ottawa formation, Middle Ordovician, Booth Street and south end of LeBreton Street, Ottawa, Ontario.

Oldhamia keithi Ruedemann

Holotype 13603

Ruedemann, R., 1942, New York State Mus., Bull. 327, pl. 5, figs. 1, 2.

Lower Ordovician, Mechins Point, Gaspé, Quebec.

Pasceolus globosus Billings [Algae]

Syntypes 1376, a-e

Billings, E.,

1857, Geol. Surv., Canada, Rept. Prog. 1853-56, p. 343.

1865, *ibid.*, Palaeoz. Fossils, vol. 1, p. 391.

1865, Can. Naturalist Geol., n. ser., vol. 2, p. 195, fig. 14.

Wilson, A.E., 1948, *ibid.*, Bull. 11, p. 28, pl. 14, figs. 4 [1376b], 5 [1376d].

Middle Ordovician [Cobourg? beds], Ottawa, Ontario.

Pasceolus globosus Billings [Algae]

Hypotype 9333

Wilson, A.E., 1948, Geol. Surv., Canada, Bull. 11, p. 28, pl. 14, fig. 6.

Cobourg beds, Ottawa Formation, Middle Ordovician, south end LeBreton Street, Ottawa, Ontario.

Pasceolus gregarius Billings [Algae]

Syntypes 2230, a, c, d

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 72.

Lower Silurian [Becscie Formation], Reef Point, Anticosti Island, Quebec.

=*Cyclocrinites gregarius*, Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 102.

Pasceolus halli Billings [Algae]

Syntype 2227

Billings, E.,

1857, Geol. Surv., Canada, Rept. Prog. 1853-56, p. 342.

1865, *ibid.*, Palaeoz. Fossils, vol. 1, p. 390, fig. 366.

1865, Can. Naturalist Geol., n. ser., vol. 2, p. 195, fig. 13.

Logan, W.E., 1863, "Geology of Canada" Geol. Surv., Canada, Rept. Prog., p. 309, fig. 312. Wilson, A.E., *ibid.*, Bull. 11, pl. 13, fig. 6; pl. 14, fig. 7 [holotype 2227].

Upper Ordovician [Ellis Bay Formation], White Cliff, Ellis Bay, Anticosti Island, Quebec.

=*Cyclocrinites halli*, Twenhofel, 1928, *ibid.*, Mem. 154, p. 101 [holotype and paratypes 2227].

Pasceolus intermedius Billings [Algae]

Syntypes 2338, a-d, f, g

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 72.

Middle Silurian [Gun River Formation], 3 miles west of Jupiter River, Anticosti Island, Quebec.

Receptaculites cf. *arcticus* Etheridge

Hypotypes 6497, 6498

Wilson, A.E., 1931, Trans. Roy. Soc. Can., ser. 3, vol. 25, sec. 4, p. 290, pl. 1, figs. 1, 2.

Upper Ordovician, drift at Cape Dorset and at Coral Bay, Lake Nettilling, Baffin Island, Arctic.

Incertae sedis

Receptaculites calciferus Billings

Holotype 461, a [parts of one specimen]

Billings, E.,

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 359, fig. 346; p. 384, fig. 358.

1865, Can. Naturalist Geol., n. ser., vol. 2, p. 190, fig. 6.

Lower Ordovician [Romaine Formation], Mingan Islands, Quebec.

Receptaculites canadensis see *Ischadites canadensis*

Receptaculites? elegantulus Billings

Holotype 462

Billings, E., 1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 360, fig. 347.

Lower Ordovician [Romaine Formation], Mingan Islands, Quebec.

Receptaculites? insularis Billings

Holotype (?) 2228

Billings, E., 1866, Geol. Surv., Canada, Cat. Sil. Fossils Anticosti, p. 29.

Upper Ordovician [Ellis Bay Formation], Ellis Bay, Anticosti Island, Quebec.

=*Ischadites? insularis*, Twenhofel, W.H., 1928, *ibid.*, Mem. 154, p. 102, pl. 1, fig. 9.

Receptaculites iowensis (Owen)

Hypotype 1367

Billings, E.,

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 385, fig. 364.

1865, Can. Naturalist Geol., n. ser., vol. 2, p. 191, fig. 12 [fig. 11=*R. jonesii*].

Middle Ordovician, Ottawa, Ontario.

=*Ischadites ottawaensis*, Wilson, A.E., 1948, Geol. Surv., Canada, Bull. 11, p. 26.

Receptaculites jonesi Billings

Syntypes 3257, a [1 specimen], b, c

Billings, E.,

1865, Geol. Surv., Canada, Palaeoz. Fossils, vol. 1, p. 389, figs. 363, 365a, b [3257, a].

1865, Can. Naturalist Geol., n. ser., vol. 2, p. 191, fig. 11 [fig. 12=*R. iowensis*].

Devonian [Grande Greve Formation], Grande Greve, Gaspé, Quebec.

=*Ischadites jonesi*, Wilson, A.E., 1948, Geol. Surv., Canada, Bull. 11, pl. 13, fig. 5 [holotype 3257a].

Receptaculites occidentalis Salter

Syntypes 1125, a, d, f, h, j, k, m, n, p

Salter, J.W., 1859, Geol. Surv., Canada, Can. Org. Rem., dec. 1, p. 45, pl. 10, figs. 1 [1125], 2 [1125a].

Wilson, A.E.,

1931, Trans. Roy. Soc. Can., ser. 3, vol. 25, sec. 4, p. 288, pl. 1, fig. 4 [1125m].

1948, Geol. Surv., Canada, Bull. 11, p. 28, pl. 14, figs. 1-3.

Middle Ordovician [Leary-Rockland beds], Paquette Rapids, Allumette Island, Quebec.

Receptaculites oweni Hall

Hypotype 9089

Hume, G.S., 1925, Geol. Surv., Canada, Mem. 145, pl. 4, fig. 1.

Liskeard Formation, Ordovician, Lake Timiskaming area, Ontario.

Receptaculites sp.

Fig. spec. 9078

Hume, G.S., 1926, Geol. Surv., Canada, Contr. Can. Pal., Bull. 44, p. 62, pl. 12.

Ordovician, North Arm Great Slave Lake, District of Mackenzie.

INDEX TO VOLUMES I, II, AND III

- abbreviata*, *Cyrtospira* II-16
abducta, *Gresslya* II-118
abenacus, *Paradoxides* III-24
abita, *Brachypeza* III-122
abnorme, *Elrodoceras* II-208
abnormis, *Graptolithus* I-100
 Paraechmina III-109
 Zylograptus I-100,105
aboyensis, *Illaenus* III-64
Abrotocrinus sp. I-74
abrupta, *Batostomella* I-111
 Ctenodonta II-101
 Murchisonia (*Stegocoelia*) II-48
 Pleurotomaria II-61
abruptum, *Diestoceras* II-205
 Trochonema II-61,80
 Yakounoceras II-338
abruptus, *Bathyurellus* III-41
abscissum, *Orthodesma*? II-146
acadica, *Ambocoelia* I-128
 Archimylacris III-119
 Cypricardella II-105
 Cypridina III-99
 Grammysia II-117
 Kloedenia III-95
 Leptodesma II-126
 Tabulipora I-126
acadicus var. *declivis*, *Acadagnostus* .. III-3
acadiensis, *Camarotoechia* I-132
acanthoptera, *Stropheodonta* I-203
 Strophomena I-131,203
acanthopterus, *Brachyprion* I-131,203
Achatella sp. III-35
achates, *Achatella* III-55
 Dalmanites III-55
 Pterygometopus III-78
aciculata, *Goniosiphonia* II-25
aciculum, *Bactrites* II-191
acinaces, *Piloceras* II-245
Acmaea sp. undet. II-6
acostatus, *Paltodus* III-140
acrea, *Murchisonia* II-48
 Turritoma II-48
Actinocamax? sp. indet. II-261
Actinostroma sp. I-20
aculeata, *Loxonema* II-38
acuminata, *Lingula* I-155
 Maclurea II-40
 Orthis I-177
 Trimerella I-212
acuminatum, *Lyrodesma* II-129
acutangularis, *Leaia* III-91
acuticosta, *Schlotheimia* (*Scamnoceras*) II-328
acuticostatum, *Metaspyroceras*? II-221
acutidactylus, *Dendrocrinus* I-77
acutilirata, *Leaia* III-91
acutistriata, *Aucella* II-90
acutula, *Aclisina* II-6
acutumbona, *Cyrtodonta* II-107
 Vanuxemia II-107
acutus, *Bathyrurus* III-42
 Discotropites II-281
 Homagnostus III-17,18
 Pseudagnostus? III-17
 Subulites II-77
adamsi, *Ptychoparella* III-30
 Ptychoparia III-30
adamsii, *Conocephalites* III-30
addyensis, *Nevadia* III-21
adelina, *Murchisonia* II-48
adherens, *Crepirora* I-125
 Stenopora I-125
adomata, *Myophoria* II-141
adrastia, *Modiolopsis* II-133
adventica, *Holospira* II-31
Aechmina sp. III-93
aedilis, *Eridotrypa* I-113
aeolus, *Hemiargus* III-62
aequale, *Sphaerium* II-171
aequalis, *Primitia* III-109
aequalvalvis, *Ptychoptera* II-168
affine, *Beudanticeras* II-273,280
 Calathium I-8
 Desmoceras II-280
 Diaphorostoma II-60
 Orthodesma II-146
affine var. *glabrum*, *Desmoceras* II-280
affinis, *Agraulos* III-4
 Ambonychia II-85
 Anodontopsis II-87
 Cyrtina I-142

Cyrtodonta	II-107	Lima	II-127
Dikelocephalus	III-12	Nudirostra	I-165
Heliolites	I-41	Ostrea	II-149
Leptaena	I-153	Rissoina	II-73
Levisella	III-12	Saxicava?	II-170
Lingulella	I-162	Senescella	III-111
Lyellia	I-41	Spirifer	I-198
Maclurea	II-40	Trochammina	I-7
Nileus	III-73	Unio	II-177
Öpikinella	I-170	albertina, Ctenodonta	II-101
Phillipsastraea	I-56	albionensis, Cleidophorus	II-96
Platyostoma	II-60	alcesiana, Protocardia	II-163
Prasopora	I-121	alcesianus, Pecten	II-154
Remopleurides	III-78	alceste, Metoptoma	II-45
Thamnograptus	I-109	alcocki, Bythocypris	III-97
Thetis	II-174	Eukloedenella	III-100
affinis var. minuta, Cyrtodonta	II-107	alcyone, Ptilodictya	I-123
agaricus, Beloitoceras	II-192	alethes, Bassleroceras	II-197
agarista, Pleurotomaria	II-61	Cyrtoceras	II-197
agava, Pleurotomaria	II-61	aleutica, Natica	II-54
aggregatum, Cystiphyllum	I-50	alexandra, Murchisonia	II-53
agnes, Carbonita	III-98	Omospira	II-53
"Agnostus" spp. A-E	III-4	aliciae, Quoiechia	II-168
ahsisi, Modiolus	II-136	alienum, Orthoceras	II-228
ahsisi var. stelcki, Modiolus	II-137	allani, Allanaria	I-127
ainslei, Rhynchotrema	I-193	Chondroceras	II-276
Ajacicyathus sp.	I-13	Gastrolites	II-285
akpatokensis, Lophospira	II-36	Saxitoniceras	II-326
alacer, Asaphus	III-39	allani circularis, Camarotoechia	I-132
Brachyaspis	III-39	allani greenockensis, Camarotoechia ..	I-132
Heliomeroides	III-62	allifordense, Harpoceras	II-291
alaricus, Proetus	III-76	Alloclionites sp.	II-263
alaskensis, Elkania	I-148	allumettense, Actinoceras	II-185
Oenopota	II-55	Armenoceras	II-185
alata, Mastigospira	II-43,44,342	Kionoceras	II-217
alatus, Graptolithus	I-101	Ormoceras	II-185,227,229
Hyolithes	II-342	Orthoceras	II-229
Leodicites	III-136	Paquettoceras	II-243
Sphaerophthalmus	III-32	Spyroceras	II-253
Tetragraptus	I-101	alphacordatum, Cardioceras	
albata, Heliomera	III-61	(Scarburgiceras)	II-274
albapinensis, Spirifer	I-198	alta, Asmussia	III-89,92
albensis?, Scalaria	II-74	Pseudestheria	III-92
alberta, Nisusia	I-165	alternata, Rafinesquina	I-184
albertaensis, Dinotocrinus	I-78	alternata alata, Rafinesquina	I-184
Trigonia	II-174	alternata intermedia, Rafinesquina ..	I-184
albertense, Allorisma	II-85	alternata plana, Rafinesquina	I-184
Dunveganoceras	II-283	alternata platys, Rafinesquina	I-185
Stemmatoceras	II-331	alternata pota, Rafinesquina	I-185
albertensis, Anomia	II-88	alternata quadrata, Rafinesquina	I-185
Hypotetragona	III-103	alternata semiquadrata, Rafinesquina ..	I-185
Inoceramus	II-120	alternata transversa, Rafinesquina ..	I-185
Laternula	II-126	alterniradiata, Schuchertella	I-196
Leptosolen	II-127	alternistriata, Conularia	II-340

altiformis, Pteronitella	II-167	ampla, Opikina	I-168
altivilis, Asaphus	III-40	Vanuxemia	II-179
Carbonita	III-98	Amplexi-Zaphrentis sp. A,B,C,D	I-61
Microtrypa	I-163	sp. E	I-62
altipolum, Rhamphopyge	III-79	amplexicaulis cf. pertenuis,	
altivolvis, Loxonema	II-38	Diplograptus	I-99
altosegmentatum, Armenoceras	II-189	Amplexoides sp. A	I-35
altus, Kanastephanus	II-303	amplimarginatus, Bathyrurus	III-43
Maclurites	II-42	amplus, Strophostylus	II-76
alveolata, Columnaria	I-25	Ampyx sp. A,B	III-38
alveolata blainvilli, Columnaria	I-25	amygdalina, Ambonychia	II-85
alveolata minima, Columnaria	I-25	Leperditia	III-104
alveolata rigida, Columnaria	I-25	amygdaloidea, Meleagrina	II-132
alveolata stellaris, Columnaria	I-25	anax, Orthoceras	II-229
alveolatum, Orthodesma	II-146	anceps, Gonioceras	II-213
amator, Hercocyrtoceras	II-225	angela, Ctenodonta	II-101
Oncoceras	II-225	angelica occidentalis, Athyris	I-128
americana, Grunewaldtia	I-150	angelini, Bathyrurus	III-43
Holocephalina	III-17	Holometopus	III-62
Liospira	II-35	anguinus, Gastroplites	II-285
Lyellia	I-41	angularis parvatrypa, Mesotrypa	I-118
Orbipora	I-120	angulata, Bigenerina	I-4
americana var. cupressensis,		Petraia	I-31
Tancredia	II-172	angulatoides, Hongkongites	II-295
americana var. zygocornis, Bollia	III-96	angulatum, Kionoceras	II-217
americanum, Acrochordiceras (Para-		Streptelasma	I-31
crochordiceras)	II-263	angulatus, Dendrocrinus	I-77
americanus, Agnostus	III-3	Goniocrinus	I-80
Halorites	II-289	Indojuvavites	II-297
Hyalithes	II-342	Palaeocrinus	I-77
Illaenus	III-64	angulifera, Oreohelix	II-57, 58
Telephus	III-82	Orthonota	II-147
Neogastroplites var. A,C,D	II-311	Patula	II-58
ami, Stromatopora	I-23	Angulodus sp.	III-139
Tetragraptus	I-101	angusta, Aphrophora	III-121
amiae, Brodioptera	III-120	Cyrtodonta	II-107
Euproops	III-85	Fusispira	II-22
amicarum, Manipora	I-29	Pterotheca	II-71
amii, Hormotoma	II-31	Whiteavesia?	II-181
Isochilina	III-103	angustata, Bellerophon	II-8
Palaeosolen	II-151	angustatus, Tremanotus	II-8
Pterinea	II-166	angusticollis, Illaenus	III-64
ammon, Cyrtoceras	II-197	Angustidontus sp.	III-86
Ammodiscus sp.?	I-1	angustifolius, Cardiograptus	I-95
Ammonites gen. & sp. indet.	II-266	Phyllograptus	I-107
amnipacis, Myoconcha	II-140	angustifrons, Modiolopsis	II-133
Amoeboceras sp. indet.	II-266	Whitfieldella	I-214
amoena, Platystrophia	I-178	angustipennis, Penthetria	III-126
amoena longicardinalis, Platystrophia	I-178	Plectia	III-126, 130
amoena robusta, Platystrophia	I-178	anna, Leperditia	III-104
Amphion pygidium	III-37	Murchisonia	II-48
Amphipora sp.	I-20	Phyllograptus	I-107
amphitrite, Euconia	II-62	Romingerina	I-195
Pleurotomaria	II-62	Thamnograptus	I-109

anna longus, <i>Phyllograptus</i>	I-107	Aorocrinus sp.	I-74
annulata, <i>Serpula</i>	III-137	aperta, <i>Petraia</i>	I-31
annulatum, <i>Endoceras</i>	II-208	<i>Raphistoma</i>	II-71
annulatus, <i>Euomphalus</i> (<i>Straporollus</i>) ..	II-20	<i>Raphistomina</i>	II-71
anomala, <i>Metoptoma</i>	II-45	aperta var. <i>ampla</i> , <i>Raphistomina</i>	II-72
<i>Voisella</i>	II-181	apertum, <i>Diestoceras</i>	II-247
anomioides, <i>Ostrea</i>	II-149	<i>Lambeophyllum?</i>	I-31
anstedii, <i>Calathium</i>	I-8	<i>Poterioceras</i>	II-247
antediluvianum, <i>Calyptites</i>	III-123	apertum rotundum, <i>Lambeophyllum</i>	I-28
antennarius, <i>Climacograptus</i>	I-95	<i>Aphrophora</i> sp.	III-121
<i>Cryptograptus</i>	I-96	apicalis, <i>Micromitra</i>	I-171
antennarius gracilis, <i>Cryptograptus</i>	I-96	<i>Orthis</i>	I-171
anterior, <i>Orthoceras</i>	II-229	<i>Rafinesquina</i>	I-185
anthracicola, <i>Cyprina</i> (?)	II-106	apollo, <i>Cheirurus</i>	III-51
<i>Anthracomartus</i> sp.	III-89	<i>Lituites</i>	II-219
<i>Anthracophausia</i> sp.	III-113	<i>Pseudosphaerexochus</i>	III-77
<i>Anthrappalaemon</i> sp.	III-13	<i>Tarphyceras</i> (?)	II-219
anticonvexa, <i>Holophragma</i>	I-28	appressa, <i>Astarte</i>	II-89
<i>Bighornia</i>	I-28	approximatum, <i>Dictyonema</i>	I-97
anticoستيense, <i>Actinoceras</i>	II-185, 228	<i>Orthodesma</i>	II-147
<i>Cyathophyllum</i>	I-36	approximatus, <i>Strombodes</i>	I-44
<i>Diestoceras</i>	II-205	apriniformis, <i>Homoeospira</i>	I-152
<i>Orthoceras</i>	II-228	<i>Apsidoceras</i> sp.	II-189
<i>Rhynchotrema</i>	I-194	<i>Apsidoceratidae</i> gen. & sp. indet.	II-189
<i>Schuchertoceras</i>	II-193	aquilina, <i>Pseudolingula</i>	I-183
<i>Spyroceras</i>	II-253	aquilonaris, <i>Bronteus</i>	III-47
anticoستيensis, <i>Amphilichas?</i>	III-71	aquilonarium, <i>Sphaerium</i>	II-171
<i>Billingsites</i>	II-193	aquilonius, <i>Hemiarges</i>	III-62
<i>Catazyga</i>	II-137	arabella, <i>Pleurotomaria</i>	II-62
<i>Calapoecia</i>	I-24	arachne, <i>Pleurotomaria</i>	II-62
<i>Chasmops</i>	III-51	<i>Trochonebella?</i>	II-62
<i>Cyrtodonta?</i>	II-107	arata, <i>Cuneameya</i>	II-104
<i>Palaeacmaea</i>	II-4	<i>Yoldia</i>	II-183
<i>Pleurocystites</i>	I-70	arborea, <i>Monticulipora</i>	I-119
<i>Rhynchonella</i>	I-191	arcana, <i>Formica</i>	III-124
antigonishense, <i>Orthoceras</i>	II-229	"Arcestes" sp.	II-268
antigonishensis, <i>Palaeosolen</i>	II-152	<i>Archaeopharetra</i> sp.	I-14
antiopa, <i>Chonetes</i>	I-137	archaicus, <i>Promastox</i>	III-132
antipatris, <i>Malayites</i>	II-308	<i>Archaeocyathellus</i> sp.	I-13
antiqua, <i>Binneya</i>	II-9	<i>Archaeocyathus</i> sp.	I-14
<i>Clinopistha</i> (?)	II-97	<i>Archimylacris</i> sp. 1, 2	III-119
<i>Labechia</i>	I-22	sp. (pronotum)	III-119
<i>Meleagrinnella</i>	II-132	archisikanni, <i>Modiolus</i>	II-137
<i>Monilopora</i>	I-55	<i>Arctica</i> sp.	II-89
<i>Paracyclas</i>	II-152	arctica, <i>Carbonicola</i>	II-94
<i>Phenacocyclas</i>	II-157	<i>Hiatella</i> (<i>Saxicava</i>)	II-119
antiquata, <i>Ricania</i>	III-132	<i>Yoldia</i>	II-183
antiquatus, <i>Cryptophragmus</i>	I-22	arcticameratum, <i>Maelonoceras</i>	II-220
antiquum, <i>Dentalium</i>	II-3	arcticum, <i>Diestoceras</i>	II-205
<i>Orthodesma?</i>	II-147	<i>Streptelasma</i>	I-32
antiquus, <i>Cladochonus</i>	I-55	arcticus, <i>Receptaculites</i>	III-143
<i>Euschistus</i>	III-124	arctigena, <i>Beyrichia</i> (<i>Beyrichia</i>)	III-95
<i>Teleoschistus</i>	III-124	<i>Arctinurus</i> sp.	III-39
antiquus bursifer, <i>Climacograptus</i>	I-95	<i>Arctoasteroceras?</i> sp. indet.	II-268

Arctocephalites? sp. indet.	II-269	Arniotites sp. uncertain	II-271
Arctosirenites sp. indet.	II-269	arnoldi, Cactocrinus	I-75
arcuata, Beyrichia	III-95	Kawina	III-69
Athyris (Merista)	I-128	artemesia, Murchisonia	II-40
Grammysia	II-117	artemis, Lingula	I-155
Menoeidina	III-108	arthaberii var. cameroni, Ussurites ...	II-335
Platyantyx	III-43	articulatum, Cyathophyllum	I-36
arcuatus, Bathyrurus	III-43	articulosus, Castocrinus	I-80
Didymograptus	I-101	Cremacrinus	I-80
Graptolithus	I-101	Heterocrinus	I-80
Harpillaenus	III-61,64	arundinaceum, Diphyphyllum	I-50
Illaenus	III-64	Disphyllum	
arcuoliratum, 'Spyroceras'	II-253	[Synaptophyllum]	I-51
arduini, Cycloclitites	II-277	Synaptophyllum	I-50
arana, Posidonia	II-162	arundineum, Donacoceras	II-207
arenacea, Anthracomya	II-88	Asaphid, gen. & sp. indet.	III-39
arenaria, Murchisonia	II-48	ashburnerii, Cymbophora	II-105
Mya	II-140	asper, Murchisonia	II-48
Orbiculoidea	I-170	Paleofavosites	I-43
arenicola, Isotelus	III-68	aspera, Lophospira	II-48
arenosa, Solenopleura	III-31	asperata, Conularia	II-340
arenosus, Conocephalites	III-31	asperatus, Deocrinus	I-86
Perimetopus	III-31	Rhodocrinus	I-86
areolata, Spatiopora	I-125	asperostriata, Straparollina	II-75
arethusia, Stricklandia	I-201	asperostriatus, Straparollus	II-75
Strophomena	I-203	aspidoides, Neoagnostus	III-73
Syntrophia	I-201	assimilis, Belemnites	II-262
argentea, Rhynchonella	I-191	assiniboensis, Nucula	II-144
argillensis, Anodonta	II-87	Pecten	II-154
argo, Bellerophon	II-8	astartaeformis, Ctenodonta	II-101
Tropidodiscus?	II-8	Asthenophyllum sp. A	I-36
arguata, Ptilodictya	I-123	astraeiforme, Diphyphyllum	I-62
argus, Lehua	III-70	atavus, Ptychagnostus	III-29
Arietites sp. indet.	II-269,270	athabascense, Cyathophyllum	I-49
arionoides, Ferrissia	II-21	athabascensis, Leiorthynchus	I-153
arisaigensis, Amphistrophia	I-128	Melampus	II-44
Nucula	II-144	Nudirostra	I-165
Orthonota	II-148	athabaskaensis, Brachydontes	II-92
Schizophorella	I-196	athabaskensis, Inoceramus	II-120
aristides, Cyrtoceras	II-197	Nucula	II-144
Endoceras?	II-197	athabaskensis esplanadensis,	
arkonense, Arkonoceras	II-229	Composita	I-140
Orthoceras	II-229	Athyris sp.	I-130
arkonensis, Gennaecrinus	I-79	Athyris (or Cleithyridina) sp. C	I-129
Pleurotomaria	II-62	atlantica, Camarotoechia	I-132
armanda, Finkelnburgia	I-150	Maclurea	II-40
Orthis	I-171	atlanticus, Archaeocyathus	I-13
armatus, Bathyrurus	III-6	Ecculiomphalus	II-17
Eodiscus	III-16	Harpides	III-61
Plethometopus	III-6	Pterygotus	III-88
Plethopeltis	III-6	Atrypa sp. J, K, L, M	I-130
Armenoceras sp.	II-190,191	atsina, Ostrea	II-149
armourensis, Pycnoidocyathus	I-18	attenuata, Eunella	I-149
Arnioceras sp. indet.	II-270	Modiomorpha	II-138

Palaeoneilo	II-151
Pterotheca	II-71
attenuatum, Aphetoceras	II-219
attenuatus, Liromytilus	II-138
atticus, Orthoceras	II-229
Oxfordoceras?	II-229
attleborensis, Dipharus	III-14
auctus, Hoplotropites	II-296
aucellarum, Entolium	II-113
augusta, Metoptoma	II-45
augustina, Murchisonia	II-48
Aulopora sp. A	I-48
aurelia, Gaspesia	
Orthis	I-171
auriculata, Öpikina	I-168
aurore, Aporthophyla	I-203
Strophomena	I-203
Avaoceras sp.	II-241
avonensis, Diodoceras	II-206
Lophophyllum	I-65
Productus	I-182
Spirorbis	III-137
avunculus, Penthetria	III-126
avus, Penthetria	III-126
Plecia	III-126, 130
aylardi, Paratrachyceras	II-318
aylmerense, Modiolodon	II-132
baculus, Cylindroteuthis	II-262
baddeckensis, Productella	I-181
baentschiana, Leaia	III-91
baffinense, Cyrtogomphoceras	II-203
Lambeoceras	II-218
Bailiaspis sp.	III-6
Bailiella sp.	III-6
bairdi, Phalacroma	III-27
Bairdia sp.	III-94
bairdioides, Candona	III-97
balteatum, Orthoceras	II-230
Spyroceras	II-230
balthica, Macoma	II-130
balthica var. guelphica, Leperditia	III-104
bandifer, Bathyrurus (Raymondites)	III-43
banffense, Clisiophyllum	I-62
Lithostrotion	I-64
banffensis, Aorocrinus	I-74
Camarotoechia	I-132
Ivoceras	II-216
Pelecocrinus	I-84
Rhynchopora	I-193
Spirifer	I-198
barabini var. inflatiformis, Inoceramus	II-121
barabini var. magniumbonatus, Inoceramus	II-121
barathrota, Teallicaris	III-118
barbara, Astarte	II-89
barbense, Cyrtorizoceras	II-203
barbensis, Bickmorites	II-193
Geisonocera	II-212
barkleyensis, Odostomia (Evalea)	II-55
barlowi var. C. definatus, Ciceragnostus	III-9
bamstoni, Ammonites	II-264
barrandei, Amphion	III-36
Cotalagnostus	III-10
Cyrtonybyoceras	II-234
Pseudomera	III-36
barrandi, Basilicus	III-41
Canadocystis	I-69
Malocystites	I-69
Pentamerus	I-176
batesi, Lytoceras	II-307
batheri, Glyptocystites	I-68
Bathyrurus sp.	III-47
battis, Mesonomia	I-171
Orthis	I-171
bayfieldi, Illaenus	III-64
Vanuxemia	II-179
beachi, Gymnotoceras	II-288
bearpawensis, Gaudryina	I-5
Vermeullina	I-7
Xenocephalites	II-338
beatii, Lecanites	II-304
beatrice, Lophospira	II-36
beaumontensis, Eriella	III-100
beauportense, Orthoceras	II-230
Spyroceras	II-230
bebryx, Chasmops?	III-51
beckeri, Ildraites	III-135
becki, Orthoceras	II-230
Protocycloceras (?)	II-230
beecheri, Echinocaris	III-115
beechhillensis, Rafinesquina	I-185
Pteronitella (?)	II-167
beedii, Bucanopsis	II-10
Protoniella	I-183
Belemnites sp. undet.	II-262
bella, Crania	I-141
Fenestella	I-114
Guhsania	II-287
Ophileta?	II-56
Orbiculoidea	I-141
bellarugosa, Glyptorthis	I-150
bellatulum, Kionoceras	II-230
Orthoceras	II-230
Richardsonoceras	II-250

- Bellefontia* (?) sp. III-47
Bellerophon sp. II-9
bellevillensis, *Heterocrinus* I-81
belli, *Centropleura* III-8
 Chonophyllum I-36
 Diaphroceras II-205
 Dikelocephalus III-12
 Erisopsis III-90
 Euestheria III-90
 Gonionotites II-299
 Juvavites (*Gonionotites*) II-299
 Lemuroceras II-305
 Levisoceras II-202
 Lingula I-155
 Loganellus III-12, 14
 Lophospira II-36
 Obolus I-155
 Palaeoglossa I-155
 Subarthoplites II-305
 Tealliocaris III-118
 Triarthrus III-83
bellicincta, *Hormotoma* II-31, 32
bellicinctum, *Endoceras* II-208
bellicinctus, *Billingsites* II-193
bellilineata, *Pterinea* II-166
bellimarginatus, *Serrodiscus* III-31
bellistriata, *Cypricardella* II-105
bellistriatus, *Camptonectes* II-94
beloitense, *Actinoceras* II-185
bellula, *Cosmogoniophora* II-100, 115
 Cyclonema II-13
 Cyphaspis III-55
 Estheria III-90
 Goniophora II-115
 Helopora I-116
 Isochilina III-103
bellula var. *elongata*,
 Cosmogoniophora II-100
bellulus, *Cryptolithus* III-54
 Mesopalaeaster I-92
 Petraster I-92
Beloitoceras sp. II-193
Beltella (?) sp. III-47
bennetti, *Hoploparia* III-116
 Paradoxides III-24
benoratus, *Eobronteus* III-58
beudanti, *Haploceras* II-290
beyrichi var. *Crickmayi*, *Cassianella* II-95
bicineta, *Valvata* II-81
biclavata var. *westonensis*, *Arthraria* III-135
bicurvata pronoides, *Prioniodina* III-140
bidorsata, *Tetranota* II-79
bifidus, *Graptolithus* I-101
 Microcyclus I-53
biforata, *Platystrophia* I-178
biformata, *Steblotrypa* I-126
bifurcatum, *Pleurectinium* III-28
biggsbyi, *Actinoceras* II-185, 186
 Cyclaster I-88
 Edrioaster I-88
 Graptolithus I-101
 Orthoceras II-230
bilateralis, *Goniotrypa* I-115
bilix var. *conicum*, *Cyclonema* II-13
billhookensis, *Haidaia* II-119
billingsana, *Murchisonia* II-49
billingsi, *Achatella* III-35
 Actinoceras II-230
 Adamsoceras II-227
 Bonnia III-7
 Bumastus III-48
 Carneyella I-89
 Cyclocystoides I-88
 Cyrtoceras II-198
 Ectocyrtoceras II-226
 Hemicystites (*Agelacrinus*) I-89
 Hyalithes II-343
 Lebetodiscus I-89
 Maelonoceras II-245
 Meristina I-162
 Monticulipora I-119
 Orthis I-171
 Oxfordoceras II-237
 Periglyptocrinus I-85
 Pseudomera III-77
 Pterygometopus III-78
 Ptychoparella III-29
 Salpingostoma II-73
 Steliella I-10
 Trimerella I-212
 Zitteloceras II-198, 259
billingsi symmetrica, *Cyrtina* I-142
billingsiana, *Lingula* I-155
 Lingulella I-155
bilobata, *Fieldaspis* III-16
bilobatus var. *corrugatus*, *Sinuities* II-74
biltmorensis, *Aechminella* III-93
bimesiomata, *Camarotoechia* I-133
binodatus, *Pachydiscus* II-314
binodosus, *Hyperagnostus* III-63
biomatus, *Juvavites* II-299
 Unio II-177
 Unio (*Elliptio*) II-177
bipartita, *Spathiocaris* III-118
bisulcata, *Ctenopyge* III-11
 Cyclospira I-141
 Parabolinella III-75
bisulcatum, *Coroniceras* II-277

bisulcatus, Ctenichnites	III-142
Vermilionites	III-84
bituberculatus, Bathyrurus	III-43
Lloydia	III-43
bituminis, Lioplacodes	II-34
bivittata, Murchisonia	III-49
blackstonensis, Cyclestherioides	III-89
blainvillei, Strophomena	I-203
blainvilli, Leptostrophia	I-203
blairmorensis, Oxytoma	II-150
Plagiostoma	II-159
blomstrandii, Arctoceras	II-269
Blothrocrinus sp.	I-75
blumenbachi, Euchasma	II-98
blumenbachia, Euchasma	II-114
blumenbachii, Conocardium	II-98
boccar, Glossopleura	III-15
bococki, Juvavites	II-299
Malayites	II-299, 308
bodegae, Fanninoceras	II-283
bompasi, Prismaticophyllum	I-56
Bonnia sp.	III-8
bordenensis, Ermyastacus	III-115
boreale, Cyclendoceras	II-197
Otoceras	II-314
Protophragmoceras (?)	II-244
Salpingostoma	II-73
borealis, Anakashmirites	II-267
Archaeocyathus	I-13
Billingsites	II-193
Byssonychia	II-93
Characterocera	II-196
Cranocephalites	II-277
Ehmania	III-15
Goniobasis	II-23
Jovites	II-299
Jujuyaspis	III-68
Leptodesma	II-126
Maclurites	II-43
Melocrinus	I-83
Meteoraspis	III-21
Mimella	I-172
Modiolopsis	II-133
Orthis	I-172
Panope	II-152
Protocardia	II-163
Schloenbachia	II-327
Scutellum	III-79
Spiriferina	I-200
borealis var. postdeclivis,	
Modiolopsis	II-131
boreas, 'Hungarites'	II-296
Pseudomonotis	II-164
bosnensis, Jovites	II-299
boylei, Eurypterus	III-87
Tylopterella	III-87
Tylopterus	III-87
boynensis, Heterostomella	I-6
bozemanensis, Dichocrinus	I-78
brachyopisthus, Plesielliptio	II-159
Bracon sp.	III-122
brannani, Pseudoschloenbachia	II-324
brasdorensis, Eurypterus (Anthra-	
conectes)	III-87
brazeauensis, Decadocrinus	I-77
Sunwaptacrinus	I-87
brazierianus, Gigantoproductus	I-150
bretonensis, Gutschickia	III-101
Ptychoparia	III-30
Schistaspis	III-120
Solenopleura	III-31
brevantica, Modiolopsis	II-133
brevicameratum, Ormoceras	II-227
brevidiscoideum, Armenoceras	II-189
brevidomum, Diestoceras	II-205
brevifrons, Pterocephalia	III-29
Ptychopleura	III-30
brevipes, Penthetria	III-127
breviradiatum, Cyrtorizoceras	II-204
brevirostris, Perissolax	II-58
breviplicata, Camerella	I-135
brevis, Clidophorus	II-96
Stricklandia	I-201
Stricklandinia	I-201, 202
brevispicata, Symphysurina	
(Symphysuroides)	III-81
brevispira, Eunema	II-19
Gyronema	II-26
breviuscula, Cyrtodonta	II-107
brewerii, Ammonites	II-264
brewsteri, Rhodocrinites	I-86
bridgei, Sphaerexochus	III-80
briseis, Lingula	I-155
brocchii, Juvavites (Anatomites)	II-299
brocki, Helicotoma	II-27
broeggeri, Callavia	III-8
bronni, Aucella	II-90
brontes, Orthoceras	II-230
brookei, Entomis	III-100
brookfieldensis, Crania	I-141
brooksi, Cadoceras	II-274
browni, Dinorthis	I-145
Epiculites	II-297, 298
Isculites	II-297, 298
brucense, Cycloceras	II-230
brucensis, Orthoceras	II-230
bryonoides, Graptolithus	I-101
Bucania sp.	II-10

Bucanopsis sp. II-10
buckhami, *Pachydiscus* II-314
bucklandi, *Sactoceras* II-231
bucklandii, *Orthoceras* II-231
buckmani, *Buckmaniceras* II-273
buddhaicus, *Parajuvavites* II-317
bufonis, 'Hungarites' II-296
bulbosa, *Cyphotrypa* I-125
 Stenopora I-125
bulbosus, *Ancyrocrinus* I-74
bullata, *Monticulipora* I-119
bullatum var. *pictoense*, *Orthoceras* II-231
burgessi, *Anthomyia* III-121
burlingi, *Himavatites* II-294
 Pecten II-154
 Pseudozaphrentoides I-66
 Syringopora I-33
burtini, *Stringocephalus* I-203
butleri, *Juvavites* (*Malayites*) II-300
 Malayites II-300,308
buttsi, *Triodopsis* II-79
Bythocypris? sp. III-97

caamoni, *Stephanoceras* II-331
caamanoi, *Stephanoceras* II-331
cabotensis, *Rhynchotreta* I-195
Cactocrinus sp. I-75
cadmus, *Orthoceras* II-231
Cadoceras sp. *indet.* II-274
cadominensis, *Gryphaea* II-118
cadottensis, *Inoceramus* II-121
cadottensis var. *altifluminis*,
 Inoceramus II-121
caduca, *Cavellina* III-99
caduceus, *Isograptus* I-105
caduceus armatus, *Isograptus* I-105
caduceus gracilis, *Isograptus* I-105
cadwalladerensis, *Pecten* II-154
caeca, *Leperditia* III-105
caecigena, *Leperditia* III-105
caecistriata, *Holopea* II-28
caespitosum, *Cyathophyllum* I-49
 Diphyphyllum I-37
cairnesi, *Myophoria* II-141
 Plecia III-130
calamitoides, *Pinna* II-158
calcifera, *Camarella* I-135
 Clarkella I-135
 Fusispira II-77
 Pleurotomaria II-62
 Ribeiria (*Ribeirina*) III-134
 Subulites II-77
 Syntrophia I-135

calciferum, *Litoceras* II-223
calciferus, *Nautilus* II-223
 Receptaculites III-144
calcula, *Haplophragmoides* I-5
calderi, *Calyptaulax* III-49
 Dinorthis I-145
 Metaconularia II-343
 Rafinesquina I-185
caleyi, *Hallopora* I-115
calhouni, *Oxoplecia* I-176
calicina, *Columnaria* I-25
callazonensis, *Monotis* II-139
callicephalus, *Calliops* III-48
callosa, *Anchura* II-7
Calymene sp. *indet.* III-49
Calyptaulax sp. III-49
calyx, *Pleurotomaria* II-62
Camarotoechia sp. I-134
Cambrocyathus sp. I-15
camerata, *Rafinesquina* I-186
Cameroceras sp. II-194
cameroni, *Phragmoceras* (?) II-245
campbelli, *Nautilus* II-310
Camptonectes sp. II-94
camselli, *Disphyllum* [*Synaptophyllum*] I-51
 Micropyrgus II-47
 Oxytoma II-150
 "Synaptophyllum" I-58
canadense, *Actinodictyon* I-20
 Allopiloceras II-245
 Ascoceras II-191
 Cardioceras II-275
 Chonophyllum I-44
 Dictyonema I-97
 Discoceras II-207
 Gyroceras II-214
 Heliophyllum I-52
 Hindeoceras II-214
 Loganoceras? II-201
 Manitoulinoceras (?) II-201
 Orthoceras II-231
 Paractinoceras II-251
 Phragmoceras II-244
 Piloceras II-245
 Psiloceras II-324
 Ptychophyllum I-44
 Sactoceras II-251
 Stereotoceras II-255
 Trachyceras II-334
 Trundleoceras II-245
 Tryblidium II-5
canadensis, *Actinosepia* II-261
 Agnostus III-3

Apatokephalus	III-38	Linuparus	III-116
Amphilichas	III-71	Longobardites	II-306
Amphion	III-36	Loricula	III-113
Amplexopora	I-110	Margulinula	I-2
Anomalocaris	III-133	Melocrinus	I-83
Aparchites	III-93	Megalodon	II-131
Apiocystites	I-68	Megalomus	II-132
Arachnocrinus	I-74	Microcyclus	I-53
Arctosirenites	II-269	Molleritia	III-108
Asaphellus (?)	III-39	Mytilarca	II-143
Asmusia	III-90	Nemodon	II-144
Azygograptus	I-94	Neobulimina	I-6
Bellerophon	II-8	Obolellina	I-167
Billingsites	II-191	Obolus	I-167,168
Calapoecia	I-24	Ogygites	III-74
Camdenidea	III-97	Olenikites	II-313
Capulus	II-5	Oocerina	II-227
Chancia	III-8	Peltura	III-75
Chiton	II-11	Penthetria	III-127
Chonetes	I-138	Platystrophia	I-178
Codaster	I-71	Plecia	III-127,130
Cornyotrypa	I-125	Pleurotomaria	II-62
Cyrtodonta	II-107	Pliomerops	III-36,76
Daleiella?	III-99	Podocratus	III-116
Dawsonites	II-334	Porambonites	
Daxatina (= Dawsonites)	II-279	(Isorhynchus)	I-181
Dictyonema	I-105	Priscochiton	II-11
Didymograptus	I-99	Pseudagnostus	III-3
Dinobolus	I-167	Pseudosphaerexochus	III-80
Distichites	II-282	Pteroleaia	III-92
Dolatocrinus	I-78	Ptilodictya	I-123
Dunderbergia	III-15	Pycnactis	I-44
Ecculiomphalus	II-17	Receptaculites	III-142
Ectenocrinus	I-81	Remopleurides	III-78
Estheria	III-90	Salpingostoma	II-8
Favosites	I-115	Schizotreta	I-196
Fistulipora	I-115	Sowteria	II-170
Gastrolites	II-285,295	Spathognathodus	III-141
Gaudryina	I-4,5	Sphaerexochus	III-80
Grammysia	II-117	Stomatopora	I-125
Haplograptus	I-105	Stricklandia	I-201
Hederella	I-116	Stricklandinia	I-201,202
Heterocrinus	I-81	Strophomena	I-204
Himavatites	II-294	Subulites	II-77
Hoploparia (?)	III-116	Syringocyathus	I-18
Hoplites	II-295	Thracia	II-174
Huronia	II-231	Triograptus	I-109
Inocaulis	I-105	Vanuxemia	II-180
Inoceramus	II-121	Verneuillana	I-7
Ischadites	III-142	Wasatchites	II-337
Juvenites	II-303	canadensis anticostiensis, Calapoecia	I-24
Kanastephanus	II-303	canadensis insignis, Molleritia	III-108
Leptodomus	II-127	canadensis var. ampla, Physa	II-59
Lichas	III-71		

canadensis var. josephiana, Leperditia	III-105	Fanninoceras	II-331
canadensis var. labrosa, Leperditia ..	III-105	Spiroceras	II-331
canadensis var. louckiana, Leperditia	III-105	carlottensis, Ammonites	II-264
canadensis var. nana, Leperditia ...	III-105	Astarte	II-90
canadensis var. obtusiformis, Tentaculites	II-344	Badiotites	II-272
canadensis var. pauquettiana, Leperditia	III-105	Nautilus (Cymatoceras) .	II-310
canadensis var. parvaturris, Physa ...	II-59	Pecten	II-154
canadensis var. tenuis, Physa	II-59	Pleuromya (?)	II-159
canadiana, Aucella	II-90	Turrilites	II-331,335
canaliculatum var. consimilis, Orthodesma	II-147	carlottina, Rafinesquina	I-186
cancellata, Pterinea	II-166	carri, (Blattoidea)	III-120
cancellatus, Sinuites	II-74	cartieri, Catazyga	I-137
cancellatus var. angularis, Sinuites ...	II-74	cartierense, Beloitoceras	II-192
cancellatus var. liratus, Sinuites	II-74	cascadense, Leiorhynchus	I-153
candelabrum, Calhounoceras	II-194	Lophophyllum	I-65
candidus, Proptychites	II-322	cascadensis, Aucella	II-90
canna, Plagioglypta	II-3	Rhipidomella	I-190
cannonensis, Monticulipora	I-119	Rhynchopora	I-193
cansoensis, Lynceites	III-92	Spirifer	I-198
capax, Bathyrurus	III-7	cassa, Amplexi-Zaphrentis	I-60
Paleofavosites	I-30	cassedayi, Eleutherocrinus	I-71
Platycolpus	III-7,27	cassiarensis, Coscinocyathus	I-15
caperatus, Spirorbis	III-137	castorensis, Echinocaris	III-115
capillaris, Thamnograptus	I-109	cataline, Ectocycloceras	II-231
capitalis, Perischoclonus	III-75	Orthoceras	II-231
caplanensis, Cyrtodonta	II-107	catamorpha, Aucella	II-90
Encrinurus	III-57	cataractensis, Whitfieldella	I-214
cara, Zygopleura	II-84	catenatum, Disphyllum	I-51
carbonaria, Sansabella	III-111	catenularia, Halysites	I-40
carbonarius var. arenarius, Euphemus .	II-21	catenularia feildeni, Halysites	I-40
carchariaedens, Blastoidocrinus	I-71	catenularia micropora, Halysites	I-40
Carcinosoma? sp.	III-86	catenularia microporus, Halysites	I-40
Cardioceras (Scarburgiceras?) sp. indet.	II-275	catenularia nitida, Halysites	I-40
cardioceratanum, Parallelodon	II-153	catenularia quebecensis, Halysites ...	I-27
carinata, Condylopyge	III-9	catharina, Murchisonia	II-49
Goniophora	II-115	cato, Ectocycloceras	II-231
Helcionella?	II-26	Orthoceras	II-231
carinatus, Cyrtolites	II-15	caudafimbriata, Teallicaris	III-118
Tropinuculites	II-176	caudatus, Bathyrurus	III-43
carinifera, Martesia	II-131	cauriniensis, Myoconcha	II-141
carletona, Dinorthis	I-145	caurinus, Prionotropis	II-322
Pionorthis	I-177	caurinum, Paratrachyceras	II-319
carletonense, Allumettoceras	II-187	Pterotoceras	II-324,325
Murrayoceras	II-222	caurinum var. arctum, Pteroceras ...	II-325
Plectoceras	II-246	caurinum var. elegantulum, Pteroceras	II-325
Rizoceras	II-250	caurinus, Juvavites (Griesbachites) ..	II-300
carleyana, Diaphorostoma	II-16	Prionotropis	II-322
carlottense, Acrochordiceras (?)	II-263	Rhytophorus?	II-73
Aulacoceras	II-261	caurus, Hexagonaria	I-57
		'Hungarites'	II-296
		cawdori, Nuculites	II-145
		cawdori var. elongatus, Nuculites	II-145
		cawdori var. erectus, Nuculites	II-145
		cecrops, Hyolithes	II-342

celer, Fieldaspis	III-16	cincta, Crania	I-141
cellulosum, Tetradium	I-34	Phillipsastraea	I-56
celticus, Distichites	II-281	cinctum, Pachyphyllum	I-55
cenomana, Placopsilina	I-3	cingulata, Obolella (Kurtorgina)	I-166
centrale, Anisomyon	II-7	Palaeacmaea (?)	II-4
centronatus, Spirifer	I-18	cingulata var. gorenensis, Ctenodonta	II-101
centronatus minnewankensis, Spirifer ..	I-198	cingulatum, Loxonema	II-38
centropyge, Holasaphus	III-17	cingulatus, Amplexus	I-35
Ceratiocaris sp.	III-114	cingulosa, Zaphrentis	I-59
Ceraurus sp.	III-51	circe, Charionella	I-137
cercops, Plaguira	III-27	Discina	I-147
ceres, Leptaena	I-204	Obolella	I-166
Strophomena	I-204	Straparollina	II-76
cerithioides, Daidia	II-19	Straparollus	II-76
Eunema	II-19	circinatus, Ecculiomphalus	II-17
cervicornis, Favosites	I-51	cirrusi, Rhodocrinites	I-86
Thamnopora	I-58	citum, Goldringia	II-212
chakii, Gryphaea	II-118	Cladopora sp.	I-48
chaleurense, Orthoceras	II-231	clarai, Claraia	II-96
chaleurense, Dizygopleura	III-99	Clarella sp.	III-9
Tubulibairdia	III-112	clarkeanum, Zitteloceras	II-259
chamblienne, Spyroceras	II-253	clarkei, Ontario	II-146
chambliensis, Ctenodonta	II-101	Pachydomella?	III-108
Pholadomorpha	II-157	clarki, Tetradium	I-34
Proetus	III-76	clarksvillensis, Platystrophia	I-178
champlainensis, Platystrophia	I-178	clarus, Ajacicyathus	I-12
champlaini, Meristella	I-128	clathratulum, Eunema	II-19
chapmani, Carneyella	I-89	clavata, Dekayella	I-112
Hemicystites (Lebetodiscus) ..	I-89	clavatus, Gonionotites	II-287,300
Lebetodiscus	I-89	Guembelites	II-287
Palaeocrinus	I-70	Juvavites	II-300
Palaeocystites	I-70	clavifrons, Illaenus	III-65
Charactophyllum sp.	I-48	clavigera, Ctenobolbina	III-79
charon, Bellerophon	II-8	Clavulina? sp.	I-4
Tetranota	II-8	Cleiothyridina? sp.	I-129
charybdis, Thisbites	II-333	Clelandia (?) sp.	III-53
charybdis var. custi, Thisbites	II-333	clementina, Scalaria	II-74
charybdis var. ireneanus, Thisbites ..	II-333	clitus, Cyrtoceras	II-198
chemungensis, Shizodus	II-170	Grimbyceras	II-198
cheveriensis, Shizodus	II-170	clivusbestiola, Aechminella	III-93
chicoensis, Baculites	II-272	clochense, Beloitoceras	II-245
chidlensis, Labrinthites	I-41	clochensis, Archinacella	II-3
chidleyense, Endoceras	II-208	Cyrtodonta	II-108
Eurystomites	II-211	Lingula	I-156
childerhosei, Lima (Limatula)	II-127	Lingulella	I-156
chiwanae, Pecten	II-154	Pterotheca	II-71
chlöe, Athyris	I-128	clusia, Athyris	I-128
Retzia	I-128	Chancia?	III-9
Choristoceras? sp.	II-276	clusus, Geragnostus	III-59
chromatica, Obolella	I-166	cnopus, Zacanthoides	III-34
cicer, Ciceragnostus	III-9	coalescens, Camarotoechia	I-133
ciceroides, Ptychagnostus	III-29	coarctum, Allopiloceras	II-245
ciliatum, Clinocardium	II-97	Trundleoceras	II-245
ciliatus, Glossograptus	I-100	cobblestonensis, Camarotoechia	I-133

cobourgensis, Lingula	I-156
Probillingsites	II-248
cogmagumensis, Buxtonia	I-132
colemanensis, Athabascacrinus	I-75
collieana, Bellefontia (?)	III-47
colligatum, Crepidophyllum	I-49
collinsi, Lawrenceoceras	II-218
collinsii, Oncoceras	II-225
collipiana, Pteria?	II-165
colnetti, Defonticeras	II-279
Colpomya? sp.	II-98
columbia, Dinorthis	I-145
columbae, Aranea	III-122
columbiana, Anomia	II-88
Coelidea	III-123
Loftusia	I-1
Myophoria	II-141
Neoschwagerina	I-1
Odostomia (Evalea)	II-55
Poulsenia	III-28
Syringopora	I-33
columbianum, Bostrychoceras	II-293
Gymnoceras	II-288
Phylloceras	II-320
columbianus, Cambrocyathus	I-14
Didymograptus	I-99
Himavatites	II-294
Pycnoidocyathus	I-14,18
Styrites	II-333
Tropiceltites	II-333
columbicum, Waagenophyllum	I-66
columbiensis, Crepicephalus	III-11
colvillensis, Syringocnema	I-18
commune, Dactyloceras	II-278
Ophiceras	II-313
communis, Cyclonema	II-13
Hyalolithes	II-342
Solenopleura	III-31
compacta, Alvania	II-6
Modiolopsis	II-133
Ophileta	II-56
Whiteavesia?	II-181
compactile, Pseudolioceras	II-323
compactoides, Murchisonia (Stegocoelia)	II-49
compactum, Platyceras	II-60
compactus, Halysites	I-41
Subulites	II-77
complanata, Whitella	II-182
complanata moniquensis, Whitella	II-182
complanum, Actinoceras	II-186
complexa, Arcturia	I-29
compressa, Ctenodonta	II-101
Lima	II-127
Modiomorpha	II-138
compressus, Igoceras	II-216
Megalomus	II-132
Phragmolites	II-59
compressus var. ornatus, Baculites	II-272
compta, Heterophrentis	I-52
concava, Helopora	I-116
Iddingsia	III-18
concentrica, Buchia	II-93
Jenningsina	III-104
Lichenalia	I-118
concentrica var. chamblensis, Modiolopsis	II-133
concentrica var. erringtoni, Buchia	II-93
concentricus, "Amphissites" (?)	III-93
Harpides	III-61
Nuculites	II-145
concentricus var. subequilatus, Nuculites	II-145
concentricus var. subovatus, Nuculites	II-146
concinna, Anodontopsis	II-87
Kaniniella	III-19
concinnus, Miccocephalites	II-309
concinna, Leperditia	III-105
concordensis huronensis, Strophomena	I-204
concretus, Juvavites	II-300
Condylopyge sp. A, B.	III-9
conferta, Labechia	I-22
confiniensis, Corbula	II-99
confluens, Ceraurinus	III-49
Multisolenia	I-42
congregata, Omphyma	I-42
conica, Clathrospira	II-12
Scenella	II-4
conicum, Platyceras (Orthonychia)	II-60
conicus, Bathyrus	III-44
Hybocrinus	I-81
Hystricurus	III-44
Porocrinus	I-85
conifrons, Illaenus	III-65
Thaleops	III-65
conjugans, Cupulocrinus	I-77
Dendrocrinus	I-77
conoidea, Prasopora	I-121
conoideus, Discosorus	II-207
conradi, Heteroceras	II-293
Illaenus	III-65
Viviparus	II-82
conradiana, Astarte	II-89
conradiana var. tuscana, Astarte	II-89
consanguina, Echinocaris	III-115
conservatrix, Dalmanella	I-143

consimilis, Goniophora	II-115,116	cornwallisensis, Ceratiocaris	III-114
Illaenus	III-65	corpulentus, Episculites	II-298
consobrina, Herrmannina	III-102	Inoceramus	II-121
consobrinus, Illaenus	III-65	Isculites	II-298
constellata, Stromatopora	I-23	corrugata, Orthonota	II-148
constricta, Murchisonia	II-49	corrugatum, Dresseroceras	II-208
constrictum, Calliostoma	II-10	corrugatus, Capulus	II-11
Oncoceras	II-225	corticata, Zaphrentis	I-59
constrictus, Didymograptus	I-101	Coryellina, sp.	III-99
Graptolithus	I-101	corydon, Cyrtoceras	II-198
consuetus, Harpes	III-60	Grimbyoceras	II-198
Unio	II-177	Coscinocyathus sp.	I-16
contracta, Ctenodonta	II-102	Cosmetocrinus sp.	I-76
Conularia? sp.	II-341	costalis, Monomuchites	II-222
convexa, Dunderbergia		costata, Camerella	I-135
(Megadunderbergia)	III-15	Orthonychia	II-57
Fusispira	II-22	costatula, Trigonina	II-175
Michelinia	I-53	costatus, Sirenites	II-328
Paenebeltella	III-74	costula, Fardenia	I-149
Richardsonella	III-12,13	costulata, Ilionia (?)	II-120
Syntrophia	I-209	costulatum, Ascoceras	II-191
convexus, Amphion	III-36	Billingsites	II-191
Dolichometopus?	III-56	Cotteranum, Loxonema	II-38
Schistometopus	III-31	coulthardi, Inoceramus	II-121
cooperi, Anisoceras	II-267	covingtonensis, Isotelus	III-41
Diestoceras	II-205	cowichanensis, Isastrea	I-67
Pygocephalus	III-117	coxi, Trochonema	II-80
copei, Physa	II-59	Cradeocrinus sp.	I-76
copei var. canadensis, Physa	II-59	Cranocephalites? sp. indet.	II-277
coprolithiforme, Ammobaculites	I-4	crassa, Goniophora	II-116
corallina, Nodosaria	I-3	Leptotrypa	I-118
corax, Bienvillia	III-12	Lingula	I-156
Dikelocephalus?	III-12	Steliella	I-10
Corbicula? sp.	II-99	Veniella	II-181
cordai, Bathyrurus	III-44	crassa beechhillensis, Whitfieldella ..	I-214
cordatus, Clisocolus	II-97	crassibasalis, Pachyocrinus	I-89
cordiforme, Manticoceras	II-308	crassicostatum, Warrenoceras?	II-336
cordiformis, Amecystis	I-60	crassicrenulatum, Hemiphragma	I-117
Cyrtodonta	II-108	crassimarginata, Proetus	
corinna, Orthis	I-172	(Crassiproetus)	III-76
corlissensis, Symphysurina		crassisegmentatus, Megadiscosorus ..	II-221
(Symphysurina)	III-81	crassisegmentatus var. brevior,	
corneuilliana, Pteria (Oxytoma)	II-165	Megadiscosorus	II-221
corniculum, Streptelasma	I-32	crassisiphonatum, Endoceras	II-209
cornuta, Aulopora	I-47	Nartheoceras	II-209
Gypidula	I-150	crassum, Cadoceras	II-274
cornutus, Neogastroplites	II-273,311	Calathium	I-8
cornutum, Buchiceras?	II-273	Goliathiceras	II-286
Neogastroplites	II-273	Ormoceras	II-227
cornutum var. arisaigensis,		crassus, Botryocrinus	I-81
Diaphorostoma	II-16	Coenites	I-36
cornuum, Orthoceras	II-232	Homocrinus	I-81
cornwallensis, Ormoceras	II-227	Juvenites	II-303
cornwallia, Cyrtodonta (?)	II-108	Maclurites	II-43

crateriformis, Eucraterellina	III-100	curtula, Plecia	III-126,130
crenatus, Balanus	III-113	curtum, Lingulasma	I-161
crenocostatus, Ammonites	II-264	curtus, Eobronteus	III-58
crenulata, Maclurea	II-40	curva, Aulopora	I-62
crenulatus, Mycrocyclus	I-53	curvatus, Camptonectes	II-94
Straparollus	II-76	curvimarginata, Pinna	II-158
cretacea, Bela	II-8	curvistriata, Thlipsurella	III-112
Cornuspira	I-4	cushingi, Cyclonema	II-13
crevieri, Pleurotomaria	II-63	cushmani, Loxostomum	I-6
crickmayi, Baculites	II-272	cuspidata, Triplecia	I-213
Clathrodictyon	I-21	cuspidatum, Periploma	II-156
Kanastephanus	II-303	custi, Juvavites	II-300
Viviparus	II-82	Malayites	II-300
Zemistephanus	II-339	Thisbites	II-333,334
cristata, Richardsonella	III-12	cyane, Lingula	I-156
cristatum, Dictyonema	I-97	Obolus	I-156
cristatus, Dikelocephalus	III-12	cyathiforme, Dictyonema	I-97
Favosites	I-38	Trachyum	I-11
crookfordi, Turnus (Goniochasma)	II-176	Cyathocrinites sp.	I-77
crocus, Orthoceras	II-238	cybele, Bathyrurus	III-44
crucifer, Graptolithus	I-101	Petigurus	III-44
Tetragraptus	I-101	cybeleformis, Encrinurus	III-57
Crustacea incertae sedis	III-118	Cybeloides sp.	III-54
cryptata, Pleurotomaria	II-63	Cyclonema sp.	II-15
Spirorapha	II-63	cycloptera, Spirifer	I-199
Cryptolithus sp.	III-54	Spirifera	I-199
Cucullaea sp.	II-104	cyclostoma, Pleurotomaria	II-63
cumberlandensis, Brodioptera	III-120	Strophostylus	II-76
cummingsi, Pterygotus	III-88	cyclostomus, Gyraulus	II-25
cumshewaense, Haploceras	II-290	cygnipes, Oxytoma	II-150
cumshewensis, Arca (Nemodon)	II-117	cylindraceus, Hamites	II-289
Parallelodon		Trochactaeon	II-79
(Nanonavis)	II-117	cylindratum, Spyroceras	II-253,254
Cuneamya sp.	II-104	cylindrica, Bythocypris	III-97
cuneata, Maclurina	II-42	Keithiella	III-5,19
Tancrediopsis	II-102	Palaecoma	I-91
cuneatum, Selkirkoceras	II-187	cylindricum, Tetradium	I-34
cupressensis, Pholadomya	II-157	cylindricus, Arionellus	III-5
Tellina	II-173	Catenipora	I-27
Yoldia	II-183	Dendrocrinus	I-77
curionii var. chenekai, Myoconcha	II-141	Eocatenipora	I-27
curionii var. montipetraea,		Hallaster	I-90,91
Myoconcha	II-141	Halysites	I-27
curiosa, Cliospira	II-12	Taeniaster	I-91
Pterinea	II-166	cypressensis, Campeloma	II-10
curiosus, Asaphus?	III-39	Cypricardinia sp.	II-106
Lechthaylus?	III-136	cyrtinaformis, Tenticospirifer	I-209
curta, Clionychia	II-97	Cyrtocerina sp.	II-203
Lingula	I-156	Cyrtodonta sp.	II-111
"Octonaria"	III-108	Cyrtogomphoceras? sp.	II-203
Panopaea	II-152	Cyrtopleurites sp.	II-277
Pteronitella	II-168	Cyrtorizoceras sp.	II-204
curtata, Penthetria	III-127	cystosum, Clathrodictyon	I-21
Plecia	III-127		

cystosum cylindricum,
Clathrodictyon..... I-21

Dactyloceras sp. indet. II-278

dakotensis var. *vancouverensis*,
Serrifusus..... II-74

dalhousiensis, *Eukloedenella* III-101
Strepulites III-112
Zygobeyrichia III-113

Dalmanella sp. I-144

dalmani, *Syringopora* I-45

dalyi, *Dikelocephalus* III-12
Lampsilis II-125

danae, *Euproops* III-85
Fusconaia II-114

danbyi, *Palaeopecten* II-151

danielense, *Spyroceras* II-254
Stromatopora I-23

daphne, *Straparollina* II-75
Straparollus II-76
Subulites II-78

dartae, *Hyalolithes* II-342
Rizoceras(?) II-250

darwini, *Amphicyrtoceras* II-232
Orthoceras II-232

davidis, *Paradoxides* III-24

davidsoni, *Dielasma* I-144
Fenestella I-114
Hesperorthis I-151
Stricklandinia I-202

davidsoni striata, *Stricklandinia* I-202

dawsoni, *Calamophyllia* I-67
Caninia I-62
Chonetes I-138
Chonostrophia I-138
Composita I-140
Desmoceras (*Puzozia*) II-290
Eryma III-115
Euestheria III-90,91
‘*Hungarites*’ II-297
Leptodesma II-126
Malayites II-308
Modiola II-137
Palaeocystites I-70
Parabolina III-23
Parallelidon II-153
Productus (*Linoproductus*)... I-182
Thisbites II-273,334
Trichonta III-133
Trigonia II-175

dawsonianus, *Pugnax* I-183

deansensis, *Metacoscinus* I-17

deansii, *Olcostephanus* (*Astieria*).... II-313

debertianum, *Pseudamusium* II-163

decadactylus, *Platycrinites* I-85

decemplicata, *Plagiorhyncha* I-177

decessa, *Pimpla* III-129

decawensis, *Strophonella* I-209

decipiens, *Leptaena* I-153
Leptellina I-153

decora, *Beyrichia* III-95
Cyclonema II-13

decorata, *Phaneta*(?) II-59

decorosum, *Orthodesma* II-147

decorus, *Helictites* II-292
Paradoxides III-24

decorus var. *obesus*, *Helictites* II-292

decorus var. *transitionis*, *Helictites* . II-292

decrescens, *Cycloceras* II-232
Monomuchites II-232
Orthoceras II-232

decursum, *Fremontoceras* II-211

decussatum, *Conchidium* I-140,141,177

decussatus, *Pentamerus* I-177

definita, *Orbignyella* I-120

deflecta, *Zygospira* I-214

Defonticeras? sp. II-280

defontii, *Defonticeras* II-279

deformis, *Billingsites* II-194

defuncta, *Gerris* III-125

defunctus, *Microphorus* III-126

deiopeia, *Pleurotomaria* II-63

Deiroceras sp..... II-205

dekayi, *Eurypterus* III-87

deleeni, *Beyrichites* II-273

delia, *Eotomaria* II-63
Pleurotomaria II-63

delicatula, *Northorthis* I-165
Orthis I-172
Pelonomia I-172
Rensselaria I-190

delicatulus, *Catenipora* I-27
Halysites I-27

delicatum, *Asklepioceras* II-271

delphiensis, *Manticoceras* II-309

deltoida, *Rafinesquina* I-106
Strophomena I-204

demissa, *Caritodens* II-95
Pterinea (*Caritodens*) II-95,166

demus, *Leptodesma* II-126

denckmanni, *Ozarkodina* III-139

denmanense, *Gaudryceras* II-264,307
Lytoceras
(*Gaudryceras*) II-307

denmanensis, *Cyprina* II-106

densistriata, *Tutcheria* II-177

- densum*, *Disphyllum* [*Synaptophyllum*]... I-51
densus, *Belemnites* II-262
dentatus, *Ceraurus* III-50
denticulatus, *Graptolithus* I-102
 Tetragraptus I-102
dentis, *Aparchites* III-93
dentocanis, *Coscinocyathus* I-15,16
dentoni, *Eoharpes* III-58
deparcum, *Cameroceras* II-232
 Endoceras? II-232
 Orthoceras II-232
deperditia, *Sciara* III-132
depilis, *Prometopia* III-132
depressa, *Gyroidina* I-5
depressiplicata, *Squamularia* I-201
depressum, *Zitteloceras* II-259
depressus, *Alveolites* I-35
 Platydiamesus III-27
desertus, *Harpides?* III-61
desideratum, *Glossoceras* II-212
 Orthoceras II-212
desideratus, *Archaeocrinus* I-74
 Cyrtolites II-16
 Phragmolites II-16
desplacei, *Coeloceras* aff. II-276
desplainense, *Trochoceras* II-257
devinei, *Briscoia?* III-12
 Dikelocephalus III-12
devoniense, *Pachyphyllum* I-55
deweyanus, *Fusconia* II-114
deweyi, *Callista* (*Dosiniopsis*) II-94
Dibunophyllum sp. I-62
dice, *Tritoechia* I-213
dichotoma, *Modiola* (*Brachydontes*) .. II-137
dicksoni, *Lebetodiscus* I-89
dictys, *Cyrtoceras* II-198
 Dyscritoceras II-198
Didymites sp. II-280
dielasmoidea, *Hartella* I-151
Diestoceras sp. II-200,247
diffidens, *Deiroceras* II-232
 Orthoceras II-232
diffluens, *Arachnophyllum* I-35
diffusus, *Dendrograptus* (*Callograptus*) . I-96
digitalis, *Acmaea* II-6
Dikelocephalus pygidium III-14
dilata, *Buchiola* III-93
dilatata, *Penthetria* III-127
 Plecia III-127,130
Dimeropygid cephalon, gen. ind. III-56
diminuta, *Leptaena* I-153
diminutiva, *Yoldia* II-183
diocis, *Cymatocyclus* II-104
Diphyphyllum sp. I-63
diplicata, *Triplecella* I-213
Diplomoceras? sp. II-289
discors, *Poleumita* II-69
Discosorus sp. II-207
Discotropites sp. II-281
disculus, *Tropidodiscus?* II-81
discus, *Microcyclus* I-53
dishinni, 'Pecten'? II-155
dishinni var. *kaska*, 'Pecten'? II-155
disjuncta, *Columnaria*
 (*Cyathophylloides*) I-49
 Ophileta? II-56
disjuncta occidentalis, *Spirifera* I-199
dispanda, *Fenestella* I-111
dispar? *Nerinaea* II-55
disparalis, *Orthis* I-172
dispersa, *Flemingia* II-21
disseptum, *Zaphriphyllum* I-66,67
dissolutus, *Serpulites* III-137
distincta, *Cypricardinia* II-105
 Raphistoma II-72
 Raphistomina II-72
 Stromatoporella I-23
distinctum, *Streptelasma* I-32
distornata, *Lingula* (*Palaeoglossa*)... I-156
divaricata, *Pholadomorpha* II-157
divergens, *Dendrograptus* I-96
 Isoteloides III-68
 Oncograptus I-107
diversicostata, *Trigonia* II-175
divisus, *Glaphurus* III-59
dixianum, *Lingulasma* I-161
docens, *Pleurotomaria* II-63
Dolichometopsis? sp. undet. III-14
dolmagii, *Fanninoceras* II-284
dolosoniensis, *Pinna* II-159
donacina var. *near elongata*,
 Pholadomya II-158
donacina var. *obliquitruncata*,
 Pholadomya II-158
donetti, *Armenoceras* II-189
Dorsoplanites sp. indet. II-282
douglasi, *Dimorphoptychia* II-17
 Unio (*Elliption*) II-177
Douvillinaria sp. I-147
doverensis, *Eukloedenella* III-101
dowlingi, *Aucellina?* II-91
 Corbicula II-99
 Cyrtogomphoceras II-199
Dicranodonta II-112
Inoceramus II-122
Lima II-127
Nucula II-145
Ostrea II-149

Tancredia?	II-173	Ectenonotus sp.	III-57
Tellina	II-173	edax, Oderoceras?	II-233
Teloceras	II-333	Orthoceras	II-233
Unio	II-177	edithae, Juvavites (Anatomites)	II-300
Unio (Pleurobema)	II-177	editum punctatum, Caryomanon	I-9
Winnipegoceras	II-199	edmontonensis, Campeloma	II-11
Yoldia	II-183	edulis, Mytilus	II-143
dowlingi var. silentia, Tancredia?	II-173	egens, Platystrophia	I-178
dowlingii, Gyronema	II-26	egeria, Zaphrentis	I-59
Murchisonia	II-49	egregia, Murchisonia	II-49
drummondense, Clathrodictyon	I-21	egregium, Coelidium	II-49
drummondi, Geisonoceras	II-211,233	eichwaldi, Phillipsia	III-75
Orthoceras	II-233	eiffelensis, Kochaspis	III-19
Drymocrinus sp.	I-79	ekwanense, Ephippiorthoceras	II-233
dryope, Camaratoechia	I-191	Orthoceras	II-233
Eotomaria	II-63	ekwanensis, Bronteus	III-47
Pleurotomaria	II-63	Camaratoechia	I-133
Rhynchonella	I-191	Trimerella	I-212
dryope var. plana, Eotomaria	II-18	Elateridae? sp.	III-124
dubia, Dinorthis	I-145	elatior, Penthetria	III-127
Modiolopsis?	II-133	Plecia	III-127
dubium, Lophiostroma	I-22	electra, Archaeorthis	I-172
Platyschisma?	II-61	Orthis	I-172
dubius, Anthrapalaemon	III-113	elegans, Apsidoceras	II-188
Bathyrurus	III-7	Arctocephalites	II-268
Platycolpus	III-7	Callograptus	I-94
dumalis magna, Hallopora	I-115	Daonella	II-112
dunbari, Meristospira	I-163	Fardenia	I-149
Protopharetra	I-17	Lecanocrinus	I-82
dunveganensis, Inoceramus	II-122	Licanograptus	I-106
Tellina	II-173	Nucleocrinus	I-72
dunveganensis var. mcconnelli,		Pleurocystites	I-70
Inoceramus	II-122	Protaxocrinus	I-82
duplicata, Siphonodella	III-141	Pycnostylus	I-44
durhamensis, Eotomaria	II-18,63	Symphysurina (Symphysuro-	
Monomerella	I-164	ides)	III-82
Pleurotomaria	II-63	elegantula, Platystrophia	I-179
Polytropis	II-69	Pseudolingula	I-103
dux, Kakwiphyllum	I-64	Trachypora	I-59
dyeri, Holospira	II-31	elegantula submedia, Dalmanella	I-143
dysdercus, Isocolus	III-67	elegantulum, Brachyprion	I-131
		Conocardium	II-98
		Dawsonoceras	II-204
		elegantulus, Encrinus	III-57
		Receptaculites?	III-144
earltonensis, Discosorus(?)	II-207	Eleutherokomma sp.	I-148
eatoni, Curtoceras	II-196	elevata, Tretaspis	III-82
ebneri, Discophyllites	II-281	elevatus, Strophostylus(?)	II-77
eccentricum, Vaginoceras (?)	II-258	elkhornensis, Pachydiscus	II-314
Ecculiomphalus sp.	II-18	ellipsoides, Fardenia	I-149
echinatus, Lasiograptus (Hallograptus) I-106		elliptica, Avicula	II-91
echinatus major, Lasdiograptus		Paracyclas	II-153
(Hallograptus)	I-106	elliptica var. occidentalis, Para-	
Echinocaris sp. (Telson)	III-115	cyclas	II-129,153
Echioceras sp. indet.	II-283		

ellipticum, Campophyllum	I-48	erato, Metoptoma	II-45
ellipticus, Loculicyathus	I-17	Tryblidium	II-45
ellisense, Ormoceras	II-228	erectum, Platyceras	II-60
Polygrammoceras	II-246	erectus, Dendrograptus	I-96
ellisensis, Subulites	II-78	Dinobolus	I-145
elli, Defonticeras	II-279	erienne, Heliophyllum	I-52
elongata, Carbonita	III-98	eriphyle, Cyathophyllum	I-37
Eoleaia	III-90	Omphyma	I-37
Fusispira	II-22	erratica, Catazyga	I-137
Honeymania	II-120	Columnaria	I-25
Labradoria	III-10	erro, Thoracoceras	II-256
Lingula	I-156	erugatus, Psiloceras	II-324
Polypora	I-121	erutus, Homothetus	III-120
Stenothecoides	II-5	eryx, Cheirurus	III-51
elongata usheri, Rhynchotreta	I-195	esclavensis, Conularia	II-340
elongatissima, Panope?	II-165	esmondensis borealis, Rafinesquina ...	I-186
Psilomya	II-165	esplanadensis, Spirifer	I-198
elongatum, Bostrychoceras	II-273,293	estella, Archinacella	II-45
Heteroceras	II-293	Metoptoma	II-45
elongatus, Ceraurinus	III-49	Murchisonia	II-49
Goniurus	III-60	eteminicus, Paradoxides	III-24
Homotelus?	III-63	etna, Euconia	II-64
elora, Pleurotomaria	II-64	Pleurotomaria	II-64
Elvinia(?) sp.	III-16	eubule, Metoptoma	II-46
embrunensis, Cuneamya	II-104	eucharis, Parryoceras	II-243
emma, Rhytimya	II-169	eucharis, Helicotoma	II-27
emmonsii, Hypothyridina	I-152	Lasiograptus (Thysano-	
Maclurea	II-41	graptus)	I-108
Enchophora sp.	III-124	Retiograptus	I-108
enclinetabulatum, Ekvasophyllum	I-63	euclides, Kayseraspis(?)	III-69,70
Endoceras sp.	II-210	eudocia, Hesperonomia	I-172
engadinense, Stokesoceras	II-255	Orthis	I-177
engleri, Procerites	II-322	eugenia, Pleurotomaria	II-64
enigmaticus, Macroculites	III-72	Retzia	I-190
enniskilleni cf. derbiensis, Amplexi-		eugeniensis, Dalmanella	I-143
Zaphrentis	I-60	eugeniensis palaeoelegantula,	
enniskilleni cf. enniskilleni,		Dalmanella	I-143
Amplexi-Zaphrentis	I-61	eulimoides, Goniobasis	II-24
ensiformis, Graptolithus	I-102	euodus, Didymograptus	I-99
Retiolites	I-102	Euomphalus (Phanerotinus) sp. undet. .	II-21
ensiformis obtusus, Trigonograptus ..	I-109	Euproops sp.	III-86
eocretacicus, Pachyteuthis	II-262	eurydice, Straparollina	II-76
eos, Dimeropygiella	III-56	Straparollus	II-76
Eoscorpius sp.	III-89	euryone, Cyathophyllum	I-37
Ephippiorthoceras sp.	II-211	Orthis	I-172,173
epidema, Mactra?	II-130	Eurypterid? remains	III-86
epigonum, Epigonoceras	II-283	Eurypterus sp.	III-88
epiphaniense, Probillingsites	II-248	eusebii, Acanthinites	II-263
equanensis, Trimerella	I-212	eva, Lingula	I-157
equidentata, Hindeodella	III-139	Lingulasma	I-157,161
equilateralis?, Aechmina	III-93	Pseudolingula	I-157
equipunctata, Rafinesquina	I-186	evadne, Dalmanella	I-173
equisitus, 'Heraclites' (?)	II-293	Orthis	I-173
Thetidites	II-293	Pomatotrema	I-173

evansi, <i>Olenaspella</i>	III-21,23	<i>faba</i> , <i>Colpomya</i>	II-97
<i>Parabolinella</i> (?)	III-23	<i>fabaeformis</i> , <i>Modiolopsis</i>	II-134
evelinae, <i>Hilboldtina</i>	III-102	<i>faba-pusilla</i> , <i>Colpomya</i>	II-98
exarata, <i>Harpoceras</i>	II-267,291	<i>fabensis</i> , 'Murraia'	II-140
excavata, <i>Haplophragmoides</i>	I-5	<i>fabius</i> , <i>Agnostus</i>	III-35
<i>Prioniodina</i>	III-140	<i>fabulina</i> , <i>Carbonita</i>	III-98
excavatus, <i>Ctenocephalus</i>	III-11	<i>facula</i> , <i>Sceptropora</i>	I-125
excellens, <i>Camarotoechia</i>	I-191	<i>faculensis</i> , <i>Linocrinus</i>	I-82
<i>Phaenopora</i>	I-123	<i>falcatula</i> , <i>Penthetria</i>	III-127
<i>Ptilodictya</i>	I-123	<i>falcicosta</i> , <i>Thomasatia</i>	III-112
<i>Rhynchonella</i>	I-191	<i>fallax</i> subs. <i>P. depressa</i> , <i>Peronopsis</i>	III-26
exigua, <i>Ceratocephala</i>	III-49	<i>fallax</i> var. <i>concinna</i> , <i>Peronopsis</i>	III-26
<i>Cyrtodonta</i>	II-108	<i>falx</i> , <i>Cyrtoceras</i>	II-198
<i>Leperditia</i> (?)	III-105	<i>Richardsonoceras</i>	II-198
<i>Lyellia</i>	I-28	<i>fannini</i> , <i>Fanninoceras</i>	II-284
<i>Phillipsastraea</i>	I-56	<i>farnsworthi</i> , <i>Aphetoceras</i>	II-219
<i>Pustula</i>	I-189	<i>Lituites</i>	II-219
exiguum, <i>Heliophyllum</i>	I-52	<i>fastigiatum</i> , <i>Clathrodiclyon</i>	I-21
<i>Metriophyllum</i> (<i>Aemulophyllum</i>)	I-52	<i>favosus</i> , <i>Favosites</i>	I-26,39
<i>Zaphrentis</i>	I-52	<i>feildeni</i> , <i>Halysites</i>	I-41
exiguus, <i>Heliolites</i>	I-28	<i>felis</i> , <i>Platystrophia</i>	I-179
exile, <i>Elrodoceras</i>	II-208	<i>fenense</i> , <i>Phacelophyllum</i>	I-51
exilis, <i>Amplexus</i>	I-47	<i>fernglenensis</i> , <i>Graphiadactylis</i>	III-101
<i>Batostomella</i>	I-111	<i>ferniensis</i> , <i>Pseudomonotis</i>	II-164
<i>Modiolopsis</i>	II-134	"Turbo"	II-81
eximia, <i>Charactocarina</i>	II-196	<i>ferox</i> , <i>Eurystomites</i>	II-223
eximium, <i>Arachnophyllum</i>	I-45	<i>Nautilus</i>	II-223
eximius, <i>Strombodes</i>	I-45	<i>ferrieri</i> , <i>Gervillia</i>	II-114
expansa, <i>Meristina</i>	I-163	<i>Trigonia</i>	II-175
<i>Pterotheca</i>	II-71	<i>ferum</i> , <i>Orthoceras</i>	II-233
<i>Strophomena</i>	I-204	<i>Spyroceras</i>	II-233
<i>Symphysurina</i> (<i>Symphysuro-</i> <i>ides</i>)	III-82	<i>festinata</i> , <i>Orthisina</i>	I-176
expansum, <i>Geisonoceras</i>	II-212	<i>fibrata</i> , <i>Syringopora</i>	I-45
<i>Salpingostoma</i>	II-73	<i>fibratum</i> , <i>Tetradium</i>	I-34
expansus, <i>Bathurellus</i>	III-41	<i>fibrosa</i> , <i>Pteria</i> (<i>Pseudoptera</i>)	II-165
<i>Hyperbolochilus</i>	III-63	<i>fibrosus</i> , <i>Inoceramus</i>	II-122
explanata, <i>Archinacella</i>	II-4	<i>fidelis</i> , <i>Rhinidictya</i>	I-124
explorator, <i>Cyrtendocarina</i>	II-233	<i>filicinctum</i> , <i>Gyroceras</i>	II-214
<i>Orthoceras</i>	II-233	<i>filicinctus</i> , <i>Ammonites</i>	II-264
exporrecta myrtea, <i>Cyrtia</i>	I-142	<i>Strophostylus</i>	II-77
extans, <i>Bathyrurus</i>	III-44	<i>filiformis</i> , <i>Aulopora</i>	I-48
<i>Triplecia</i>	I-213	<i>Fenestella</i>	I-114
extensa, <i>Cyrtina</i>	I-142	<i>Gaudryina</i>	I-5
<i>Platystrophia</i>	I-179	<i>filitexta</i> , <i>Strophomena</i>	I-204
<i>Strophomena</i>	I-204	<i>filitexta crenulata</i> , <i>Strophomena</i>	I-204
extensus, <i>Didymograptus</i>	I-102	<i>filitexta obesa</i> , <i>Strophomena</i>	I-204
<i>Graptolithus</i>	I-102	<i>filitextus</i> , <i>Pleurocystites</i>	I-70
<i>Plectospathodus</i>	III-140	<i>filosa</i> , <i>Pentremitidae</i>	I-72
extenuatus, <i>Didymograptus</i>	I-102	<i>Schizocrania</i>	I-196
<i>Graptolithus</i>	I-102	<i>Valvata</i>	II-81
extremus, <i>Climacograptus</i>	I-95	<i>fimbriatus</i> , <i>Astralites</i>	II-8
		<i>Reteocrinus</i>	I-86
		<i>firthi</i> , <i>Prismatophyllum</i>	I-56

fischeri, Alveolites	I-47	formosum, Calathium	I-9
Cladopora	I-47	Ephippiorthoceras	II-210,234
Eurypterus	III-87	Orthoceras	II-234
Nemodon	II-144	Sphaerium	II-171
Triarthrus	III-83	Uromystrum	III-41,83
fischeri rectangularis, Eurypterus	III-87	formosum, Nathyurellus	III-41
fissicosta, Opisthoptera	II-146	fortieri, Pseugastrioceras	II-323
fissus, Tomagnostus	III-32	foveata, Strophomena	I-205
fittoni, Calathium	I-9	fowleri, Sphaerium	II-171
flabella, Tesselacauda	III-82	fragile, Streptelasma	I-32
flabellites, Leptocoelia	I-155	fragilis, Dicranopora	I-123
Orthis	I-173	Helopora	I-116
flaccidus, Graptolithus	I-102	Ptilodictya	I-123
Leptograptus	I-102	Rhabdaria	I-10
flaccidus spinifer, Leptograptus	I-106	fragilis var. prairiensis, Inoceramus ..	II-122
flagellifera, Ctenopyge	III-11	fragilis var. subnodata, Ulrichia	III-112
flagricauda, Kainella	III-69	fragmentaria, Ammobaculites	I-4
flavius, Orthoceras	II-233	fragmentum, Penthetria	III-127
flemingi, Anomia	II-88	fragosa, Bairdia	III-94
Flemingites? sp. indet.	II-284	frami, Daonella	II-112
fletcheri, Paracyclas	II-153	frankensis, Modiolus	II-137
Ptysmaphora	III-132	franklinense, Actinostroma	I-20
Scaldia	II-170	franklinensis, Spinagnostus	III-31
flexilis, Clonograptus	I-102	franconia, Frondicularia	I-2
Graptolithus	I-102	fraseri, Haplophragmoides	I-5
flexistriatus, Euomphalus (Straparollus)	II-20	fraternum, Uromystrum	III-41,83
flexuosum, Lithostrotion	I-64	fraternus, Bathyurellus	III-41
flexuosus, Anisograptus	I-94	Illaenus	III-65
Cornulites	III-135	freboldi, Cadoceras	II-274
Dendrograptus	I-96	Paradoxides	III-25
florealis, Amygdalocystites	I-72	Frechites sp.	II-285
florealis laevis, Amygdalocystites	I-73	Fremontia sp.	III-16
fluctuosa, Strophomena	I-205	fringilla, Camarotoechia	I-191
foerstei, Endodiscosorus	II-210	Rhynchonella	I-191
Lingula	I-157	fritzi, Spyroceras	II-254
Probillingsites	II-248	frondosa, Escharopora	I-113
foliacea, Vaginulina	I-3	fruticulosus, Dendrograptus	I-96
folium, Cardiograptus	I-95	Graptolithus	I-102
fontinensis, Nodosaria	I-3	fulgur, Endoceras	II-239
foordi, Arcyzona	III-94	Orthoceras	II-239
Octonaria	III-108	funata, Hormotoma?	II-49
forbesi, Glyptocystites	I-69	Murchisonia	II-49
Hyolithes	II-342	fundiensis, Schizodus	II-170
Lingula	I-157	funteri, Zemistephanus	II-339
Spirifer	I-198	furcata, Rhabdaria	I-10
forbesianum, Phyllopachyceras	II-320	furcula, Isograptus	I-105
forceps, Dicclograptus	I-97	furnivali, Inoceramus	II-122
forchhammeri, Paradoxides	III-25	furtivum, Orthoceras	II-234
fordei var. minimus, Quasillites	III-111	Protocycloceras	II-234
formosa, Helopora	I-116	fuscus, Gonionotites	II-286,300
Linearia	II-128	Juvavites (Gonionotites)	II-300
Striatopora	I-58	futile, Amphicyrtoceras	II-187,238
formosensis, Dechenella (Baside- chenella)	III-56		

<i>gabrielensis</i> , <i>Metacoscinus</i>	I-17
<i>galatea</i> , <i>Martinia</i>	I-162
<i>Stropheodonta</i>	I-205
<i>Strophomena</i>	I-205
<i>galba</i> , <i>Agnostus</i>	III-35
<i>galeata</i> , <i>Gypidula</i>	I-177
<i>gallowayi</i> , <i>Batostoma</i>	I-111
<i>galtensis</i> , <i>Euomphalus</i>	II-20
<i>Ilionia</i>	II-120
<i>Obolellina</i>	I-168
<i>Obolus</i>	I-168
<i>Pleurotomaria</i>	II-64
<i>Rhinobolus</i>	I-168,190,195
<i>gamachiana</i> , <i>Lophospira</i>	II-36
<i>Schuchertella</i>	I-197
<i>gardeni</i> , <i>Hauericeras</i>	II-292
<i>gasconense</i> , <i>Armenoceras</i>	II-189
<i>Gasconoceras</i> sp.	II-211
<i>gaspéensis</i> , <i>Stricklandia</i>	I-202
<i>Stricklandinia</i>	I-202
<i>gaspense</i> , <i>Diestoceras</i>	II-206
<i>Metaspyroceras</i>	II-221
<i>Orthoceras</i>	II-234
<i>gaspensis</i> , <i>Favosites</i>	I-39
<i>Sphaeragnostus</i>	III-79
<i>Spirifera</i>	I-198
<i>gaspensis</i> , <i>Pterygotus</i>	III-88
<i>gaspensis</i> , <i>Fenestrellina</i>	I-115
<i>Gaudryceras</i> sp.	II-286
<i>gayensis</i> , <i>Pteronites</i>	II-168
<i>geinitzianus</i> , <i>Ptilograptus</i>	I-108
<i>Geisonoceras</i> sp.	II-212
<i>gemma</i> , <i>Acrotreta</i>	I-127
<i>Obolella</i>	I-167
<i>Sphaerium</i>	II-171
<i>gemiccula</i> , <i>Orthidium</i>	I-173
<i>Orthis</i>	I-173
<i>gemicculum</i> , <i>Orthidium</i>	I-171
<i>genelatus</i> , <i>Hystericurus</i>	III-63
<i>geniculatum</i> , <i>Lavaloceras</i>	II-218
<i>geometricum</i> , <i>Enterolasma</i>	I-38
<i>germana</i> , <i>Pyxiprimitia</i>	III-110
<i>geronticus</i> , <i>Discosorus</i> (?)	II-207
<i>Gervillia</i> n. sp. (a)	II-115
<i>gesneri</i> , <i>Endodesma</i>	II-134
<i>Modiolopsis</i>	II-134
<i>Pterinea</i> ?	II-166
<i>gethingii</i> , <i>Distichites</i>	II-281
<i>Gonionotites</i>	II-301
<i>Juvavites</i> (<i>Gonionotites</i>) ..	II-301
<i>Sagenites</i>	II-326
<i>gibberulus</i> , <i>Dolichometopus</i> ?	III-57
<i>gibbosa</i> , <i>Hartiella</i>	I-151
<i>Kochiella</i> ?	III-19
<i>Rafinesquina</i>	I-186
<i>Syntrophina</i>	I-209
<i>Vanuxemia</i>	II-180
<i>gibbosa</i> <i>seversoni</i> , <i>Nudirostra</i>	I-165
<i>gibbosa</i> <i>walcotti</i> , <i>Nudirostra</i>	I-166
<i>gibbosum</i> , <i>Diestoceras</i>	II-206
<i>Oncoceras</i>	II-225
<i>gibbosus</i> , <i>Doleroides</i>	I-147
<i>gibbus</i> , <i>Dimeropyge</i>	III-56,60
<i>Paraparchites</i>	III-109
<i>gietzi</i> , <i>Sphaerium</i>	II-171
<i>gigantea</i> , <i>Hormotoma</i>	II-32
<i>Planophlebia</i>	III-129
<i>giganteum</i> , <i>Anaspyroceras</i> ?	II-188
<i>Fremontoceras</i>	II-211
<i>giganteus</i> , <i>Oxydiscus</i>	II-57
<i>giganteus</i> ? var. <i>vancouverensis</i> ,	
<i>Helcion</i>	II-26
<i>gigas</i> , <i>Aucella</i>	II-91
<i>Haplophragmoides</i>	I-6
<i>Isotelus</i>	III-68
<i>gikshanensis</i> , <i>Ctenostreon</i>	II-103
<i>gilberti</i> , <i>Olenellus</i>	III-21,22
<i>gilpini</i> , <i>Brachyprion</i>	I-131
<i>girtyi</i> , <i>Schuchertella</i>	I-197
<i>gitinsi</i> , <i>Yakounoceras</i>	II-338
<i>glabella</i> , <i>Cyrtodonta</i>	II-108
<i>glaber</i> , <i>Hamites</i> (?)	II-289
<i>Leiorhynchus</i>	I-153
<i>Rhytophorus</i> (?)	II-73
<i>Triarthrus</i>	III-83
<i>glabra</i> , <i>Cyrtina</i>	I-143
<i>Haplophragmoides</i>	I-6
<i>Liopistha</i>	II-128
<i>Liostrophia</i>	I-162
<i>glabrescens</i> , <i>Paracephalites</i> ..	II-274,316,317
<i>glabroides</i> , <i>Dithyrocaris</i>	III-114
<i>glabrum</i> , <i>Beudanticeras</i>	II-273
<i>Leiostegium</i> (<i>Evansaspis</i>) ..	III-71
<i>Placentoceras</i>	II-320
<i>glacialis</i> , <i>Fenestrirostra</i>	I-191
<i>Camarotoechia</i>	I-191
<i>Rhynchonella</i>	I-191
<i>Shumardia</i>	III-79
<i>glaciense</i> , <i>Asklepioceras</i>	II-271
<i>gladiola</i> , <i>Ptilodictya</i>	I-124
<i>gladius</i> , <i>Diplograptus</i> (<i>Glyptograptus</i>) ..	I-99
<i>glans-fagea</i> , <i>Centronella</i>	I-137
<i>glansfagea</i> , <i>Cyclospira</i>	I-141
<i>glassi</i> , <i>Plagiorhyncha</i>	I-178
<i>glaucus</i> , <i>Cheirurus</i>	III-51
<i>Endoceras</i> ?	II-234
<i>Orthoceras</i>	II-234

glaukos, Palaeocardita	II-151	gracilis perangulatus, Corynoides	I-95
glendayi, Mytilus (Pharomytilus)	II-143	gracilitatis, Meekoceras	II-309
glenni, Actinoceras?	II-186	gracillimum, Loxonema	II-38
glengarrja, Amplexopora	I-110	grahami, Myophoria (Elegantinia)	II-141
glengarrja shermanense, Amplexopora	I-110	Grammoceras? sp. indet.	II-287
Gleviceras? sp. indet.	II-286	grandaeva, Orthisia	I-176
Globigerina sp.	I-2	Pomonotrema	I-176
globosus, Bumastus	III-66	grandaevum, Pamatotrema	I-176
Illaenus	III-66	grandaevus, Belinurus	III-85
Menocephalus	III-20	grande, Cassinoceras	II-195
Onchonotus	III-20	grandescens, Cercopsis	III-123
Pasceolus	III-143	grandifrons, Jubileia	III-18
Probillingsites	II-248	grandis, Byssonychia	II-93
glomerosa, Camarotoechia	I-133	Glyptocystites	I-69
gloucesterensis, Öpikina	I-169	Illaenus	III-66
Subulites	II-78	Lophospira	II-36
Glyphaspis(?) sp.	III-17	Microcyclus	I-53
goldfussi, Lyopora	I-29	Panenka	II-152
goniata, Ceratocephala	III-49	Pentremites	I-72
Goniatites sp.	II-286	Pinnatopora	I-121
Goniobasis sp.	II-25	Prasopora	I-122
goniostoma, Pleurotomaria	II-64	Ptychagnostus	III-29
Goniotelus sp. ind.	III-60	Trimerella	I-212
goniumbonata, Whitella	II-182	grandis var. latimarginata, Isochilina	III-103
goniurus, Asaphus	III-39	granopunctatus, Graphiadactyllis	III-101
Megalaspis	III-39	granosa, Parabolbina	III-108
goniglypta, Raymondia	III-111	granosistriatum, Kionoceras	II-217
goodrichensis, Lucina?	II-129	granti, Aulocopina	I-8
Gorbyoceras sp.	II-214	Harpes	III-60
gorensis, Ortonella(?)	II-148	granulatum, Pleurectinium	III-28
gorgo, Amygdalocystites	I-73	granulosa, Rhytimya	II-169
gothlandicus, Favosites	I-39	Senescella	III-111
gothlandicus magnus, Favosites	I-39	Shumardia	III-79
gouldense, Armenoceras	II-189	grattanensis, Cyrtodonta	II-107
gracia, Holoepa	II-28	greenockensis, Spirifer	I-198
gracile, Dowlingoceras	II-247	gregarius, Cyclocrinites	III-143
Poterioceras	II-247	Dendrocrinus	I-77
Protokionoceras?	II-249	Pasceolus	III-143
Tetragonoceras	II-256	Pleuromya (Myacites)	II-160
Whitfieldoceras	II-259	greggi, Westonoceras	II-258
gracilis, Acervularia	I-35,45	greilingi, Lonchodina	III-139
Aphylostylus	I-24	grimsbyense, Amphicyrtoceras	II-226
Halysites	I-27	griphus, Cydonocephalus	III-55
Hormotoma	II-50	groenlandicus, Paleofavosites	I-43
Murchisonia (Hormotoma)	II-50	quadrigeminum, Cyathophyllum	I-50
Ponteixites	II-321	guelphensis, Holoepa	II-28,29
Rhabdotophorus	II-168	Pycnostylus	I-44
Schloenbachia	II-327	guelphica, Lophospira	II-53
Sonninia	II-327	Guembelites sp.	II-287
Strombodes	I-45	guhsani, Trigonina	II-175
Tryplasma	I-34	Guttulina sp.	I-2
Webbia	I-3	Gyraulus? sp.	II-26
gracilis borealis, Catenipora	I-27	Gyronema sp.	II-26
Halysites	I-27	Gyrophioceras? sp. indet.	II-289

<i>gypsea</i> , <i>Murchisonia</i>	II-50
<i>hacqueti</i> , <i>Distichites</i>	II-281
<i>haesitans</i> , <i>Cyrtonybyoceras</i>	II-234
<i>Modiolodon?</i>	II-132
<i>Orthoceras</i>	II-234
<i>hagei</i> , <i>Liardiphyllum</i>	I-64
<i>hageri</i> , <i>Cyclonema</i>	II-13
<i>hagersvillense</i> , <i>Orthoceras</i>	II-234
<i>hagi</i> , <i>Gymnites</i>	II-288
<i>Pinna</i>	II-159
<i>haidaquensis</i> , <i>Hoplites</i>	II-296
<i>haimeana</i> , <i>Phyllopora</i>	I-120
<i>haldemani</i> , <i>Proetus</i>	III-76
<i>halei</i> , <i>Pleurotomaria</i>	II-64
<i>halli</i> , <i>Bucania</i>	II-9
<i>Columnaria(?)</i>	I-25
<i>Cyclocrinites</i>	III-143
<i>Cyclocystoides</i>	I-88
<i>Dechenella (Dechenella?)</i>	III-56
<i>Foerstephyllum</i>	I-25
<i>Lyopora</i>	I-25, 29
<i>Pasceolus</i>	III-143
<i>Plectoceras</i>	II-246
<i>hallianum</i> , <i>Cyclonema</i>	II-14
<i>Zitteloceras</i>	II-198
<i>halysitoides</i> , <i>Diphyphyllum</i>	I-26
<i>Tetradium</i>	I-34
<i>hamata</i> , <i>Lingula</i>	I-157
<i>hamili</i> , <i>Unio</i>	II-177
<i>Unio (Elliptio)</i>	II-177
<i>hamiltonensis</i> , <i>Cystodictya</i>	I-112
<i>Hamites(?) sp. undet.</i>	II-290
<i>hammelli</i> , <i>Spyroceras</i>	II-254
<i>hannai</i> , <i>Xenoceltites</i>	II-337
<i>Hannaoceras sp.</i>	II-290
<i>hansonii</i> , <i>Sonninia</i>	II-330
<i>Haplophragmoides sp.?</i>	I-2
<i>haradai</i> , <i>Pachydiscus</i>	II-314, 316
<i>Pachydiscus (=Eupa-</i> <i>chydiscus?)</i>	II-314, 315
<i>haradai? var. perplicatus</i>	II-315
<i>haradai var. usheri</i> , <i>Eupachydiscus</i> ..	II-314
<i>hardingi</i> , <i>Parallelidon</i>	II-153
<i>harkeri</i> , <i>Ekvasophyllum</i>	I-63
<i>harmonia</i> , <i>Holopea</i>	II-29
<i>Harpoceras sp.</i>	II-291, 327
<i>Harpoceras sensu lato sp. indet.</i>	II-292
<i>harpya</i> , <i>Pleurotomaria</i>	II-65
<i>harrietta</i> , <i>Cyrtodonta</i>	II-108
<i>harrisi</i> , <i>Compsocrinus</i>	I-76
<i>harrisonensis</i> , <i>Astarte</i>	II-89
<i>Aucella</i>	II-91
<i>Pleuromya</i>	II-160
<i>hartii</i> , <i>Modiola</i>	II-137
<i>hartii</i> , <i>Edmondia</i>	II-112
<i>Naticopsis</i>	II-54
<i>Serpula</i>	III-137
<i>Stroboceras</i>	II-256
<i>harviei</i> , <i>Pterotheca</i>	II-71
<i>harveyi</i> , <i>Cerithium</i>	II-11
<i>Palaeocorystes</i>	III-117
<i>Paracadoceras</i>	II-316
<i>Terebratula</i>	I-209
<i>hashimotoi</i> , <i>Paracephalites</i>	II-274, 317
<i>hasta</i> , <i>Biginerina</i>	I-4
<i>Lingula</i>	I-157
<i>hastatum</i> , <i>Orthoceras</i>	II-235
<i>Tripteroceras</i>	II-235, 257
<i>hatae</i> , <i>Daphnites (Silenticeras)</i>	II-279
<i>Silenticeras</i>	II-279, 328
<i>haydeniana</i> , <i>Pseudocolumna</i>	II-70
<i>hayesi</i> , 'Ceratites'	II-275, 276
<i>hayesi var. angulatus</i> , 'Ceratites'	II-276
<i>hayesi var. pinguis</i> , 'Ceratites'	II-276
<i>hazeltonense</i> , <i>Plagiostoma</i>	II-159
<i>headi</i> , <i>Graptolithus</i>	I-103
<i>Tetragraptus</i>	I-103
<i>Healdia sp.</i>	III-102
<i>hebe</i> , <i>Coelidium</i>	II-50
<i>Murchisonia</i>	II-50
<i>hecate</i> , <i>Centronella</i>	I-137
<i>hector</i> , <i>Phragmoceras</i>	II-244
<i>hecuba</i> , <i>Strophomena</i>	I-205
<i>heibergensis</i> , <i>Prionolobus</i>	II-322
<i>Helcionella? sp. undet.</i>	II-27
<i>helena</i> , <i>Liospira</i>	II-35, 65
<i>Pleurotomaria</i>	II-65
<i>helicteres</i> , <i>Lophospira</i>	II-50
<i>Murchisonia</i>	II-50
<i>Helictites sp.</i>	II-292
<i>Heliomerinid pygidium</i>	III-61
<i>helle</i> , <i>Gymnoceras</i>	II-288
<i>Hemigyraspis sp.</i>	III-62
<i>Hemimylacris sp. (pronotum)</i>	III-120
<i>hemiplicata</i> , <i>Camerella</i>	I-135
<i>hemispherica</i> , <i>Öpikina</i>	I-169
<i>hemisphericus</i> , <i>Chonetes</i>	I-138
<i>henrici</i> , <i>Anapolemus</i>	III-4
<i>henryi</i> , <i>Warrenoceras</i>	II-336
<i>herbichi</i> , <i>Trachysagenites</i>	II-335
<i>hercules</i> , <i>Charactoceras</i>	II-195, 223
<i>Nautilus</i>	II-223
<i>heros</i> , <i>Streptoceras</i>	II-256

hermione, <i>Avicula</i>	II-91
<i>Murchisonia</i>	II-50
hermitagensis, <i>Platystrophia</i>	I-179
hermoine, <i>Lophospira</i> ?	II-50
hertleini, <i>Entolium</i>	II-113
heskethense, <i>Sphaerium</i>	II-171
heslingtonensis var. <i>regalis</i> ,	
<i>Myophoria</i>	II-141
hespelerense, <i>Phragmoceras</i>	II-244
hespelerensis, <i>Murchisonia</i>	II-50
heteropleura, <i>Goniomya</i>	II-115
hexagonalis, <i>Pachydictya</i>	I-120
hicksi, <i>Paradoxides</i>	III-25
higdoni, <i>Hydrobia</i>	II-34
hilaris var. <i>dawsoni</i> , <i>Buchites</i>	II-273
Hildoceraceae gen. et sp. indet.	II-293
hillanum, <i>Protocardium</i>	II-163
hillianus, <i>Anthrpalaeon</i>	III-113
himilayense, <i>Dicerocardium</i>	II-112
Hindeodella n. sp.	III-139
hindi, <i>Cyrtodonta</i>	II-108
<i>Neozaphrentis</i>	I-24
<i>Whitella</i>	II-108
hindii, <i>Actinoceras</i>	II-186
<i>Michelinoceras</i> ?	II-222
<i>Orthoceras</i>	II-186
hippolyte, <i>Archaeorthis</i>	I-173
<i>Orthis</i>	I-173
hirundo, <i>Didymograptus</i>	I-99
hirundo occidentalis, <i>Didymograptus</i> ...	I-99
hisingeri, <i>Dikelocephalus</i>	III-13
<i>Favosites</i>	I-39
<i>Leperditia</i>	III-106
<i>Pseudolisania</i>	III-13
<i>Syringopora</i>	I-48,58
hisingeri var. <i>egena</i> , <i>Leperditia</i>	III-106
hisingeri var. <i>fabulina</i> , <i>Leperditia</i> ...	III-106
hisingeri var. <i>gibbera</i> , <i>Leperditia</i>	III-106
hispidus, <i>Favosites</i>	I-39
hitzi, <i>Zitteloceras</i>	II-260
hogbeni, <i>Escharopora</i>	I-113
hollandi, <i>Gymnites</i>	II-288
'Prionites'	II-321
homalonotoides, <i>Isoteloides</i>	III-68
homfrayi, <i>Asaphellus</i>	III-39
<i>Niobe</i> (<i>Niobella</i>)	III-74
hongkongensis, <i>Hongkongites</i>	II-295
Hongkongites n. sp.?	II-295
honeymani, <i>Conularia</i>	II-340
<i>Pterinea</i>	II-166
horani, <i>Acidaspis</i>	III-35
hornbyense, <i>Heteroceras</i>	II-293
<i>Nostoceras</i>	II-293,313
hornbyensis, <i>Surcula</i>	II-79
horrida, <i>Lingula</i>	I-157
horridus, <i>Glossograptus</i>	I-100
hortonensis, <i>Limnoprimitia</i> ?	III-107
hoskinsoni, <i>Streptelasma</i>	I-44
hospitalis crassa, <i>Homotrypella</i>	I-118
howelli, <i>Bailiaspis</i>	III-5
<i>Ctenocephalus</i>	III-11
<i>Erycites</i>	II-283
<i>Peronopsis</i>	III-26
howi, <i>Naticopsis</i>	II-54
howsei, <i>Phalacroma</i> ?	III-27
hubbardi, <i>Unio</i>	II-178
huguesensis, <i>Lyrodesma</i>	II-129
<i>Whitella</i>	II-182
hullense, <i>Protokionoceras</i> ?	II-250
hullensis, <i>Brachiospongia</i>	I-8
<i>Ctenodonta</i>	II-102
<i>Lingula</i>	I-157
<i>Palaeosolen</i> ?	II-152
<i>Rafinesquina</i>	I-188
humboldtii, <i>Arnioceras</i> n. sp. near ...	II-270
humei, <i>Byronoceras</i> (?)	II-248
<i>Crateroceras</i> (?)	II-251
<i>Dolichometopsis</i>	III-14
<i>Discosorus</i>	II-207
<i>Hexacrinus</i>	I-81
<i>Melocrinus</i>	I-83
<i>Unio</i>	II-178
humi, <i>Hollandites</i> ?	II-294
<i>Juvavites</i> (<i>Anatomites</i>)	II-300,301
humile, <i>Diaphorostoma</i>	II-14
<i>Orthodesma</i> ?	II-147
humilis, <i>Cyclonema</i>	II-14
hunterensis, <i>Wilbernia</i> (?)	III-34
huronense, <i>Beloitoceras</i>	II-199
<i>Cyrtoceras</i>	II-199
<i>Cystiphyllum</i>	I-38
<i>Orthoceras</i>	II-235
<i>Stromatocerium</i>	I-22
huronensis, <i>Apiocystites</i>	I-68
<i>Brockocystis</i>	I-68
<i>Calapoecia</i>	I-24
<i>Carabocrinus</i>	I-75
<i>Cyclocystoides</i>	I-88
<i>Cyrtodonta</i>	II-108
<i>Lingula</i>	I-157,158
<i>Lingulella</i>	I-157
<i>Strophomena</i>	I-204
<i>Trematis</i>	I-210
Huroniella sp.	II-216
huttoni, <i>Asaphus</i>	III-40
huxleyi, <i>Stenaster</i>	I-42
<i>Urasterella</i>	I-42

hyacinthensis, <i>Byssonychia</i>	II-93	<i>Orthis</i>	I-173
<i>Ctenodonta</i>	II-102	<i>Protokionoceras</i>	II-250
<i>Lingula</i>	I-158	<i>imperfectum</i> , <i>Spongophyllum</i>	I-57
<i>Lophospira</i> (?)	II-36	<i>impressimarginata</i> , <i>Gryphaea</i>	II-118
<i>Modiolopsis</i>	II-134	<i>inaequalis</i> , <i>Castocrinus</i>	I-81
<i>hyala</i> , <i>Whitfieldella</i>	I-214	<i>Cremacrinus</i>	I-81
<i>hyale</i> , <i>Pleurotomaria</i>	II-65	<i>Heterocrinus</i>	I-81
<i>hyatti</i> , <i>Juvavites</i> (<i>Anatomites</i>)	II-301	<i>inaequioratus</i> , <i>Sirenites</i>	II-328
<i>hyatti rutherfordi</i> , <i>Drepanites</i>	II-282,283	<i>inaequiradiata</i> , <i>Strophomena</i>	I-205,206
<i>hybrida</i> , <i>Phyllodictya</i>	I-120	<i>inaequistriata</i> , <i>Strophomena</i>	I-205
<i>Prasopora</i>	I-122	<i>inaequivalva</i> , <i>Rhynchotrema</i>	I-194
<i>Rhipidomella</i>	I-190	<i>inanimata</i> , <i>Anthomyia</i>	III-121
<i>hybridus</i> , <i>Ptychagnostus</i>		<i>inarmata</i> , <i>Peronopsis</i> (<i>Acadagnostus</i>)	III-26
(<i>Triplagnostus</i>)	III-29	<i>inarmatus</i> , <i>Acontheus</i>	III-3
<i>Hypagnostus?</i> sp.	III-18	<i>incerta</i> , <i>Columnaria</i>	I-26
<i>hyperborea</i> , <i>Fusilina</i>	I-1	<i>Eofletcheria</i>	I-26
<i>hypoleprus</i> , <i>Encrinurus</i>	III-57	<i>Fletcheria</i>	I-26,27
<i>Hypotetragona</i> sp.	III-103	<i>Monotrypa</i>	I-119
<i>Hypothyridina</i> sp.	I-152	<i>Orthonota</i>	II-148
<i>hyrie</i> , <i>Metoptoma</i>	II-46	<i>Parabolina?</i>	III-23
<i>Hystericurus</i> sp.	III-63	<i>Platystrophia</i>	I-179
<i>hystrix</i> , <i>Trichospongia</i>	I-11	<i>incertus</i> , <i>Doryagnostus</i>	III-15
		<i>inclinatum</i> , <i>Armenoceras</i>	II-189
<i>icarus</i> , <i>Ceraurinus</i>	III-51	<i>Ekvasophyllum</i>	I-63
<i>Cheirurus</i>	III-51	<i>incondita</i> , <i>Zaphrentis</i>	I-59
<i>ida</i> , <i>Elkhanina</i>	I-107	<i>inconditus</i> , <i>Isorophus</i>	I-89
<i>Obolella</i>	I-107	<i>Isorophusella</i>	I-89
<i>idae</i> , <i>Sandlingites</i>	II-326	<i>Lebetodiscus</i>	I-89
<i>idahoensis</i> , <i>Acrotreta</i>	I-127	<i>inconspicua</i> , <i>Macoma</i>	II-130
<i>iddingsi</i> , <i>Cyprina?</i>	II-106	<i>inconstans</i> , <i>Trichonodella</i>	III-141
<i>ignotus</i> , <i>Microcyclus</i>	I-53	<i>Vanuxemia</i>	II-180
<i>Illdraites</i> n. sp.	III-135	<i>increbescens</i> , <i>Rhynchonella</i>	I-191
<i>ilicifolius</i> , <i>Phyllograptus</i>	I-107	<i>Rhynchotrema</i>	I-194
<i>Iliaenid hypostome</i>	III-64	<i>Spirifer</i>	I-198
<i>Iliaenoides</i> , <i>Asaphus</i>	III-40	<i>increbescens occidentis</i> , <i>Rhynchotrema</i>	I-194
<i>Symphysurus</i>	III-40	<i>incurvata</i> , <i>Strophomena</i>	I-205
<i>itasyoucoensis</i> , <i>Grammatodon</i> (?)	II-116	<i>indagator</i> , <i>Cameroceras</i>	II-237
<i>Iliaenus</i> sp. indet. 1 and 2	III-67	<i>Endoceras?</i>	II-194,237
<i>imbecilis</i> , <i>Pleurothis</i>	I-205	<i>Orthoceras</i>	II-237
<i>Strophomena</i>	I-205	<i>indentus</i> , <i>Didymograptus</i>	I-103
<i>imbricatum</i> , <i>Lowoceras</i>	II-220	<i>Graptolithus</i>	I-103
<i>imitans</i> , <i>Beloitoceras</i>	II-192	<i>indeterminatus</i> , <i>Bumastus</i>	III-48
<i>imlayi</i> , <i>Lilloettia</i>	II-305	<i>indianensis</i> , <i>Camarotoechia</i>	I-133
<i>Warrenoceras</i>	II-305,336	<i>indicum</i> , <i>Lemuroceras</i>	II-305
<i>immatura</i> , <i>Composita</i>	I-140	<i>indifferens</i> , <i>Amplexi-Zaphrentis</i>	I-61
<i>Pleurotomaria</i>	II-65	<i>Indoclionites?</i> sp.	II-297
<i>immaturum</i> , <i>Conocardium</i>	II-98	<i>indra</i> , <i>Ammonites</i>	II-264
<i>immutabilis</i> , <i>Nodosaria</i>	I-3	<i>Pseudophyllites</i>	II-264,324
<i>imperator</i> , <i>Cactocrinus</i>	I-75	<i>inelegans</i> , <i>Calvinaria</i>	I-132
<i>Centrotarphyceras?</i>	II-219	<i>inexpectans</i> , <i>Agnostus</i>	III-3
<i>Hebertella</i>	I-151	<i>Holotrachelus</i>	III-62
<i>Lituites</i>	II-219	<i>Sphaerophthalmella</i>	III-80
		<i>infelix</i> , <i>Discosorus</i> (?)	II-235
		<i>Orthoceras</i>	II-235

- inflata, Ampyx III-37
 Carbonita III-98
 Gervillia? II-114
 Mytilarca II-143
inflata var. nepeana, Fusispira II-22
inflatum, Hexameroceras II-215
inflatus, Brachyprion I-131
 Strophostylus II-77
inflecta, Huroniella II-216
informis, Alectryonia II-85
 Holopea II-29
infranodosa, Pleurotomaria II-65
infrequens, Hormotoma II-50
 Murchisonia II-50
ingalli, Bathyrurus III-44
 Bathyrurus (Raymondites) III-44
 Raymondites III-44
ingrahami, Yakounoceras II-313
ino, Gymnotoceras II-288
Inoceramus spp. II-125
inopinatus, Megadiscosorus II-221
inops, Euomphalus (Straparollus) II-20
inornata, Modiomorpha II-139
 Naticopsis II-54
 Odostomia(?) II-55
inornatum, Trochonema II-80
inornatus, Grammatodon II-117
insculpta, Melania? II-44
 Nudirostra I-168
insculpta manitoulinensis, Glyptorthis I-150
insculptus, Cyrtolites II-16
insecta, Spathella II-170
Insecta incertae sedis III-121
insigne, Apsidoceras II-188
 Trochoceras II-257
insignis, Bickmorites II-257
instabilis, Metoptoma II-46
insuetum, Metaspyroceras II-221
insulare, Dictyonema I-93
insularis, Bronteus III-47
 Goldius III-47
 Ischadites? III-144
 Prasopora I-122
 Receptaculites? III-144
insulcata, Helcionella? II-27
intermedia, Archaeorthis I-128
 Geniocladia I-115
 Plecia III-130
 Rhynchotrema I-194
 Saffordia II-169
 Trigonia II-175
intermedia var. antigonishensis,
 Calymene III-49
intermedium, Cyclendoceras II-197
 Cyrtogomphoceras II-225
 Mesostoma(?) II-44
 Spvroceras II-254
intermedius, Cyclocrinites III-142
 Favosites I-26
 Pasceolus III-143
internastriatum, Curtoceras II-197
interruptum, Cyathophyllum I-37
interstitialis, Strophodonta I-203
intornatus, Longobardites II-307
intortus, Ecculiomphalus II-18
inuiti similis, Climacograptus I-95
inulta, Cyrtina I-142
inutile, Danoceras II-204
inutilis, Diplograptus I-100
 Lasiograptus (Hallograptus) .. I-100
involutus var. via-alaska,
 Anagymnites II-266
inwoodense, Asthenophyllum I-35
iola, Aorocrinus I-74
iole, Lingula I-158
 Lingulella I-158
 Tostonia III-82
iowensis, Isotelus III-68
 Pseudolingula I-183
 Receptaculites III-144
iphigenia, Ctenodonta II-102
 Dinorthis I-173
 Orthis I-173
iphigenia media, Dinorthis I-146
iphigenia minor, Dinorthis I-146
irene, Leptostrophia I-206
 Lingula I-158
 Lingulella I-158
 Strophomena I-206
ireneana, Monotis? II-139
ireneanus, Styrites II-333
irenense, Entolium II-113
 Lemuroceras II-305
iris, Lingula I-158
 Lingulella I-158
irrasa, Conularia II-341
irregulare, Plasmadictyon I-31
irregularis, Astrocoenia I-67
 Dictyonema I-98
 Helopora I-116
 Hudsonospongia I-9
 Strophomena I-206
 Trematopora I-116
Irvingella (Irvingellina)? sp. undet. III-18
Ischyrophyma sp. ind. III-67
ishmae, Arcticoceras II-268
isodorum, Beloitoceras II-199

isodorus, <i>Beloitoceras</i>	II-199	kakwaensis, <i>Ladogia</i>	I-153,184
<i>Cyrtoceras</i>	II-199	<i>Pugnoides</i>	I-184
italicus, <i>Gonionotites</i>	II-287	<i>Kakwiphyllum</i> sp.	I-64
itinsae, <i>Itinsaites</i>	II-299	<i>kananaskia</i> , <i>Rhynchotrema</i>	I-194
<i>Teloceras</i>	II-333	<i>kanense</i> , <i>Dactylioceras</i>	II-278
		<i>Kawina</i> sp. ind.	III-53,69
		<i>Kayseraspis</i> (?) sp.	III-70
<i>jacksoni</i> , <i>Oxytoma</i>	II-150	<i>keelei</i> , <i>Actinodictyon</i>	I-20
<i>jacquoti</i> , <i>Pachydiscus</i>	II-316	<i>keenae</i> , <i>Yoldia</i> (<i>Yoldiella</i>)	II-183
<i>janea</i> , <i>Rhynchonella</i>	I-192	<i>keewatinense</i> , <i>Actinoceras</i>	II-186
<i>janeum</i> , <i>Rhynchotrema</i>	I-192	<i>Stokesoceras</i> (?)	II-186
<i>janus</i> , <i>Streptoceras</i>	II-256	<i>keewatinensis</i> , <i>Phaenopora</i>	I-126
<i>jason</i> , <i>Leptodesma</i>	II-126	<i>keithi</i> , <i>Oldhamia</i>	III-143
<i>Nautilus</i>	II-224	<i>kelownaensis</i> , <i>Plecia</i>	III-131
<i>Plectoceras</i>	II-224	<i>kelsoensis</i> , <i>Modiolopsis</i>	II-134
<i>jasperensis</i> , <i>Agelacrinites</i>	I-87	<i>kennetcookensis</i> , <i>Schellwienella</i>	I-196
<i>Glyptostrophia</i>	I-150	<i>kentuckiensis</i> , <i>Zygospira</i>	I-214,215
<i>Huenella</i>	I-152	<i>Kepplerites</i> (<i>seymourites</i>) sp. indet. . .	II-304
<i>Lithostrotionella</i>	I-65	<i>kernahani</i> , <i>Pugnax</i>	I-183
<i>jeletzkyi</i> , <i>Arctoasteroceras</i>	II-268	<i>kerri</i> , <i>Mojsisovicsites</i> (<i>Stikinoceras</i>) .	II-332
<i>jessica</i> , <i>Murchisonia</i>	II-51	<i>Stikinoceras</i>	II-332
<i>jewetti</i> , <i>Cupulocrinus</i>	I-76	<i>keslingi</i> , <i>Phlyctiscapha</i>	III-109
<i>johnseni</i> , <i>Anodonta</i>	II-87	<i>kindlei</i> , <i>Barrandella</i>	I-131
<i>Nucula</i>	II-145	<i>Cyclendoceras</i>	II-208
<i>Periploma</i>	II-156	<i>Cyclopyge</i>	III-54
<i>johnsoni</i> , <i>Lingula</i>	I-158	<i>Deiroceras</i>	II-204
<i>Tropites</i>	II-335	<i>Dendrograptus</i>	I-97
<i>johnstoni</i> , <i>Bathyurus</i>	III-44	<i>Goniotelus</i>	III-59
<i>jonesi</i> , <i>Ischadites</i>	III-144	<i>Kainella</i>	III-69
<i>Receptaculites</i>	III-144	<i>Linobrachiocrinus</i>	I-82
<i>josephianum</i> , <i>Sactoceras</i>	II-251	<i>Linocrinus</i>	I-82
<i>jucundus</i> , <i>Paracephalites</i>	II-317	<i>Lophospira</i>	II-36
<i>judithensis</i> var. <i>minimus</i> . <i>Goniobasis</i> .	II-24	<i>Manticoceras</i>	II-309
<i>jukesi</i> , <i>Apatolichas</i>	III-38,71	<i>Melocrinus</i>	I-83
<i>Eophyton</i>	III-142	<i>Metaspyroceras</i>	II-221
<i>Lytoceras</i>	II-307	<i>Ormoceras</i>	II-228
<i>jukesii</i> , <i>Acrolichas</i>	III-71	<i>Orthoceras</i>	II-235
<i>Ammonites</i>	II-264	<i>Ptychoparella</i>	III-30
<i>Lichas</i>	III-71	<i>Ptychophyllum</i>	I-57
<i>julia</i> , <i>Athyris</i>	I-129	<i>Rudolfoceras</i>	II-251
<i>Leptaena</i>	I-206	<i>Tetragraptus</i>	I-108
<i>Strophomena</i>	I-206	<i>Yukonaspis</i>	III-34
<i>Whitfieldella</i>	I-129	<i>kindli</i> , <i>Frechites</i>	II-285
<i>julicum</i> , <i>Dielasma</i>	I-144	<i>Leiophyllites</i> ?	II-305
<i>julius</i> , <i>Amphion</i>	III-37	<i>kingi</i> , <i>Gastroplites</i>	II-285,286
<i>Colobinion</i>	III-37,54	<i>kingii</i> , <i>Fusus</i>	II-23
<i>junia</i> , <i>Athyris</i>	I-129	<i>kingstonensis</i> , <i>Cyrtodonta</i>	II-111
<i>juvenalis</i> , <i>Cyrtoceras</i>	II-199	<i>Lingula</i>	I-158
<i>juvencostatum</i> , <i>Trocholiticeras</i>	II-258	<i>Lingulella</i>	I-158
		<i>Nanno</i>	II-223
		<i>Kionoceras</i> sp.	II-217
<i>kagawongensis</i> , <i>Archinacella</i>	II-4	<i>kiparisovae</i> , <i>Oxytoma</i>	II-150
<i>Rhytimya</i>	II-169	<i>kirki</i> , <i>Haplophragmoides</i>	I-6
<i>Vanuxemia</i>	II-180	<i>Paleofavosites</i>	I-43

kissoumi, Panope?	II-160	Onchocephalites	III-22
Pleuromya	II-160	Pleurocystites	I-71
Pleurophorus	II-162	Protaxocrinus	I-82,86
Thracia	II-174	laeviusculus, Ampyx	III-37
Yoldia	II-184	laflammei, Glyptometopus	III-17
klingzutensis, Anodontophora?	II-87	laksel, Pteria?	II-165
klochensis, Eostenopora	I-113	lamarcki, Orthoceras	II-235
Kloedenia? sp. indet.	III-104	Protocycloceras	II-235,249
kloedeni var. acadica, Beyrichia	III-95	lambarti, Sciophyllum	I-66
klushaense, Pecten (Variamussium) ..	II-155	lambei, Actinoceras(?)	II-186
knechteli, Kosmoceras (Gulielmiceras) ..	II-304	Lambeoceras	II-213
knighti, Homalonotus	III-63	Ormoceras	II-228
knowltoni, Juvavites (Anatomites) ..	II-301	Penthetria	III-127
knoxi, Canadiphyllum	I-62	Xylonomus	III-133
kochi, Arcticoceras	II-268	lambertense, Neophylloceras	II-312
kochii, Beyrichia (Neobeyrichia)	III-95	lambii, Dibunophyllum	I-62
kozłowski, Polychaetaspis?	III-136	Goniceras	II-213
kunae, Fanninoceras	II-284,327	Lambeoceras	II-213
kunae var. crassum, Fanninoceras ...	II-284	Plasmopora	I-31
kunae var. latum, Fanninoceras	II-284	lambtonense, Orthoceras	II-236
kwakiutlanus, Arniotites	II-271	lamellatus, Paradoxides	III-25
kwoiekensis, Aucella	II-91	lamellornatus, Eatonioides	I-148
		lamellosa, Orbiculoidea	I-170
		laminatus, Microcephalites	II-310
		lanceolata, Kobayashia	III-70
		lanceolatus, Mytilus	II-143
labechei, Alveolites	I-35	laperousianus, Ammonites	II-264
labellosa, Isochilina	III-103	lapicida, Raphistoma	II-72
labiosa, Alveolites	I-47	Raphistomina	II-72
Cladopora	I-47	lapworthi, Dictyonema	I-98
Halliella	III-102	laqueatum, Kionoceras	II-217
labrosa, Isochilina	III-103	larvalis, Longobardites	II-307
labrosus, Saccarchites	III-103	larvata, Eotomaria	II-19,27
labyrinthicus, Halysites	I-41	Helicotoma	II-27
lachlani, Blothromicromus	III-122	lata, Cleiothyridina	I-139
Lachnostoma(?) sp.	III-70	Parapoulsenia	III-25
lacombi, Turnus	II-177	Productella	I-181
Unio	II-178	Rafinesquina	I-186
lacteana, Corbula	II-99	Salpingostoma(?)	II-73
Physa	II-59	Schellwienella	I-196
lacunata, Marginulina	I-2	latiannulatum, Goryoceras?	II-213
lacunosus, Archaeocrinus	I-79	laticarinata, Lophospira	II-37
Glyptocrinus	I-79	laticephalus, Meteoraspis	III-21
lacustris, Eurypterus	III-87,88	laticeps, Eurypterus	III-87
Quepora	I-32	Plethometopus	III-28
laeta, Myophoria	II-141	laticostatus, Microcycclus	I-53
laeta var. eminens, Myophoria	II-142	laticurvatum, Cyrtoceras	II-199
laevicostata, Eoleaia	III-90,91	Winnipegoceras	II-199
Leaia	III-91	latifrons, Bellaspidella?	III-7
laevigata, Pleuromya	II-161	latigenae, Bailiaspis	III-5
laevis, Amecystis	I-71	latilimbata, Metabowmania	III-73
Archinacella	II-4	latilineatum, Neumatoceras	II-224
Bullopورا	I-4	latimarginalis, Briscoia?	III-8
Lecanocrinus	I-82	latimarginata, Dihogmochilina	III-103
Leaia	III-91		

latimarginatus, Ogygites	III-74	leo, Ozarkispira	II-58
Peronopsis(?)	III-26	Leodicites sp.	III-136
latissimus, Productus (Striatifera)	I-182	leophanis, Waldthausenites	II-336
latistriata, Hebertella	I-151	Leperditiae spp.	III-107
Mimella	I-151	lepida, Rhynchotreta	I-195
latisulcatum, Vermiceras	II-335	Vaginulina	I-3
lativia, Primitia	III-110	Leptodesma sp.	II-126
latolineatum, Polygrammoceras	II-247	Leptoplastus sp.	III-20
latouri, Modiolopsis	II-134	leucothea, Cyrtodonta	II-109
latum, Dielasma	I-144	Leurorthoceras? n. sp. A	II-218
Digenuoceras	II-206	levata, Ctenodonta	II-102
Oxygonioceras(?)	II-243	leve, Nitanoceras	II-312
latum gibbosum, Dalmanella	I-144	levinsoni, Semihealdoides	III-111
latus, Isotelus	III-40,41	levisense, Clarkoceras	II-196
Pseudagnostus	III-28	Protocycloceras	II-249
latusculum, Streptelasma	I-49	Rudolfoceras	II-251
laura, Rhynchonella	I-192	levisensis, Acrothele	I-127
laurenci, Asklepioceras	II-271	Orthis	I-173
laurentina, Monomerella	I-164	Platydiamesus	III-27
Orthis	I-173	Tatonaspis	III-31
Pleurotomaria	II-65	lewesensis, Cyrtina	I-142
Rafinesquina	I-186,187	lewisagassizi, Yaadia	II-183
laurentinus, Encrinurus	III-57	lewisi, Lingula	I-159
lautum, Tripteroeras?	II-257	leylandensis, Inoceramus	II-123
lavalense, Diestoceras	II-206	leylandensis var. bighornensis,	
lavinia, Holoepa	II-29	Inoceramus	II-123
lavinia var. conica, Holoepa	II-29	liardense, Gymnoceras	II-289
lawrencense, Clarkoceras	II-196	Platenticeras (Perezianum	
Endoceras?	II-209	var?)	II-320
laxa, Proboscina	I-123	liardensis, Terebratula	I-210
laxata, Favositella	I-113	libertyi, Carcinosoma	III-86
Fistulipora	I-115	Lichas (Terataspis) n. sp.	III-72
leachi, Entolium	II-113	ligarius, Cyrtoceras	II-199
leai, Viviparus	II-82	Maelonoceras (Beloitoceras) II-199	
Leaia sp.	III-92	Ligonodina sp.	III-139
leaiiformis, Eoleaia	III-90,92	ligulus, Remopleurides	III-78
Pseudestheria	III-92	lillei, Cadoceras	II-274
leana var. whiteavesi, Trigonina	II-176	lilloetensis, Lilloettia	II-306
leathamense, Faberophyllum	I-63	Lilloettia? sp. indet.	II-306
leda, Brachyprion	I-131	Lima (Plagiostoma) sp. indet.	II-128
Granatocrinus	I-72	limata, Marginulina	I-2
leidy, Amphicoelia	II-86	limbata, Kawina	III-52,53,69
Spirifer	I-199	limnaeiformis, Lioplacodes	II-34
leiosoma, Holoepa	II-29	limnaeiformis, Thaumastus	II-79
lenior, Cymatonata	II-105	limpidiana, Arctica	II-88
lennoxensis, Rafinesquina	I-187	limulurus, Dalmanites	III-55
lens, Cotalagnostus	III-10	linarssoni bretonensis, Andrarina	III-5
Cyprimeria	II-106	linearis, Murchisonia	II-51
lens subsp. C. claudicons,		lineata, Bufina	III-96
Cotalagnostus	III-11	Helopora	I-116
lenticulare, Amusium	II-86	Nematopora	I-116
lenticularis, Camerella	I-135	lineatus, Ethmophyllum	I-117
Lenticulina sp.	I-2	Graphiadactyllis	III-101
lentiexpansum, Stereotoceras	II-255	linensis, Anomia	II-88

lineolatum, Phragmoceras	II-244
lineopora, Helopora	I-117
lingulaeformis, Frondicularia	I-2
lingulata, Cassianella	II-95
linguloides, Westonia	I-214
linki, Eoeponidella	I-4
linnaeanum?, Eophyton	III-142
linnarsoni bretonensis, Andrarina	III-5
linneana, Striatopora	I-58
liratum, Spyroceras	II-254
liratus, Nephriticeras	II-224
lirella, Euestheria	III-91
Lithostrotion sp.	I-65
litoreus, Bathyrellus	III-42
littlei, Trigonina	II-175
lituus, Spongophyllum	I-57
livingstonensis, Cucullaea	II-103
Sphaerium	II-172
llandoveriana rossonia, Camarotoechia	I-133
Lloydia sp. indet.	III-72
lobata, Clarkella	I-139
Pterinea	II-166
lobatus, Taxocrinus	I-87
lobiferum, Beloiticeras	II-192
loeblichii, Monticulipora	I-119
logani, Beyrichia	III-95
Ctenodonta	II-102
Dalmanitina	III-55
Endoceras?	II-209
Eusarcus	III-88
Glyptocystites	I-69
Graptolithus	I-103
Iphidea	I-153
Loganellus	III-22
Loganograptus	I-103
Maclurea	II-41
Maclurites	II-41,43
Micromitra (Paterina)	I-153
Olenellus	III-22
Olenus?	III-22
Schuchertoceras	II-252
Scotiella	III-55
logani aurora, Chonetes	I-138
logani var. conservatrix, Dalmanitina	III-56
Scotiella	III-56
logani gracilis, Glyptocystites	I-69
logani var. leperditioides, Beyrichia	III-95
logani pertenuis, Loganograptus	I-106
logani var. reniformis, Beyrichia	III-95
loganianus, Ammonites	II-265
Olcostephanus	II-313
Seymourites	II-313
loidli var. canadensis, Distichites	II-282
lomondensis, Triplagnostus	III-33
longa, Licnocephala	III-72
Platystrophia	I-178
longaeva, Aphaenogaster	III-121
longifrons, Taenicephalus	III-32
longigibbera, Leperditia	III-106
longirostra, Camerella	I-135
longirostris, Onychoplecia	I-135
longispinus, Protopliomerops	III-77
longispira, Coelocaulus	II-13
longissimus, Serpulites	III-137
longituda, Egorovia	III-100
longiuscula, Rebeiria (Rebeirina)	III-134
lophota, Beyrichiopsis	III-96
lorentensis, Cryptolithus	III-54
loriformis, Lebetodiscus	I-89
Lepidoconia	I-89
lorrainensis, Ctenodonta	II-102
loveanum, Warrenoceras?	II-336
lowi, Actinodictyon	I-20
Armenoceras	II-190
Boreaster	I-36
Homeospira	I-152
Plectoceras	II-246
Rhynchospira	I-193
lowrii, Fanninoceras	II-284
lowvillensis, Homotrypa	I-117
Loxonema? sp.	II-39
lucia, Dalmanella	I-174
Orthis	I-174
lucifer, Dimeropyge	III-56
Inoceramus	II-123
lucretia, Lingula	I-159
ludense var. camerini, Orthoceras	II-236
Lumbriconexereites sp.	III-136
lunata, Dalmanella	I-143
lunatus, Bronteus	III-48
Eobronteus	III-48
Goldius	III-48
lundarensis, Dibunophyllum	I-38
lundbreckensis, Inoceramus	II-123
lycoperdon selwyni, Prasopora	I-122
lydia, Eotomaria	II-65
Pleurotomaria	II-65
lydiana, Hallopore	I-115
lyelli, Aviculopecten	II-92
Ectenoglossa?	I-159
Fenestella	I-114
Lingula	I-159
Orthoceras	II-236
Productus	I-182
Productus (Linoproductus)	I-182
Sactoceras	II-236
lyelliformis, Aviculopecten	II-92
lyra, Isograptus	I-106

- lysander, *Cyrtoceras* II-200
Manitoulinoceras II-200
- macconnelli*, *Anodonta* II-87
maccoyiana, *Beyrichia* (*Neobeyrichia*) III-96
maccoyiana var. *sulcata*, *Beyrichia*
(*Neobeyrichia*) III-96
macer, *Bellerophon* II-8
macerata, *Aplexa* II-7
machaeiformis, *Ctenodonta* II-102
macilentus, *Microcyclus* I-53
mackenzie, *Melocrinus* I-83
mackenziei, *Discus* II-17
mackenziensis, *Olenellus* III-22
Tentaculites II-344
mackenzii, 'Hugarites' II-297
Juvavites II-301
Kanastephanus II-304
maclearni, *Neogastrolites* II-312
Maclurea sp. *opercula* II-42
Maclurites sp. *operculum* II-43
macouni, *Lithostrotion* I-64
Phillipsastræa I-56
macra, *Allorhynchus* I-128
Macroculites(?) sp. III-72
macrolineatus, *Euomphalus* II-21
macrops, *Columbicephalus* III-54
Nileus III-74
macrospira, *Murchisonia* II-51
maculosa, *Maclarenella* I-162
madisonensis, *Ctenodonta* II-103
magdalena, *Pugnax* I-184
magister, *Cassinoceras* II-245
magna, *Ambocoelia* I-128
Okulitchina I-10
Plectorthis I-180
Strophomena I-206
magna (*vetusta*? var.) *Protarea* I-32
magnacostata, *Leaia* III-91
magnacurta, *Bairdia* III-94
magnapuncta, *Halliella* III-102
magnifica, *Columnaria* I-26
Fenestella I-114
Hungaia III-13
Obelellina I-168
Strophomena I-206
magnifica tullia, *Leptostrophia* I-208
magnificum, *Apsidoceras* II-214
Chonophyllum I-48
Gyroceras (*Lituities*) ... II-214
magnificum var. *major*, *Apsidoceras* .. II-188
magnificum var. *multicameratum*,
Apsidoceras II-188
magnificum, *Cleioocrinus* I-76
Cyrtopleurites II-277
Dikelocephalus III-13
Dinobolus I-168
Mesomphalus III-108
magnipora, *Pachydictya* I-120
magnisulcatum, *Kionoceras* II-236
Orthoceras II-236
magniventer, *Stropheodonta* I-206
magniventra, *Strophomena* I-206
magnum, *Cyrtogomphoceras* II-225
Loxonema II-39
Oncoceras II-225
Prismatophyllum I-57
magnum? var. *intermedium*, *Oncoceras* II-225
magnum, *Bathyrurus* III-45
Juvavites II-300,301
Maclurites II-40
mahaffii, *Asklepioceras* II-272
maia, *Modiolopsis* II-134
maior, *Keithiella* III-19
Onchocephalus III-22
major, *Cleidophorus* II-96
Lyrodesma II-129
Pseudolingula I-183
Sphaerophthalmus III-32
majus, *Brachyprion* I-206
malayomaorica, *Malayomaorica* II-130
mammillata, *Favositella* I-113
mandannaense, *Modiola* II-137
manitobense, *Batostoma* I-111
Cyrtoceras II-200
Endoceras II-209
Gomphoceras II-212
" *Gomphoceras* " II-212
Westonoceras II-200,258
manitobensis, *Actinocamax* II-261
Angopora I-24
Belemnitella II-261
Bronteus III-48
Chonetes I-138
Euomphalus II-21
Glossites II-115
Maclurea II-41
Maclurina II-41,42
Meristina I-163
Miliammina I-6
Naticopsis II-54
Neozaphrentis I-42
Nucula? II-145
Omphalocirrus ... II-21,55,56
Orthis (*Schizophoria*) ... I-174

Porcellia	II-70
Proetus	III-77
Tritaxia	I-7
manitobensis var. lawrencii,	
Actinocamax	II-261
manitobensis var. ovalis, Maclurina ...	II-42
manitobensis var. spicularis,	
Actinocamax	II-261
manitouensis, Stricklandinia	I-202
manitoulinense, Billingsites	II-194
Sactoceras	II-251
manitoulinensis, Dalmanella	I-143
Drymocrinus	I-78
Ischyrodonta(?)	II-125
Leperditia	III-106
Lophospira	II-37
Modiolopsis	II-135
Probillingsites	II-194
manitoulini, Vallatotheca	II-5
mantelli, Lingula	I-159
manuelensis, Bailiella	III-6
marchandi, Defonticeras	II-279
marcoui, Platycolpus	III-27
margaritoides, Pleurotomaria(?)	II-65
marginale, Sactoceras	II-252
marginalis, Fenestella	I-114
marginata, Phoreotropis?	III-27
Pinacotrypa	I-121
marginatus, Ceraurinus	III-50
Glyptocrinus	I-79
marginatus, Bathyurellus	III-42
Marginulina sp.	I-3
maria, Orthis	I-174
maria parkensis, Hebertella	I-151
maritimum, Cystiphyllum	I-38
marklandense, Orthoceras	II-236
marklandensis, Camarotoechia	I-133
Eophacops	III-75
Liospira	II-35
Phacops (Portlockia) ..	III-75
Pterinea	II-166
maro, Gorbyoceras	II-214
Orthoceras	II-236
Spyroceras	II-236
marshalli, Chondroceras	II-276
Orthis	I-174
Saxitoniceras	II-327
martensi, Odostomia ("Amaura")	II-55
martini, Procladiscites	II-322
maskusi, Euomphalus	II-21
massasaugaense, Loganoceras	II-220
matanensis, Anisograptus	I-94
matanensis tetragraptoides, Aniso-	
graptus	I-94
matonabbei, Camptonectes	II-94
matranseris, Ceraurus	III-50
mattanensis, Goniomya	II-115
matthewi, Acrocephalops	III-3
Bonnia	III-15
Elyx	III-16
Peronopsis (Acadagnostus) ..	III-26
matutina?, Maclurea	II-41
matutinus, Hudsonaster	I-91
maudense, Defonticeras	II-279
maudensis, Lithodomus	II-129
Nerinaea	II-55
Rhynchonella	I-192
Sphenodiscus	II-330
Trigonia	II-175
maurelli, Harpoceras	II-291
maxeyi, Kochiella?	III-19
maximum, Isotelus	III-68
maximus, Isotelus	III-68
maxneri, Bulimorpha	II-10
maylandensis, Crenella	II-100
Tellina	II-173
mayvillensis, Virgiana	I-213
mccanni, Turcicula	II-81
mccharlesi, Trochoceras	II-257
Wilsonoceras	II-188,257,259
mconnelli, Avicula (Oxytoma)	II-150
Chlamys	II-95
Cyathophyllum	I-48
Hemigraspis	III-62
Hollandites?	II-295
Hoplites	II-296
Nathorstites	II-310,321
Nemodon	II-144
Popanoceras	II-321
Tabulophyllum	I-48,58
Yoldia	II-184
mconnelli var. lenticulare,	
Popanoceras	II-321
mconnelli var. lenticularis,	
Nathorstites	II-310,321
mccoyi, Cyrtoceras	II-200
Diestoceras	II-200
mcevoyi, Alectryonia	II-85
Kepplerites (Seymourites) ..	III-338
Martesia	II-131
Yakounites	II-338
mcgerrigleyi, Campbelloceras	II-195
Clarkella	I-139
mckayensis, Eulomella	III-59
mclareni, Lithostrotion [Lithostrotion-	
ella] [Thysanophyllum]	I-65
mclayi, Juvavites	II-301

mclearnii, Arkelloceras	II-270	Melania? sp.	II-44
Baculites	II-272	melissa, Metoptoma	II-46
Inoceramus	II-123	Stricklandinia	I-202
Keplerites	II-304	melonica, Chonetes	I-138
Mclearnia	II-131	melvillensis, Lingula	I-159
Panope	II-152	membranacea, Asmusia	III-89
Pholadomya	II-158	menelaus, Ormoceras(?)	II-236
Pleurolimnaea	II-61	Orthoceras	II-236
Sphaerium	II-172	mercurius, Cheirurus	III-52
Unio	II-178	Clarkoceras	II-202
mcleodensis, Grangerella	II-25	Cydocephalus	III-52
m'clintocki, Ludwigia	II-307	Cyrtocera	II-202
Pseudolioceras	II-323,324	Levisoceras	II-202
mcshaniensis, Inoceramus	II-123	meristoides, Emanuella	I-149
mctaggarti, 'Hungarites'	II-307	merope, Skenidioides	I-197
Longobardites	II-307	merrilli, Anawasatchites	II-267
meafordensis, Modiolopsis	II-135	mertoni, Brachyprion	I-131
Taeniaster	I-93	Juvavites	II-302
Zygospira	I-215	mertonyarwoodi, Lilloettia	II-306
medea, Rhynchonella	I-192	mesacanthus, Distichites	II-282
media, Holoepa	II-29	mesoplanum, Dielasma	I-145
medialis, Lophospira	II-37	mesoporosa, Prasopora	I-122
medicinensis, Maligneocrinus	I-83	Metacarnites sp.	II-309
mediocris, Cyclonema	II-14	metastatus, Metacephalites	II-309
Cyrtodonta	II-109	Paracephalites	II-309,317
Goniophora	II-116	Metalegoceras sp.	II-309
Holoepa?	II-14	metellus, Cyrtoceras	II-200
mediosulcata, Lytospira	II-40	Dyscritoceras	II-200
medium, Parapopanoceras	II-317	metion, Hardyia	III-60
medon, Armenoceras	II-236	Metriophyllum sp.	I-52
Orthoceras	II-236	mica, Rhynchonella	I-192
meedsi germana, Dinorthis	I-146	Zygospira	I-192
meedsi plana, Dinorthis	I-146	micans, Hyolithellus	II-343
meekanus, Pecten	II-172	Hyolithes	II-343
meeki, Endymion	III-58	miccus, Miccocephalites	II-310
Endymionia	III-58	Michelinoceras? sp.	II-222
meeki var. deleeni, Wasatchites	II-337	micra, Lithostrotionella	I-65
meekiana, Syncyclonema	II-172	microbasalis, Archaeocrinus	I-74,87
Tellina	II-173	Thysanocrinus	
megacanthus, Distichites	II-282	(Rhodocrinus)	I-87
Megalodon? n. sp.	II-132	microdiscus, Microcyclus	I-53
Megalomus sp.	II-132	microlineatum, Protokionoceras	II-250
megalops, Dikelocephalus	III-13	Spyroceras	II-238
Richardsonella	III-13	microlobatum, Endoceras	II-209
Taenicephalus	III-32	micronema, Barbatia	II-92
Meganeura sp.	III-120	microphthalmus, Orygmaspis	III-23
megarche, Oreohelix	II-57	micula, Liospira	II-35
meginae, Paratrachyceras		miettense, Imlayoceras	II-297
(Meginoceras)	II-329,331	milleri, Bumastus	III-66
Sirenites	II-329,331	Bumastus (Bumastoides)	III-66
Sirenites (Meginoceras)	II-329,331	Illaenus	III-66
Steinmannites (Meginoceras)	II-331	Lophospira	II-37
Megistocrinus sp.	I-83	millionensis affinis, Strophomena	I-206
megumaensis, Schizocrania	I-196	millipunctata, Dalmanella	I-143

milviformis, Dielasma	I-145	mirus, Encrinurus	III-57
mimer, Posidonia	II-162	miser, Conocephalites	III-10
minas, Zaphrentis	I-66	Labradoria	III-10
minerensis, Baculites	II-272	Modiolopsis	II-135
Ostrea	II-149	Pleurotomaria	II-66
minganense, Barrandeoceras	II-191	Ptychoparia	III-10
Curtoceras?	II-219	misera, Labradoria	III-10
Endoceras	II-209	Obolella	I-167
Orthoceras	II-236	missisquoi, Dikelocephalus	III-56
Schroederoceras(?)	II-219	Kirkoceras?	II-237
Spyroceras	II-236	Murchisonia	II-51
minganensis, Amphilichas	III-71	Orthoceras	II-237
Archaeocyathus	I-8	Pleurotomaria	II-66
Archaeoscyphia	I-8	mississippiensis, Myalina	II-140
Bathyrus	III-45	missouriensis, Spirifer	I-199
Hudsonospongia	I-9	mitis, Aparchites	III-93
Lichas	III-71	moderatum, Gymnotoceras	II-289
minima, Corbula	II-99	modesta, Cyrtodonta	II-109
Lingula	I-159	Lophospira	II-37
miniscula, Schizocrania	I-196	Microtrypa	I-163
minna, Orthis	I-174	Murchisonia	II-51
minnesotensis, Homotrypa	I-117	modicum, Mictophyllum	I-54,55
minnewankensis, Productus	I-182	modioliformis, Whiteavesia	II-181
Spirifer	I-199	Modiolopsis sp.	II-136
Spiriferella	I-200	moira, Platystrophia	I-179
Tripliphyllum	I-66	mojsuarensis, Discotropites	II-281
minor, Cleidophorus	II-96	mokowanensis, Dimorphptychia	II-17
Enoplocytha	III-115	Viviparus	II-82
Gonioceras	II-213	mollis, Strophomena	I-207
Hardyoides	III-17	moniliformis, Anomalina	I-4
Leptoplastus	III-19	Stomatopora	I-125
Oncoceras	II-226	Trachytoechus	I-126
Probillingsites	II-248	monoceros, Gonioteloides	III-59
Schistometopus?	III-31	Monocyathus sp.	I-17
minuscula, Modiolopsis	II-135	Monomerella sp. uncertain	I-195
minusculum, Endodesma	II-113	montanus, Albertechinus	I-93
minuta, Cornwallia	I-141	montini, Monotis	II-139
Flemingia	II-21	montisdorsus, Plagionephodes	III-109
Platystrophia	I-179	montrealense, Apsidoceras	II-188
Sowerbyella	I-197	Clitendoceras	II-237
Strophomena	I-207	Lambeoceras	II-218
minuta adulta, Platystrophia	I-179	Triendoceras	II-257
minutilla, Allanaria	I-127	montrealensis, Cyclonema	II-14
minutula, Plecia	III-131	Metoptoma	II-46
minutum, Ehippiorthoceras	II-211	Orthoceras	II-237
Streptorhynchus	I-201	Trematis	I-210
minutus, Pugnax	I-184	Trochonemella?	II-80
Straparollus	II-76	Vanuxemia	II-180
miodeltoidea, Rafinesquina	I-187	moorei, Holasaphus	III-62
mira, Cybele	III-57	morani, Tropites	II-335
mirabilis, Amplexus	I-47	mordenensis, Spiroplectammina	I-6
Cryptopora	I-112	moresbyensis, Inoceramus	II-123
Zaphrentis	I-47	mordidgei, Graphiadactyllis	III-101
mirum, Cadioceras	II-275	morienensis, Archimylacris	III-119

morigera, Myophoria	II-142	Murrayoceras	II-223,237
morrisi, Ormoceras	II-228	Obolus	I-168
morrissii, Asaphus	III-40	Orthoceras	II-237
morticina, Palloptera	III-126	muskwa, Ussurites	II-335
mosquensis, Aucella	II-91	mutabile, Actinoceras	II-186
Buchia	II-93	Diphyphyllum	I-63
Mourlonia sp.	II-47	Lithostrotion (Diphyphyllum) .	I-64
mountjoyi, Cardioceras	II-275	mycale, Orthis	I-174
mountjoyi var. robusta, Cardioceras .	II-275	myllita, Murchisonia	II-51
mucronata, Oxytoma	II-150	“Myophoria” sp.	II-142
Rafinesquina	I-187	myrice, Cyrtoceras	II-200
muelleri, Cadoceras	II-274	Myriapoda incertae sedis	III-119
multiauritus, Himavatites	II-294	myrtea, Cyrtia	I-142
multibrachiatus, Hemicystites		Mystrocephala sp.	III-73
(Lebetodiscus)	I-89	mytiloides(?), Melina	II-132
Lebetodiscus	I-89		
multicameratum, Cyrtorizoceras	II-204	nabeschi, Sirenites	II-329
Michelinoceras?	II-222	nahwisi, ‘Hungarites’	II-297
Orthoceras	II-237	Inoceramus	II-123
multicarinata, Goniobasis?	II-24	Posidonomya	II-123,162
multicaule, Synaptophyllum	I-45	nahwisi var. goodrichensis,	
multicostatus, Trocholites	II-258	Inoceramus	II-124
multicostellata, Atrypa	I-130	Posidonomya	II-124,162
multidens, Diplograptus (Mesograptus) .	I-100	nahwisi var. moberliensis,	
multilinigera, Brachydontes	II-93	Inoceramus	II-124
multilobatum, Pseudosageceras	II-324	Posidonomya	II-124,162
multiperforatus, Alveolites	I-47	naiadiformis, Murraia	II-140
multiplora, Acanthocladia	I-110	nais, Modiolopsis	II-135
Glyptocystites	I-69	nana, Modiolopsis	II-135
multiplorus, Coscinocyathus	I-16	Penthetria	III-128
multiseptatum, Mictophyllum	I-55	Plecia	III-128
multispinata, Hantkenina	I-2	nanaimoensis, Tellina	II-173
multistriatum, Kionoceras	II-217	Unio	II-178
multisulcatus, Pachydiscus	II-265,315	nanainoensis, Parallelodon	
multitabulata, Hallopora	I-116	(Nanonavis)	II-144
multitubulatum, Vaginoceras	II-258	nanseni, Sirenites	II-329
multivolvis, Hormotoma	II-51	nanuk, Ptychites	II-325
Murchisonia	II-51	napii, Legumen	II-126
multorbis, Melania	II-44	Lima	II-127
multus, Seymourites	II-328	narrawayi, Calliops	III-49
munda, Corbula	II-99	Nartheoceras? sp.	II-223
mundus, Geragnostus	III-59	nasuta, Ctenodonta	II-103
Lecanites	II-304	Microtrypa	I-163
mundula, Primitia	III-110	natator, Barrandeoceras	II-224
mundulus, Aparchites	III-94	Nautilus	II-224
Proetus	III-77	Naticonema sp.	II-54
muralis, Flabellina	I-1	natosini, “Astarte”	II-90
murchisoni, Malocystites	I-69	Baculites	II-272
Murchisonia sp. undet.	II-53,54	Proclydonautilus	II-249
murphyi, Tricrepicephalus	III-33	Unio	II-178
murrayensis, Viviparus	II-82	Unio (Quadrula)	II-178
murrayana, Loxonema	II-39		
murrayi, Beloitoceras	II-199		
Dictyonema	I-98		

navarroensis, Fulguraria	II-21
nebrascensis, Goniobasis	II-24
Gryphaea	II-118
nebrascensis nebrascensis, Lioplacodes	II-34
nebrascensis producta, Lioplacodes ...	II-35
nebrascensis whitei, Campeloma	II-11
needhami, Juvenites	II-303
neevesii, Pachydiscus	II-315
neglecta, Camarotoechia	I-133
Strophomena	I-207
nelsonense, Westonoceras	II-258
nelsoni, Phragmoceras	II-244
nematophora, Corbula	II-99
nemoralis, Palaeocardita	II-151
neptuni, Actinodictyon	I-20
Neogastrolites? sp.	II-312
Neozaphrentis sp.	I-42
nereis, Holoepa	II-30
nereis var. spiralis, Holoepa	II-30
nerine, Ophileta	II-56
nero, Bathyrurus	III-45
Petigurus	III-45
nestor var. canadense, Phragmoceras .	II-244
Neumatoceras sp.	II-225
nevadanus, Longobardites	II-306
nevadense magnum, Pachyphyllum	I-55
nevadensis, Ajacicyathus	I-12
Warrenella	I-214
newberryanus, Ammonites	II-265
Pachydiscus (Canadoceras)	II-315
newberryi, Billingsites	II-194
Schuchertoceras	II-253
newbrunswickensis, Kloedenia?	III-104
newcombei, Gervillia	II-114
newcombii, Hoplites	II-296
Mesostoma (?)	II-45
Toricelliceras	II-296
newmarchi, Stagnicola	II-74
niagarensis, Cystiphyllum	I-38
niagarensis, Conularia	II-340
Favosites	I-39,40
Michelinia	I-42
Vermipora	I-46
niagarensis inaequalis, Favosites	I-40
niagarensis lundarensis, Favosites	I-40
nicolettensis, Holoepa	II-30
nicolletii, Scaphites (Hoploscaphites)	II-327
nidaga, Viviparus	II-82
nidovana, Pleuromya?	II-160
nigelensis, Ramulocrinus	I-86
nihanianus, Pecten	II-155
nihanianus var. dresseri, Pecten	II-155
Nileidae (?) gen. & sp. indet.	III-73
ninevehensis, Gutschickia	III-102
niobe, Metoptoma	II-46
Sanguinolites	II-169
nitanae, Daonella	II-112
Pholadomya	II-158
nitens, Leptaena	I-207
Megamyonia	I-162
Strophomena	I-207
nitida, Ambonychia	II-85
Eccyliomphalus	II-18
Halysites	I-40
Lingulops	I-162
Microtrypa	I-163
Mytilarca	II-85,143
nitidula, Ptilodictya	I-124
nitidus, Bathyrellus	III-42
Graptolithus	I-103
Lithodomus	II-129
nobile, Diestoceras	II-247
Mictrophyllum	I-55
Poterioceras	II-247
nobilis, Fusispira	II-22
Syringopora	I-58
nobilis var. ingens, Fusispira	II-22
nobilis var. medialis, Fusispira	II-22
Nodosaria sp.	I-3
nodosum, Dartoceras	II-204
Spyroceras?	II-254
nodulosa, Beatricia	I-20,21
Hindsia	II-28
nordeggi, Camarotoechia	I-134
nordengi, Diplagnostus	III-14
normale, Charactoceras	II-196
Parapopanoceras	II-318
normalis, Ampyx	III-37
Rafinesquina	I-187
normaloides, Rafinesquina	I-187
normandvillana, Cyrtiopsis	I-142
normani, Pleurotomaria	II-66
northropi, Syringostroma	I-23
nortia, Vanuxemella	III-34
Nortonechinus sp.	I-93
notabile, Diplomoceras	II-280
notans, Asaphus	III-40
Brachyaspis	III-40
notata, Cyrtospira	II-78
notatus, Subulites	II-78
notukeuensis, Pteria	II-165
novaki, Ptychocaris	III-117
novascotica, Hollinella?	III-102
Orbiculoidea	I-170
novascoticum, Ormoceras	II-228

- novascoticus, Chonetes I-138
 Nuculites II-146
 Palaeocaris III-117
 novascoticus crassiconcentricus,
 Chonetes I-138
 nox, Spirifer I-199
 nuclea, Triplecia I-213
 nucula moydartensis, Camarotoechia .. I-134
 Nuculites sp. II-146
 nudum, Lambeoceras II-218
 Phalacroma III-27
 numa, Gyroceras II-215
 numeria, Pleurotomaria II-66
 numitor, Ceraurus III-50
 nuperus, Cheirurus III-52
 nutans, Strophomena I-207
 nutrix, Rhynchonella I-192
 nycteis, Metoptoma II-46
 Tryblidium II-46
 nympa, Ectenoglossa I-148,159
 Lingula I-159
 nymphale, Chonophyllum I-37
 Cyathophyllum I-37

 obconicus, Euspirocrinus I-79
 oberon, Orthoceras II-237
 obesula, Rhynchonella I-192
 obesum, Beloitoceras II-192
 Diestoceras II-212
 Gomphoceras II-212
 Parapanoceras II-318
 Winnipegoceras? II-259
 obesus, Micropileus II-4
 oblatum, Defonticeras II-265
 Stephanoceras II-265
 obligata, Composita I-140
 obliqua, Archaeofungia I-111
 Corbicula II-99
 Holoepa II-30
 Huronia II-215
 Mesotrypa I-118
 Rhindictya I-124
 obliquiseptatus? var. arkonensis,
 Bactrites II-191
 obliquiformis, Inoceramus II-124
 obliquus, Lichenocrinus I-82
 obliterated, Hypoclinia III-125
 oblonga, Eucraterellina III-100
 Pteronitella II-168
 oblongus, Bathyrurus III-45
 Pentamerus I-177
 obscura, Haploprimitia III-102

 obscurum, Ormoceras II-228
 Paraphorhynchus I-176
 obsoleta, Neotaenicephalus III-73
 obstructus, Hamites II-289,290
 obtusa, Cyrtodonta II-109
 Lingula I-159
 Orthonychia II-57
 Salterella II-343
 Straparollina II-75
 obtusata, Oreohelix? II-57,58
 Patula II-58
 obtusiporata, Pleuromya II-160
 obtusus, Probillingsites II-248
 Stenaster I-92
 occidentis, Phanerotrema II-59
 occidentalis, Alpenoceras II-200
 Asthenophyllum I-36
 Cyrtoceras II-200
 Gonioceras II-213
 Peltoceras II-319
 Placentoceras II-320
 occidentalis, Baculites II-272
 Chasmops III-51
 Corbicula II-99
 Cyprina II-106
 Fenestrellina I-115
 Halobia II-119
 Hebertella I-151
 Kingena I-153
 Lophospira II-37
 Lucina II-129
 Pentamerus I-177
 Petraia (pygmae? var.) .. I-43
 Pronorthis I-177
 Pseudomonotis .. II-119,140,164
 Pterinea II-166
 Pycnoidocyathus I-18
 Receptaculites III-144
 Solariella (radiatula? var.) II-74
 Solecortus (Tagelus) ... II-170
 occidentalis var. latiformis,
 Deltopecten II-112
 occipitalis, Bonnia III-8
 oceana, Maclurea II-41
 ochotica, Monotis II-139
 ochotica posteroplana, Monotis II-139
 ochus, Eoorthis I-149
 ochus concentrica, Eoorthis I-149
 octobrachiatus, Graptolithus I-103
 octonarius, Dichograptus I-103
 Graptolithus I-103
 octoplicata, Spiriferina I-201
 oculata, Lingula I-160
 Prasopora I-122

Prasoporina	I-123	orithya, <i>Metoptoma</i>	II-46
oebergi, <i>Arctoceras</i>	II-269	orleansensis, <i>Rafinesquina</i>	I-188
oehana, <i>Rhytimya</i>	II-169	<i>Ormoceras</i> sp.	II-228
Oenonites sp.	III-136	ornata, <i>Bailiella</i>	III-6
offirmata, <i>Composita</i>	I-140	ornatus, <i>Arctocephalites</i>	II-268
ohioense, <i>Conocardium</i>	II-98	<i>Cyrtolites</i>	II-16
ohioensis, <i>Trimerella</i>	I-213	<i>Episculites</i>	II-298
okeni?, <i>Paraparchites</i>	III-109	<i>Glyptocrinus</i>	I-80
okulitchi, <i>Paleofavosites</i>	I-30	<i>Isculites</i>	II-298
<i>Rafinesquina</i>	I-187	<i>Palaeastacus(?)</i>	III-117
oligoneura, <i>Archiinocellia</i>	III-122	<i>Pycnocrinus</i>	I-80
omphalodes, <i>Spirorbis</i>	III-138	<i>Sphaerophthalmoides</i>	III-31
<i>Oncoceras</i> sp.	II-227	orodes, <i>Cyrtoceras</i>	II-201
oneidaense, <i>Acrophyllum</i>	I-49	<i>Grimsbyceras(?)</i>	II-201
<i>Clisiophyllum</i>	I-49	orphyne, <i>Metoptoma</i>	II-47
oneilli, <i>Lymnaea</i>	II-39	orthambonites, <i>Orthis</i>	I-174
onestae, <i>Corbula?</i>	II-100	orthidioides, <i>Rhynchonella</i>	I-192
<i>Integricardium (Onestia)</i>	II-125	<i>Orthoceras</i> sp.	II-243
<i>Laevicardium</i>	II-125	orthodomum, <i>Oncoceras</i>	II-226
<i>Onestia</i>	II-125	orthonotum, <i>Endodesma</i>	II-113
<i>Spirifer</i>	I-201	Ortonella(?) sp.	II-149
<i>Spiriferina</i>	I-201	osagensis, <i>Eumetria</i>	I-149
ontario, <i>Eucheirocrinus</i>	I-79	osilinka, <i>Ajacyathus</i>	I-12
<i>Paraptyx</i> cf.	II-154	osteolatum, <i>Clathrodictyon</i>	I-21
ontarioense, <i>Michelinoceras?</i>	II-222,237	otacodensis, <i>Pachydiscus</i>	II-315
<i>Orthoceras</i>	II-237	otianus, <i>Pecten</i>	II-155
<i>Phragmoceras</i>	II-244	otiosus, <i>Mytilus</i>	II-143
ontarioensis, <i>Microcyclus</i>	I-54	ottawa, <i>Leperditia (Isochilina)</i>	III-106
<i>Onychocrinus</i> sp.	I-84	ottawaense, <i>Armenoceras</i>	II-190
<i>Ooceras?</i> sp.	II-227	<i>Batostoma</i>	I-111
oolithica, <i>Dentalinopsis</i>	I-1	<i>Beloitoceras</i>	II-193
ootacodensis, <i>Pachydiscus</i>	II-315,316	<i>Dermatostroma</i>	I-22
opalinum, <i>Leioceras</i>	II-305	<i>Hemiphragma</i>	I-117
opeongoensis, <i>Rafinesquina</i>	I-188	<i>Leurorthoceras</i>	II-218
ophelia, <i>Holopea</i>	II-30	<i>Orthoceras</i>	II-238
ops, <i>Camerella</i>	I-135	<i>Sactoceras(?)</i>	II-238,252
<i>Parastrophia</i>	I-135	ottawaensis, <i>Archaeocrinus</i>	I-74
orangevillense, <i>Leurocycloceras(?)</i>	II-218	<i>Astrocystites</i>	I-87
orbicaudatus, <i>Bumastus</i>	III-66	<i>Clitambonites</i>	I-139
<i>Illaeus</i>	III-66	<i>Dinorthis</i>	I-146
orbicularis, <i>Amboxychia</i>	II-86	<i>Diplograptus</i>	I-100
<i>Dalmanella</i>	I-143	<i>Drepanorhycha</i>	I-181
<i>Monomerella</i>	I-164	<i>Eccyliomphalus</i>	II-18,57
ordinatum, <i>Orthoceras</i>	II-237	<i>Eoharpes</i>	III-61
<i>Protocycloceras</i>	II-237	<i>Eridotrypella</i>	I-113
orestes, <i>Cyrtoceras</i>	II-201	<i>Glyptocrinus</i>	I-80
<i>Indospirifer</i>	I-152	<i>Goniophora</i>	II-116
<i>Phacops</i>	III-75	<i>Harpes</i>	III-61
<i>Phacops (Portlockia)</i>	III-75	<i>Holopea</i>	II-30
orientale, <i>Spyroceras</i>	II-254	<i>Ischadites</i>	III-143,144
orientalis, <i>Polypora</i>	I-121	<i>Isotelus</i>	III-41
<i>Rhynchonella</i>	I-192	<i>Lichenocrinus</i>	I-82
orilliense, <i>Beloitoceras</i>	II-192	<i>Nicholsonella</i>	I-120
orion, <i>Agnostus</i>	III-4	<i>Ophileta</i>	II-57

- Petraia I-21
 Plectorthis I-180
 Porambonites I-181
 Rafinesquina I-188
 Rhynchotrema I-181
 Steganoblastus I-87
 Steliella I-11
 Stigmatella I-125
 Trematis I-211
 ottawaensis var. anticostiensis,
 Eoharpes III-58
 Trematis I-211
 ottawanus, Micropileus II-4
 ovalis, Acrotreta I-127
 Cyrtodonta II-109
 Holoepa II-30
 Monotis II-140
 Öpikina I-169
 Penthetria III-128
 Pseudomonotis II-164
 Rensselaeria I-190
 ovalis var. kindli, Pseudomonotis ... II-164
 ovata, Monomerella I-164
 Thaleops III-82
 ovata var. alta, Cyprina II-106
 ovata lata, Monomerella I-164
 ovatus, Leptoplastus III-19
 Punctaparchites III-110
 oviformis, Cyrtodonta II-109
 ovinus, 'Hungarites' II-297
 ovoidea, Onchonotus III-22
 ovoidea, Rensselaeria I-190
 ovoidea gaspensis, Rensselaeria I-190
 ovuloides, Pholadomya II-158
 oweni, Dikelocephalus III-13
 Levisella III-13,20
 Receptaculites III-144
 oxfordense, Dyscritoceras? II-242
 oxycona, Gaudryina I-5
 Oxynoticeras sp. indet. II-314
 oxynotum, Oxynoticeras II-314
 Oxytoma sp. II-151
 Ozarkodina sp. III-140

 pacalis, Halobia II-119
 Pachylocrinus sp. I-84
 pacia, Tancredia? II-173
 pacianus, Lobites II-306
 pacifica, Peltura III-75
 pacificus, Telephus III-82
 packardi, Astarte II-90
 Haidaia II-119

 pagoda, Ectomaria II-19
 Eunema? II-19
 Solenspira II-19
 painoides, Gaudryina I-5
 Palaeocaris sp. III-117
 Palaeodictyoptera incertae sedis ... III-120
 Palaphrodes sp. III-126
 Palephora sp. III-126
 paleomelas, Nebria III-126
 palinurus, Bellerophon II-9
 Lituites II-219
 palliseri, Corbula? II-100
 Distichites II-282
 Inoceramus II-124
 paludiniformis, Holoepa II-30
 pamphagus, Pamphagosirenites II-316
 panderi, Camerella I-136
 Dorsoplanites II-282
 Idiospira I-136
 panderiana, Orthis I-174
 pandora, Streptorhynchus I-201
 pannosus, Cyrtolites II-16
 Phragmolites II-16
 pantheri, Rhodocrinites I-86
 papillosa, Lophospira? II-51
 Murchisonia II-51
 papyracea var. carlottensis,
 Pleuromya II-159, 161
 paquettense, Actinoceras II-186, 187
 Allumettoceras II-235
 Anaspyroceras? II-254
 Conocardium II-98
 Deiroceras II-204
 Gonioceras II-213
 Kionoceras II-217
 Loganoceras II-220
 Ormoceras II-228
 Spyroceras II-254
 paquettensis, Onneilla I-168
 Paleoalveolites I-30
 Paracyclas sp. undet. II-153
 paradoxicus, Dendrocystis I-71
 Syringocrinus I-71
 Parahystricurus(?) sp. III-75
 Parajuvavites sp. II-317
 parallela, Primitia? (Beyrichia) ... III-110
 parallelobatus, Echinolichas III-57
 parasitica plana, Monticulipora I-119
 parvus, Juvavites (Malayites) II-302
 Malayites II-302, 308
 pardoneti, Pseudosirenites II-328, 329
 Sirenites II-329
 pardonetiensis, Dimorphites II-280, 302

Juvavites (Dimorphites?)	II-302	pasense parvum, Palaeophyllum	I-30
parksi, Atrypa	I-130	pasithea, Cyathophyllum	I-37
Bellerophon	II-9	paskoiacensis, Brachyprion	I-131
Spyroceras	II-255	paskoiacensis geniculatus, Brachyprion	I-131
parva, Billingsaria	I-26	patella, Bighornia	I-32
Camerella	I-136	patellum, Streptelasma	I-32
Clitambonites	I-139	patens, Bryograptus	I-94
Columnaria	I-26	patersoni precedens, Stropheodonta	I-206
Hartella	I-151	patula, Rafinesquina	I-188
Hindia	I-10	Stenopora	I-125
Liospira	II-35	patulum, Uromystrum	III-41,83
Moorefieldella	I-165	patulus, Graptolithus	I-105
Okulitchina	I-10	pauciradiale, Lithostrotion	I-64
Stylaraea	I-26	paucivolvis, Planorbis	II-60
parvidens, Ctenodonta	II-103	paulianus, Hemiarges	III-62
parvifrons, Hypagnostus	III-18	paulodilatata, Huronia	II-216
parvifrons var. H. mammillatus, Hypagnostus	III-18	pauloinclinatus, Armenoceras	II-190
parvimum, Cyclonema	II-14	pauper, Apatokephaloides	III-13
parviuscula, Modiolopsis	II-135	Dikelocephalus	III-13
parviusculus, Mesopalaeaster	I-91	Oncoceras	II-226
parvulus, Paradoxides	III-25	Pleurotomaria	II-66
parvula, Athyris	I-129	paupera, Zygospira	I-215
Bonnia	III-7,8	pauquettense, Tripteroceras	II-235
Crenella(?)	II-100	Pavlovina? sp. indet.	II-319
Cyrtospira	II-78	pax, Synaptophyllum	I-57
Dorypyge	III-15	peacensis, Pleuromya	II-160
Hydatina	II-33	peaceriverensis, Tellina (Moera)	II-173
Ilionia?	II-120	peachii canadense, Tetradium	I-34
Leptaena	I-154	pearsonensis, Pleuromya	II-160
Martesia(?)	II-131	Pearylandites sp.	II-319
Modiomorpha	II-139	Pecten (Camptonectes) sp.	II-156
Palaeopteria	II-151	pecten, Ctenopyge	III-11
Paravitrea	II-7	Schuchertella	I-197
Polygyra	II-69	pectinata(?), Nucula	II-145
Vanuxemia	II-180	pectinella, Dinorthis	I-146
parvula var. angifrons, Dorypyge	III-7	peculiaris, Eatonia	I-147
parvulum, Anchistoma	II-7	Hallopora	I-116
Gomphoceras	II-213	pelagica, Straparollina	II-75
Heliophyllum	I-52	pelagicum, Cyathophyllum	I-37
Mandaloceras	II-213	Pelecocrinus sp.	I-85
Platyceras (Orthonychia)	II-60	Pellecrinus sp.	I-85
Prismatophyllum	I-57	pelopea, Discina	I-147
parvulus, Aparchites	III-94	Schizotreta	I-196
Bathyrus	III-7	pelops, Asaphus	III-40
Polytropis	II-70	Bellerophon	II-9
Subulites	II-78	pennanti, Cyathophyllum	I-37
Tentaculites	II-343	pennatulus, Didymograptus	I-104
parvum, Phragmoceras	II-244	Graptolithus	I-104
parvus, Cornulites	III-135	pennsylvanica, Syringopora	I-66
Sanguinolites	II-169	pennsylvanicum, Lithostrotion	I-64
Sphaerexochus	III-80	pentagona, Pterotheca	II-71
pasense, Palaeophyllum	I-30	pentagonus, Siphonocrinus	I-87
		Strombodes	I-45

peracuta, Lophospira	II-37	petaliformis, Plasmopora	I-41
perangulata, Corbula	II-100	peterondi, Psilomya	II-165
Goniophora	II-116	petraiodes, Cyathophyllum	I-49
Lophospira	II-37	petriana, Coenothyris	I-139
perannulatum, Orthoceras	II-238	petrorum, Geranchon	III-125
perantiquus, Chaetetes	I-25	Lachnus	III-125
perarcuata, Bythocypris?	III-97	pettiti, Amphicyrtoceras	II-226
perarmata, Acidaspis	III-35	Oncoceras	II-226
perceensis, Marsipograptus	I-106	phaedra, Cyclonema	II-14
percese, Donacoceras	II-207	Phalacroma? sp.	III-27
Neumatoceras	II-224	Pharus sp.	II-157
Orthoceras	II-238	phaseola, Leperditia	III-107
Spyroceras	II-255	Vanuxemia	II-180
percensis, Rafinesquina	I-188	phaseola var. guelphica, Leperditia	III-107
percingulata, Cyclonema	II-14	phaseolina, Bythocypris	III-97
percurvatum, Beloitoceras	II-193	philipsburgense, Endoceras?	II-197
perelongatus, Pentremites	I-72	philipsburgensis, Finkelnburgia	I-171
perezianus, Ammonites	II-265	phillipsiana, Bythocypris	III-94,97
perfecta, Cliftonia (Oxoplecia)	I-139	philomela, Brachyprion	I-132
perforator, Cheirus	III-52	Ectenoglossa	I-148
perforatum, Diaphorostoma	II-17	Lingula	I-160
perforatus, Carinacyathus	I-15	phocion, Proetus	III-77
perimbricata, Plicatula	II-162	pholadis, Cymatonata	II-105
Perisphinctes (?) sensu lato sp. indet.	II-319	pholadiformis, Pholadomorpha	II-157
perlamellosum, Rhynchotrema	I-194	pholadiformis var. divaricata,	
pernoides, Mytilarca	II-143	Pholadomorpha	II-157
perobliqua, Lima	II-127	Phragmoceras sp.	II-245
perobliquum, Stokesoceras	II-256	phrygia, Zaphrentis aff.	I-59
perovale, Goryboceras	II-214	Phthonia sp.	II-158
perplexa, Astylospongia	I-8	Phylloblatta (?) sp.	III-120
Platyceras?	II-60	Phylloceras sp. indet.	II-320
perplexum, Centrolitoceras	II-195	Physa sp.	II-59
perplexus, Bathyrus	III-45	picea, Galerucella	III-124
perplicatus, Pachydiscus	II-316	picta, Lithortalis	III-125
perpini, Anscardioceras	II-266	pictipennis, Penthetria	III-128
perrugatus, Tomagnostus	III-32	Plecia	III-127, 128, 129, 131
perseus, Bassleroceras	II-238	pictoense, Lonsdaleia	I-65
Orthoceras	II-238	Lithostrotion	I-65
persimile, Deiroceras	II-204	Schuchertella	I-197
persimilis, Gryphaea	II-118	pictolineatum, Sactoceras?	II-252
persiphonata, Huroniella	II-238	pigmaea, Guttulina	I-2
persiphonatum, Orthoceras	II-238	pileata, Amplexi-Zaphrentis	I-61
persistens, Modiola	II-137	pileolum, Orthoceras	II-238
perspicator, Bathyrus	III-45	Pinacoceras sp.	II-320
Goniotelus	III-45, 59, 60	piochii var. russiensis, Buchia	II-93
Gonius	III-60	pinania, Oxytoma	II-150
perstriata, Helicotoma	II-27	piscator, Orthoceras	II-239
perstriatus, Oxydiscus	II-57	pisiformis, Agnostus	III-4
perstrigosa, Anomia	II-88	pisina, Rhynchotrema	I-194
pertinax, Deiroceras	II-238	placibilis, Lingula	I-160
Orthoceras	II-238	placida, Arisaigia	II-89, 111
Troedssonoceras	II-238, 258	placida var. socialis, Arisaigia	II-89
perversum, Heteroceras	II-293	placidus, Cytherodon?	II-111
pervetus ottawanus, Doleroides	I-147	Placites sp.	II-320

Plagioglypta sp.	II-3	plicata, Ischyryna	III-134
Plagiostoma sp.	II-159	Rhynchotrema	I-195
plana, Cybeloides	III-54	Technophorus	III-134
Microtrypa	I-164	plicatella laurentina, Plectorthis	I-180
planatum, Homaloceras	II-215	plicatum, Charactoceras	II-196,211
planicauda forma D. bilobatus,		Platystoma	II-61
Diplagnostus	III-14	plicatus, Eurystomites	II-211
planicostata, Conularia	II-341	Prionolobus	II-322
planidorsatum, Oncoceras	II-226	Pliomerid pygidium	III-76
planifrons, Dikelocephalus	III-13	plumosus, Ptilograptus	I-108
Lauzonella	III-13	pluto, Lituites	II-219
planimarginata, Honeymania	II-120	poecilochotomus, Homolsomites	II-295
planoconvexa, Coelospira	I-139	pogrebovi?, Asmusia	III-89
planoconvexum, Tripteroceras	II-257	polare, Catacoeloceras	II-275
planoconvexus, Microcyclus	I-54	polita, Camerella	I-136
planodorsatum var. carletonense,		politus, Chonetes	I-138
Allumettoceras	II-187	polydorus, Cheirurus	III-52
planolatere, Viviparus	II-83	polyforata, Thamnopora	I-59
planosulcata, Atrypa	I-130	Polygnathus spp.	III-140
planulata, Cypricardinia	II-105	polystomella, Constellaria	I-112
Fusispira	II-22	pompilius, Bronteus	III-48
Helicotoma	II-27	Ceraurinus	III-52
planulata var. muricata, Helicotoma ..	II-27	Cheirurus	III-52
planulatum, Desmoceras (Puzozia) ...	II-280	pomponium, Pionoceras	II-246
Haploceras	II-290	ponderosa, Cucullaea	II-103
planum, Oepikium	III-108	Cyrtodonta	II-110
planumbona, Cyrtodonta?	II-109	ponderosa var. perobliqua, Cyrtodonta ..	II-110
planumbona chambliensis, Strophomena ..	I-207	pontiamnis, Pecten	II-155
planumbona gerontica, Strophomena ...	I-207	pontoni, Inoceramus	II-124
planumbona praecipita, Strophomena ...	I-207	pontoni var. dolosoniensis, Inoceramus ..	II-124
planus, Asaphellus(?)	III-39	poolensis, Metacoscinus	I-17
Dipharus	III-14	poolii, Lithophagus	II-129
platana, Bellefontia	III-47	porcatum, Metaspyroceras?	II-221
platycephalus, Asaphus	III-40,41	porcia, Clitambonites	I-175
Platycrinites spp.	I-85	Orthis	I-175
platypleurus, Hystricurus	III-63	Ptychopleurella	I-175
platyptera, Penthetria	III-128	porifera, Rhombopora	I-124
Plecia	III-128	porosa? var. manitobensis, Polypora ..	I-121
platys, Carneyella	I-90	porrectus, Bumastus	III-48
Lebetodiscus	I-90	portana, Astarte	II-90
Multicostella	I-175	postculminata, Pleuromya	II-160
Öpikina	I-169	postica, Paraechmina	III-109
Orthis	I-175	postornata, Arisaigia	II-89
plebia, Cyrtodonta?	II-109	postplanum, Lyrodesma	II-129
Whitella	II-109	postplicata, Modiolopsis	II-135
pleiopleura, Rhynchonella	I-193	postplicatum, Orthodesma(?)	II-135
plena, Camarotoechia	I-134	poststriatum, Lyrodesma	II-130
Rostricellula	I-196	poststriatum var. elongatum,	
plenus, Bellerophon	II-9	Lyrodesma	II-130
Seymourites	II-338	poststriatus, Modiolodon	II-133
Yakounites	II-338	postumius, Cyrtoceras	II-201
pleurexanthemus, Ceraurus	III-50	Manitoulinoceras	II-201,220
Pleurotomaria sp. undet.	II-69	postvolutus, Clidophorus	II-96
Pleydellia? sp. indet.	II-321	Poterioceras sp.	II-247,248

Poteriocrinites sp.	I-85	procris, Lophospira	II-52
poulseni, Paleofavosites	I-30	Murchisonia	II-52
poulseni minor, Paleofavosites	I-43	Procrucibulum? sp.	II-70
poyana, Lima?	II-127	procurvus, Wasatchites	II-337
Mysidioptera	II-127	producta, Cypricardella	II-105
praecoquum, Sphaerium	II-172	Productella sp.	I-182
praecox, Platystrophia	I-180	productum, Kochoceras	II-217
praecursa, Campeloma	II-11	productus, Trigonodus (?)	II-176
praecursor, Corrugopora	I-37	profectus, Frogdenites?	II-285
Rafinesquina	I-188	profundum, Cyathophyllum	I-49
praedeltaoidea, Rafinesquina	I-188	Lambeophyllum	I-28
praematurum, Maelonoceras	II-245	profundus, Archaeocyathus	I-14,15
Parapopanoceras	II-318	Cambrocyathus	I-14,15
Phragmoceras	II-245	Pycnoidocyathus	I-14
praenuntia alexandria, Dekayella	I-112	progne, Lingula	I-160
praenuntia echinata, Dekayella	I-112	Liospira	II-35,66
praevolutus, Clidophorus	II-97	Pleurotomaria	II-66
Prasopora sp.	I-123	progrediens, Sphaerium	II-172
prava, Schuchertella cf. S.	I-197	prolatum, Orthodesma	II-147
prepta, Cyrtiopsis	I-142	proliferum, Lithostrotion [Diphyphyllum]	I-65
pressus, Pseudosirenites	II-329	prolifera, Gogia	I-72
Sirenites	II-329	Heterophrentis	I-59
pretiosa, Obolella	I-167	Mesotrypa	I-118
priamus, Orthoceras	II-239	Pterinea	II-167
prima, Eridotrypella	I-113	Ulrichotrypa	I-126
primaevum, Platyceras	II-60	Zaphrentis	I-59
primigenius, Didymograptus	I-99	prolificus, Cheirurus	III-52
primigenius, Tenebrio	III-133	Cydonocephalus	III-52,55
primitiva, Septopora	I-125	Paleofavosites	I-30,43
primordialis, Pelecocrinus	I-84	prolixa, Lingula	I-160
primum, Diphyphyllum	I-26	prolongatum, Streptelasma	I-33
princeps, Encrinurus	III-58	prominens, Bailiaspis	III-5
Hyolithes	II-343	prominiradiata, Pterinea	II-167
princessa, Pleurotomaria	II-66	prominulus, Cydonocephalus	III-55
Poleumita	II-66	propatoris?, Anodonta	II-87
Prionitid indet.	II-321	propinqua, Schloenbachia	II-327
prinstana, Hindella	I-152	propinquum, Harpoceras	II-291,327
prisca, Monomerella	I-165	Orthoceras	II-239
priscilla, Nodosinella	I-1	proserpina, Helicotoma	II-28
priscum, Loxonema	II-39	protea, Reesidella	II-73
priscus, Glyptocrinus	I-80	proteiforme, Endoceras	II-209
Periglyptocrinus	I-80	proteus, Ekvasophyllum	I-63
Plesielliptio	II-159	Macgeea	I-52
Trinodus	III-83	Protocardia sp. undet.	II-163
prismatica, Prasopora	I-122	Protopharetra sp.	I-18
pristiniformis, Diplograptus	I-104	Protrachyceras sp. indet.	II-323
Graptolithus	I-104	protuberans, Irvingella (Irvingellina)	III-18
pristinus, Hybocrinus	I-81	proudulata, Orthonota	II-148
proavia, Paracyclas	II-153	proutana, Holoepa	II-31
proavitus, Unio	II-178	prudentius prudentius, Viviparus	II-83
problematica, Loxopeltis	III-78	prodentius willovensis, Viviparus	II-83
proboscidiatus, Dendrocrinus	I-78	pruvosti, Palaeolimnadiopsis	III-92
Procerites? sp. indet.	II-322	pseudishmae, Cadoceras?	II-274
procerus, Gyraulus	II-25	Pseudolioceras sp. indet. B	II-324

- Psiloconcha* sp. II-165
psyche, *Polypora* I-121
 Subulites II-78
Pterinopecten sp. II-167
Pterocephalia sp. III-29
Pteronitella? sp. II-168
Pterygotus sp. 1, 2 III-88,89
Ptychospirina sp. II-71
pudica, *Cyrtodonta?* II-110
pulchella, *Hebertella* I-151
 Macrochilina II-43
 Petraia I-31
 Plectorthis I-181
 Salterella II-343
 Urasterella I-91,93
 Vanikora II-82
pulchellum, *Arthroclema* I-110
 Rhynchotrema I-195
pulchellus, *Catenipora* I-27
 Halysites I-27
 Palaeaster I-91
 Palaeocrinus I-84
 Stenaster I-91
pulcher, *Palaeocystites* I-70
pulchra, *Eobucania* II-18
 Lophospira II-37
 Penthetria III-128
 Plecia III-128,131
 Streblotrypa I-126
pulicis, *Lingula* I-160
pulla, *Penthetria* III-128
 Plecia III-127,128
pulvinatus, *Eutaxocrinus* I-79
punctalata, *Stenecphora* III-132
punctata, *Anatina* II-86
 " *Ctenobolbina* " III-99
 Haploprimitia III-102
punctatus, *Camarocystites* I-73
 Eodiscus III-16
 Gonioteloides III-59
punctifrons, *Bucania* II-9
punctillosa, *Kloedinia* III-104
punctobrachiata, *Arthrocantha* I-75
punctolineata, *Parabolinella?* III-24
punctostriata, *Sowerbyella* I-197
punctostriatus-quincuncialis,
 Technophorus III-134
punctuosus, *Ptychagnostus* III-29
pungens major, *Climacograptus* I-95
Pupa sp. indet. II-71
purcellensis, *Ajacycyathus* I-12
pusilla, *Ceratiocaris* III-114
 Cinula II-12
pusillus, *Bryograptus* I-94
pustulosa, *Beyrichia* (*Nodibeyrichia*) III-96
pustulosus, *Plagionephrodes* III-109
pygmaeus, *Macrodon* II-130
pylades, *Orthoceras* II-239
pyrami, *Thisbites* II-334
pyramidale, *Goniophyllum* I-40
pyramidata, *Kullervo* I-153
pyrene, *Holopea* II-31
pyriformis, *Archaeocrinus* I-87
 Rhodocrinus I-87
 Thysanocrinus [*Rhodocrinus*] I-87
pyriformis var. *dunveganensis*, *Corbula* II-100
pyrrha, *Camarotoechia* I-193
 Rhynchonella I-193
python, *Deiroceras* II-239
 Orthoceras II-239
pyxidata, *Pseudolingula* I-183

quadra, *Propebela* II-70
quadrangularis, *Dictyonema* I-98
quadrata, *Dunderbergia*
 (*Megadunderbergia*) III-15
 Parabolinella(?) III-24
 Peronopsis III-26
 Rhombotrypa I-124
quadratum, *Leiostegium* III-70
quadratus, *Bathyrus* III-45
 Climacoconus II-340
quadribrachiatus, *Graptolithus* I-104
quadrifida, *Beyrichia* III-96
quadrilirata var. *simplex*, *Strepula* III-112
quadrimumcronatus, *Glossograptus* I-100,104
 Graptolithus I-104
quatsinoensis, *Inoceramus* II-124
 Olcostephanus II-313
quebecense, *Apsidoceras* II-189
 Cyrtoceras II-201
 Quebecoceras II-201,250
quebecensis, *Anastomopora* I-110
 Catenipora I-110
 Diplotrypa I-112
 Lingula I-160
 Loganellus III-22
 Metoptoma II-47
 Pleurotomaria II-66
 Quepora I-27,32
quercera, *Lingula?* I-160
quesneli, *Lachnus* III-125
 Sbenaphis III-125
quincuncialis, *Technophorus* III-134
quinquepartitus, *Glyptocrinus* I-80
quinquesinuatum, *Platyceras* II-60

racemosum, Tetradium	I-34
radians, Xenodiscoides	II-338
radiata, Ambonychia	II-86
Byssonychia	II-94
Spirifera	I-200
radiata var. walkeri, Byssonychia	II-94
radiatulus, Acroloxus	II-6
radiatus, Amygdalocystites	I-73
Carabocrinus	I-75
Protopliomerops	III-77
Spirifer	I-199
radiireticulata, Strophomena	I-208
rallus, Climaconus	II-340
ramata, Guhsania	II-288
ramosa, Aulocystis	I-57
Raemia [Roemia?]	I-57
Thresherodiscus	I-90
ramosum, Allorhynchus	I-128
Neophylloceras	II-312
ramosus, Dicranograptus	I-104
Graptolithus	I-104
ramsayi, Pleurotomaria	II-67
ramseyi, Euconia	II-67
ramulosus, Glyptocrinus	I-80
ramulus, Graptolithus	I-104
Temnograptus	I-104
rankiniana, Carbonita	III-98
rapax, Endoceras	II-210, 239
Orthoceras	II-239
Raphistoma sp.	II-72
raptor, Armenoceras	II-239
Orthoceras	II-239
raricostata, Surcula	II-79
rarus, Bathyurellus	III-42
Dolichometopus?	III-57
Gonionotites	II-287, 302
Juvavites (Gonionotites)	II-302
ratum, Ethmophyllum	I-17
raymondi, Conularina	II-342
Euestheria	III-91
Zygospira	I-215
raynoldsanus, Viviparus	II-83
Receptaculites sp.	III-144
recta, Rhytimya	II-169
recta var. borealis, Gervillia	II-114
rectistriata, Velatella	II-82
rectum, Streptelasma	I-58
rectus, Protistograptus	I-109
Zaphrentis	I-46
recurvatus, Paltodus	III-140
recurvirostris, Zygospira	I-215
recurvirostris aequivalvis, Zygospira	I-215
Redlichia? sp.	III-30
redrockensis, Dolerorthis	I-147
reducta, Penthetria	III-128
Plecia	III-128, 131
reedi, Eobronteus	III-58
reedsii, Amphicyrtoceras	II-188
reginae, Belinurus	III-85
regius, Cleiocrinus	I-76
regleyi, Tmetoceras	II-334
regnelli, Glyptocystites	I-69
regulare, Clathrodictyon	I-22
Cyrtocheras	II-201
Loganoceras	II-198, 201
regularis, Cardinia	II-95
Dinorthis	I-146
Diplotrypa	I-113
Monograptus	I-106
Subulites	II-78
remipes, Eurypteris	III-88
remipes quebecensis, Eurypteris	III-88
remondi, Ancyloceras	II-267
Remopleurides sp. indet.	III-78
remota, Grammysia	II-117
Stromatoporella	I-23
remotistriata, Eotomaria	II-19
remotus, Megadiscosorus	II-221
remus, Orthoceras	II-240
repens, Aulopora	I-48
Orthoceras	II-240
Protocycloceras	II-240
requienianus?, Sphenodiscus	II-331
resseri, Bellaspidella	III-7
Ctenocephalus	III-11
Oryctocephalites	III-23
recupinata, Dalmanella	I-143
reticularis, Atrypa	I-130
reticulata, Cladopora	I-36
Libumella	III-107
Quasillites	III-111
Scenella	II-5
reticulatum, Prismatophyllum	I-57
reticulatus, Protypus	III-28
Pseudatops	III-28
“reticulatus”, Glyptagnostus	III-17
retifera, Kloedenia	III-104
retiformis, Syringopora	I-45
retiostrata, Buchiola	II-93
retusus, Viviparus	II-83
revelata, Sciomyza	III-132
reversa, Parastrophia	I-176
Sansabella	III-111
reversatum, Kindleoceras	II-216
reversus, Pentamerus	I-177
rex, Condylopyge	III-9
rhabdota, Corrogopora	I-36
Rhacophyllites sp.	II-326

- rhombiferus*, *Palaeocrinus* I-84
rhomboidalis, *Leptaena* I-154
rhomboidea, *Modiolopsis* II-136
rhomboidea var. *eurymellaformis*,
Modiolopsis II-136
rhomboidea var. *subnasuta*,
Modiolopsis II-136
ribstonensis, *Trochammina* I-7
ricei, *Aplexa* II-7
richardsoni, *Actinoceras* II-187
Ajathophyllum I-50
Anisograptus I-94
Armenoceras II-187
Bonnia III-8
Endoceras? II-210
Eopteria III-133
Graptolithus I-104
Holograptus I-104
Homalopsis III-115
Jovites II-299
Mictophyllum I-50
Spirifera (*Martinia*) I-200
Subulites II-78
Zemistephanus II-265,339
richardsoni var. *canadensis*,
Drepanella III-100
richardsonii, *Ammonites* II-265
richmondensis, *Byssonychia* II-94
Protarea I-31
richmondensis *papillata*, *Protarea* I-31
riciniformis, *Lingula* I-161
rideauense, *Allumettoceras* II-187
Metaspyroceras II-221
rierdonense, *Warrenoceras* II-336
rigidula, *Lima* (*Plagiostoma*) sp. near II-128
rigidus, *Clonograptus* I-105
Cryptograptus I-96
Graptolithus I-105
Palasterina I-91
Petraster I-91
Rizoceras (?) sp. II-251
rivus, *Crepicephalus* III-11
robertsoni, *Plectoceras* II-246
Xenoceltites II-337
robsonensis, *Paedeumias* III-23
Robsonoceras sp. II-251
robusta, *Dictyonema* I-98
Lingukainella III-72
Megalomphala II-44
Palliseria II-58
Rafinesquina I-188
Sphaerocorphe III-80
Striatopora I-44
Terebratula I-210
robustum, *Blakeoceras* II-194
Stikinoceras II-332
Streptelasma I-33
robustum, *Brachyprion* I-132
Catenipora I-28
Halysites I-28
Plethopeltis III-28
Pleurocystites I-71
Ponteixites II-321
Prininocrinus I-85
rochensis, *Cryptophragmus?* I-22
rocklandensis, *Cyrtodonta* II-110
Dianulites I-112
Eridorthis I-149
rocklandia, *Modiolopsis* II-136
rockymontana, *Gryphaea* II-118
Thomasaria I-210
rockymontanum, *Loxonema* II-39
rockymontanus, *Kepplerites* II-304
Spirifer I-199
rockymountana, *Dinorthis* I-146
roemeri, *Alveolites* I-47
Cladopora I-47
Elvinia III-15
Eospongia I-9
rogata, *Dalmanella* I-143
romingeri, *Stokesoceras* II-256
romunduri, *Euflemingites* II-283
rosamontana, *Trigonoglossa* I-211
rosieranus, *Radiograptus* I-109
rosii, *Modiolus* II-137
rostellata, *Nuculana* cf. II-145
rostrata, *Athyris*(?) I-129
Charionella I-129
rostratus, *Goniotelus* III-60
rotuloides *magnus*, *Palaeocyclus* I-42
rotunda, *Eotomaria* II-19
Rafinesquina I-188
rotundata, *Glypterpes* II-23
Gresslya II-118
Maclurea II-42
Strophomena I-208
Vanuxemia II-180
rotundatus, *Apatokephaloides* III-5
Synaptocrinus I-87
rotundifrons, *Cyclognathus* III-54
rotundispira, *Pleurotomaria* II-67
rougense, *Cyrtorizoceras* II-204
rowleyi, *Spirifer* I-199
rubra, *Catenipora* I-25
ruda, *Modiolopsis* II-134
rudis, *Edmondia* II-112
ruedemanni, *Actinoceras* II-187
rugata, *Strophomena* I-208

rugacosta, Delthyris	I-144	Stenaster	I-92
rugatula, Zaphrentis	I-60	Stricklandinia	I-202
rugosa, Columnaria	I-30	salteri var. canadensis, Hormotoma ...	II-50
Cytodonta	II-110	salteri var. ottawaensis, Hormotoma ...	II-32
Haplophragmoides	I-6	salteri striatus, Callograptus	I-95
Öpikina	I-189	salteriana, Candona	III-98
Palasterina	I-92	sancta, Stephanella	I-11
Petroria	I-177	sanctamariensis, Goniobasis	II-24
Rafinesquina	I-189	Lioplacodes	II-35
Salterella	II-343	sandersoni, Unio	II-178
rugosa avita, Öpikina	I-189	sandlingensis, Discotropites	II-281
Rafinesquina	I-189	Sandlingites? sp.	II-326
rugosum, Loxonema(?)	II-39	Sanguinolites? sp.	II-170
Palaeophyllum	I-30	sardesoni, Rafinesquina	I-189
Stromatocerium	I-23	sarsiana, Pecten?	II-155
rugosum tumidum, Stromatocerium	I-20	sarsianus, Pecten	II-155
rugosus, Hudsonaster	I-92	sarthacencis, Lenticulina	I-2
rugosus manitoulinensis, Plectambonites	I-180	saskatchewanensis, Inoceramus	II-124
rugulosus, Paradoxides	III-25	Stagnicola	II-40
ruida, Dalmanella	I-175	sasuchan, Pecten	II-155
Orthis	I-175	satyrus, Cheirurus	III-52
rundlensis, Spirifer	I-199	saxarubrensis, Physa	II-59
russelli, Anguispira	II-7	saxea, Pimpla	III-129
Ostrea	II-149	saxigena, Buprestis	III-122
rustica, Grammysia	II-117	saxitilis, 'Cardium'?	II-95
Ptilodictya	I-124	saxitoniana, Ostrea	II-149
rusticum, Dictyonema	I-98	saxosum, Armenoceras	II-191
Streptelasma	I-33	sayi, Orthoceras	II-240
rusticus, Tricrepecephalus	III-33	Pachendoceras?	II-240
rutherfordi, Dimorphoptychia	II-17	scabiosa, Petigopora	I-120
Drepanites	II-283	scalare, Diestoceras	II-206
Inoceramus	II-124	scalariforme, Oncoceras?	II-226
Platyrachella	I-178	scalpellus, Carbonita	III-98
rutilius, Ampyx	III-38	scalpra, Modiola aff.	II-138
		scanicus, Eodiscus	III-16
		scapha var. brevior, Cuneamya	II-104
		scaphoides, Primitia	III-110
		scarabaeoides, Peltura	III-26
sabinei, Mesidotea	III-116	Schizophoria sp.	I-196
Sactoceras (?) sp.	II-252	schlotheimi, Remopleurides?	III-78
sacya, Lytoceras	II-308	Schlotheimia sp. indet.	II-328
saffordi, Bathyrus	III-46	schoolerensis, Juvavites	II-302
Lingukainella	III-72	schooleri, Isculites	II-298
Lloydia	III-46	schooleri var. parvus, Isculites	II-298
Lophospira	II-38	schucherti, Polypora	I-121
Sagenites sp.	II-326	Prismatophyllum	I-57
sagittaformis, Bolla	III-96	Protocardia	II-163
salinensis, Conularia	II-341	schuchertiana, (Blattoidea)	III-120
salissiensis, Elliptio	II-113	scipionianum, Agassicerias	II-263
salmoni, Öpikinella	I-170	scitula, Primitia	III-110
Rafinesquina	I-189	Yoldia	II-184
salteri, Amphion	III-37	scofieldi, Geisonoceras	II-212
Callograptus	I-94	Whitella	II-182
Sphaerocoryphe	III-80	scotica canadensis, Siphonotreta	I-197

scotoburdigalensis?, Paraparchites . . . III-109
 Scrobicula sp. III-111
 scrobiculus, Cydonocephalus III-55
 scrutator, Nileus III-74
 scrutatum, Sactoceras II-252
 sculptilis, Spirifera I-200
 sculptura, Dizygopleura III-99
 scutalis, Peronopsis (Acadagnostus) . . III-26
 scutiformis pinensis, Monotis II-140
 scutulata, Littorina II-36
 scutum, Lingula I-161
 scylla, Vermiceras II-335
 scymmus, Lingula I-161
 secans, Carbonita III-98
 secundus, Perimetopus III-31
 securiformis, Whitella II-182
 sedgwicki, Armenoceras II-240
 Menocephalus III-21
 "Menoccephalus" III-21
 Onchonotus? III-23
 Orthoceras II-240
 seelyi, Centrotarphyceras II-195
 selecta, Pleurotomaria II-67
 Saukiella III-14
 selectus, Dikelocephalus III-14
 selkirkense, Cycloceras II-240
 Orthoceras II-240
 selkirkensis, Mesotrypa I-19
 sella, Meekia II-156
 selwini, Orthoceras II-240
 selwyni, Arcestes? II-268
 Cercopsis III-123
 Inoceramus II-125
 Juvavites II-302
 Neogastrolites II-273
 Nitanoceras II-268,313
 Parapopanoceras II-318
 Prasoparina I-123
 selwyniana, Schluteria II-265,328
 selwynianus, Ammonites II-265
 selwynii, Leperditia III-107
 semicarinata, Cyclonema II-14
 semicarinated, Gyronema II-14
 semicircularis, Lima (Plagiostoma)
 sp. near II-128
 Rafinesquina I-189
 semicircularis minor, Rafinesquina . . . I-189
 semicoalita, Serpula III-137
 semicostatus, Ampyx III-38
 Trochactaeon II-79
 semicubulus, Productus
 (Linoproductus) I-182
 semidilatatum, Mictophyllum I-55
 semiglabra, Leonaspis III-71

semiglobosus, Homerites II-295
 semioculata, Prasoparina I-123
 semiornata, Eponides I-1
 semiplanata, Thracia II-174
 semiplanatum, Garryoceras II-241
 Orthoceras II-241
 semipolita, Discina I-149
 semiradiata, Anatina (Cercomya) II-86
 Phthonia? II-158
 semiseptatum, Spongophyllum I-58
 senaria, Flexicalymene III-59
 senecta, Bonnia III-6
 Pimpla III-129
 senectus, Bathyuriscus III-6
 Unio II-179
 senescens, Lonchaea III-125
 "Polymorphites" II-321
 senilis, Heteromyza III-125
 senticosus, Sirenites II-330
 separanda, Penthetria III-129
 sepositus, Phaseolops III-75
 septata, Huronia II-216
 septata borealis, Öpikina I-169
 septentrionale, Manticoceras II-309
 septentrionalis, Ambonychia II-86
 Maclurites? II-43
 Oxytoma II-151
 Reticularia I-190
 septentrionis, Cyrtodonta II-110
 sepulta, Boletina III-122
 Buprestis III-123
 sera, Platystrophia I-180
 seriatus, "Angustidatus" III-86
 sericea, Trichospongia I-11
 Sowerbyella I-197
 serpularius, Cornulites III-135
 serra, Tetragraptus I-101
 serratostriata, Entomis III-100
 serratus, Olenoides III-33
 serricata, Axinopsida II-92
 Serrodiscus sp. III-31
 serrulata, Lophospira II-52
 Murchisonia II-52
 servile, Orthoceras II-241
 sesostris, Dikelocephalus III-14
 Pseudosaukia III-14
 severnensis, Amplexoides I-35
 seversoni, Paraichthyocrinus I-84
 sexcarinata, Tetrannota II-79
 shallopensis, Amphilichas III-36
 shamattawaense, Antipletocheras . . . II-188
 shelbiensis, Bellerophon II-10
 shermanense, Hemiphragma I-117
 shimeri, Camarotoechia I-134

shubencadiensis, <i>Leptodesma</i> ?	II-126	<i>Pleuromya</i>	II-161
shulapsensis, <i>Mytilus</i> ?	II-143	<i>Pseudamussium</i>	II-164
shumardi, <i>Orthoceras</i>	II-241	<i>Richardsonoceras</i>	II-202, 250
<i>Turbo</i>	II-81	<i>simplex</i> var. <i>paquettensis</i> , <i>Hormotoma</i>	II-32
<i>Zaohrentis</i>	I-60	<i>simplicem</i> , <i>Actinoceras</i>	II-185
<i>Shumardia</i> sp.	III-79	<i>simpsoni</i> , <i>Nartheoceras</i>	II-223
<i>sieboldi</i> , <i>Ephippiorthoceras</i>	II-240	<i>simulans</i> , <i>Orthonota</i>	II-148
<i>Orthoceras</i>	II-240	<i>simulator</i> , <i>Iliaenus</i>	III-66
<i>sigillariae</i> , <i>Xylobius</i>	III-119	<i>simulatrix</i> , <i>Murchisonia</i>	II-52
<i>sigmoidea</i> , <i>Whitella</i>	II-182	<i>Panopaea</i>	II-152
<i>sikanianum</i> , <i>Protrachyceras</i>	II-323	<i>simulatrix orientalis</i> , <i>Prasopora</i>	I-122
<i>sikanianum</i> var. <i>zauwae</i> ,		<i>sinclairensis</i> , <i>Raphistomina</i>	II-72
<i>Protrachyceras</i>	II-323	<i>sinclairensis</i> var. <i>acuta</i> , <i>Raphistomina</i>	II-72
<i>sikanianus</i> , <i>Protrachyceras</i>	II-323	<i>sinclairi</i> , <i>Diestoceras</i>	II-206
<i>sikanianus</i> var. <i>zauwae</i> ,		<i>Endodesma</i>	II-113
<i>Protrachyceras</i>	II-323	<i>Lingula</i>	I-161
<i>sikanni</i> , <i>Pleuromya</i>	II-161	<i>Öpikina</i>	I-169
<i>silentiana</i> , <i>Myophoria</i>	II-142	<i>Ottawella</i>	III-139
<i>silentiana</i> var. <i>placida</i> , <i>Myophoria</i>	II-142	<i>Prasopora</i>	I-122
<i>silentiana</i> var. <i>schooleri</i> , <i>Myophoria</i>	II-142	<i>Vellamo</i>	I-213
<i>silentiensis</i> , <i>Lophidiaster</i>	I-90	<i>Vogdesia</i>	III-84
<i>Modiolus</i>	II-138	<i>sineus</i> , <i>Parathisbites</i>	II-318
<i>Pecten</i>	II-156	<i>sinuata</i> , <i>Rafinesquina</i>	I-189
<i>silicula</i> , <i>Ctenodonta</i>	II-103	<i>sinuata</i> var. <i>borealis</i> , <i>Psiloconcha</i>	II-164
<i>siliqua</i> , <i>Cytherellina</i>	III-99	<i>sinuatis</i> , <i>Plectrothis</i> ?	I-181
<i>sillana</i> , <i>Odostomia</i> ("Amaura")	II-55	<i>sinuatum</i> , <i>Cyrtoceras</i>	II-202
<i>silurica</i> , <i>Leaia</i>	III-91	<i>Zitteloceras</i> (?)	II-202
<i>silvana</i> , <i>Coenothyris</i>	I-140	<i>sinuatus</i> , <i>Aparchites</i>	III-94, 97
<i>silvancendatus</i> , <i>Thlipsnephrodes</i>	III-112	<i>Arabellites</i>	III-135
<i>silveria</i> , <i>Sonninites</i>	II-330	<i>Microcyclus</i> (?)	I-54
<i>simcoense</i> , <i>Actinophyllum</i>	I-51	<i>Probillingsites</i>	II-248
<i>Diphyphyllum</i>	I-51	<i>sinuiferum</i> , <i>Alpenoceras</i>	II-200
<i>simulator</i> , <i>Dunderbergia</i> (<i>Megadunderbergia</i>)	III-15	<i>sinuosum</i> , <i>Diphyphyllum</i>	I-63, 64
<i>similis</i> , <i>Cruziana</i>	III-142	<i>Manticoceras</i>	II-286
<i>Dendrocrinus</i>	I-78	<i>sinuosus</i> , <i>Leptaena</i>	I-154
<i>Didymograptus</i>	I-105	<i>sipo</i> , <i>Acrotreta</i>	I-127
<i>Graptolithus</i>	I-105	<i>siskiyouensis</i> , <i>Modiola</i>	II-138
<i>Homotrypa</i>	I-118	<i>skapta</i> , <i>Onchocephalus</i>	III-22
<i>Iocrinus</i>	I-78	<i>skawaki</i> , <i>Sonninites</i>	II-330
<i>Phyllograptus</i>	I-107	<i>skeadensis</i> , <i>Vanuxemia</i>	II-180
<i>Prasopora</i>	I-122	<i>skidegatense</i> , <i>Cerithium</i>	II-11
<i>Tetragraptus</i>	I-101	<i>Stephanoceras</i>	II-265
<i>similkameena</i> , <i>Penthetria</i>	III-129	<i>Stephanoceras ex gr.</i>	II-332
<i>Plecia</i>	III-129, 131	<i>skidegatense</i> var. <i>laperousii</i> ,	
<i>simillima</i> , <i>Arca</i> (<i>Nemodon</i>)	II-144	<i>Stephanoceras</i>	II-332
<i>Paralleledon</i>		<i>skidegatensis</i> , <i>Ammonites</i>	II-265
(<i>Gilberwhitea</i>)	II-144, 154	<i>Melina</i>	II-132
<i>simon</i> , <i>Lioestheria</i> (?)	III-92	<i>Ostrea</i>	II-149
<i>simplex</i> , <i>Anguispira</i>	II-7	<i>Tellina</i>	II-173
<i>Cyrtoceras</i>	II-202	<i>skidigatensis</i> , <i>Terebratula</i>	I-210
<i>Cyrtodonta</i>	II-110	<i>slavense</i> , <i>Orthoceras</i> (?)	II-243
<i>Hormotoma</i>	II-32	<i>smithi</i> , <i>Porocrinus</i>	I-85
<i>Metoptoma</i>	II-47	<i>smithii</i> , <i>Bathyurus</i>	III-46
		<i>Dimeropyge</i>	III-46

Haploconus III-60
 snaringensis, Greenockia I-150
 sociale, Michelinoceras? II-222
 socialis, Agraulos III-4
 Cytherodon? II-112
 sol, Cheirurus III-53
 Heliomera III-53
 sola, Hendersonia II-215
 Liskeardia II-215
 Orthis I-175
 Rhipidomella I-175
 solarioides, Pycnomphalus II-71
 solaroides, Pleurotomaria II-67
 Solecurtus? (Azor?) sp. II-170
 solidula, Lacuna II-34
 solidus, Clauruscyathus I-15
 solitaria, Athyris I-129
 Idiorhapha III-53,63
 Whitfieldella? I-129
 solitarium, Cyathophyllum I-38
 solitarius, Cheirurus III-53
 soluta, Murchisonia II-52
 solutus, Loxoplocus II-39,52,53
 Sonnina sp. indet. II-330
 soperi, Salpingostoma II-74
 sordida, Leptaena I-154
 Leptella I-154,155
 sordidum, Catoraphiceras II-241
 Orthoceras II-241
 sororcula, Murchisonia II-52
 sorrocula, Conularia II-341
 southamptonense, Armenoceras II-190
 Lowoceras II-220
 southworthi, Microcyclus I-54
 sparsa, Marginulina I-3
 sparsus, Heliolites I-41
 spasskensoides, Aucella II-91
 spathi, Prospingites II-323
 Spathiocaris? sp. (telson) III-118
 Spathognathodus sp. III-141
 spatiosa, Heterophrentis I-60
 Zaphrentis I-60
 speciosa, Grammysia? II-148
 Lyellia I-28
 Maclurea II-42
 Orthonota? II-148
 speciosum, Eunema II-20
 Gyronema II-26
 speciosus, Heliolites I-28
 spenceri, Cyathophyllum I-50
 Pleurotomaria II-67
 Sphaerocoryphe sp. III-80
 sphaeroidalis, Probillingsites II-248
 Sphaerum sp. II-172

spicata, Cybele III-54
 Homotrypella I-118
 Symphysurina III-81
 Symphysurina (Symphysurina) III-81
 spicata var. eugenia, Symphysurina
 (Symphysurina) III-81
 spiculatus, Illaenus III-66
 spiekeri, Gastroplites II-286
 Gonionotites II-303
 Juvavites (Gonionotites) ... II-303
 Paragastroplites II-286
 spinatum, Coeloceras II-276
 spinifera, Cyrtodonta II-111
 Symphysops III-80
 spiniferum, Acanthoceras II-263,266
 spiniger, Bathyrurus III-46
 spinigera, Condylopyge III-9
 spinigerus, Ollacrinus I-84
 spinobrachiatus, Decadocrinus I-77
 spinocarinata, Productus (Avonia) ... I-182
 spinosa, Clausotrypa I-111
 Helicotoma II-28
 Palaecoma I-91
 Paraechmina III-109
 spinosum, Toricellites? II-334
 spinosus, Didymograptus I-99
 Protaster (Taeniaster) I-91
 Taeniaster I-91
 Triarthrus III-83
 spinulicosta, Productella I-181
 spinulosa, Parabolina III-23
 spirolobus, Proclydonautilus II-249
 spitzia, Pseudocolumna II-70
 spivaki, Hollandites? II-295
 splendens, Dictyonema I-98
 Serpulites III-137
 splendida, Conularia II-341
 sponsa, Pleurotomaria II-67
 sprengi, Palaeochinus I-93
 springhillensis, Amynilyspes III-119
 sprouli, Corbula II-100
 Spyrocera sp. II-255
 squamosa robusta, Pleurocystis I-71
 squamosus, Pleurocystites I-71
 squamula, Pisidium II-159
 stachei, Claraia II-96
 stali, Hygotrechus III-125
 Telmatrechus III-125
 stamineum, Raphistoma II-62,63,66
 standlyensis, Cyrtia I-142
 stantoni, Gastroplites II-286
 Gervillia II-115
 Lima II-128
 Neocraspidites II-311

Unio	II-179	striatulus, Remopleurides	III-78
statluensis, Haidaia	II-119	striatum, Codoncheilus	II-13
stefanssoni, Amnicola	II-7	Neumatoceras	II-224
Steinmannites sp.	II-331	striatus, Dendrograptus	I-94,95
stelcki, Comptonia	I-90	Palaeocrinus	I-84
Daphnites (Phormedites?) ..	II-279	strigata, Composita	I-140
Hypisculites	II-279	strigatus, Proptychites	II-322
Tancredia	II-172	strigillata, Eunema	II-20
Thracia	II-174	strigillatum, Eunema	II-19
stellare, Asteroceras	II-272	striolatus, Microcyclus	I-54
stellaris, Reteocrinus	I-86	Stromatoporella sp.	I-23
stellata, Evactinopora?	I-113	stummi, Mystrocephala	III-73
Palasterina	I-92	stygia, Ceratiocaris	III-114
Schuchertia	I-92	subaculeatus, Dolatocrinus	I-78
stenoptera, Anchura	II-7	subacutirostris, Lingula	I-161
stenorachis, Kainella	III-69	subaequata, Bollia	III-96
stenorachis, Ptychagnostus (Tri- plagnostus)	III-29	subangulata, Cyrtodonta	II-111
Stephanoceras sp. indet.	II-332	subangulatum, Cyclonema?	II-15
stewartae, Tetrasacculus	III-112	subannulatum, Centrocytoceras	II-195
stewarti, Fistulipora	I-115	subarctica, Fenestella	I-114
Ortonella (?)	II-148	subarcatum, Rudolfoceras	II-251
stigmosa, Bucania	II-10	subarmatum, Peronoceras	II-319
stiliformis, Nuculites	II-146	subbrevis var. obesa, Fusispira	II-23
stokesi, Diphyphyllum	I-26	subcamerata, Rafinesquina	I-189
Ptychophyllum	I-44	subcarinata, Cyrtodonta	II-111
Zaphrentis	I-46	Whitella	II-183
stokesiana, Pleurotomaria	II-67	subcarinatum, Orthodesma?	II-147
stoliczkanus var. spiniferus, Ammonites	II-266	subcircularis, Cyclus	III-85
stonehouseensis, Pterinea	II-167	Hollinella	III-102
stonewallensis, Öpikina?	I-169	Monotis	II-140
storeya, Dalmanella	I-144	Pseudomonotis	II-164
stramineum, Actinophyllum	I-51	subclavata, Keithiella	III-5
Diphyphyllum	I-51	subclavatus, Arionellus	III-5
Diphyphyllum [Synaptophyllum]	I-51	subcompressa, Pleuromya	II-161
strathmoria, Dinorthis	I-146	subcompressa var. laevigata, Pleuromya	II-161
strelensis, Actinocamax	II-261	subcompressum, Anisoceras	II-267
strenua, Psephosthenaspis	III-46,77	Diplomeceras(?)	II-281
Strenuella	III-32	subconica, Clathrospira	II-12
strenuus, Agraulos	III-4	Pleurotomaria	II-67
Bathyrus	III-46	subcostata, Macrochilina	II-43
striata, Bythopora	I-111	subcostulatum, Barrandeoceras	II-192
Lioestheria	III-92	subcrassus, Iocrinus	I-83
Modiolopsis	II-136	subcylindracea, Anatina	II-87
Pterinea (?)	II-136	Hydrobia	II-34
Strophonella	I-209	subcylindrica, Labechia	I-22
striatellum, Clathrodictyon	I-22	Leperditia	III-107
striatogranulatus, Sanguinolites	II-169	subdecussata, Spirifera	I-200
striatomarginata, Eurychilina (?)	III-101	subelliptica, Spathella	II-171
striatopora, Helopora	I-117	suberecta, Vanuxemia	II-181
striatoporus, Thamniscus	I-117	subevolutus, Xenoceltites	II-337
striatula, Protocardia	II-163	subfasciculatus, Productus	I-183
		subfusiforme, Deiroceras	II-205
		subfusiformis, Fusispira	II-23

subfusiformis var. germana, *Fusispira* . II-23
 subgeniculatus, *Helictites* II-292
 subglabrum, *Spyroceras*? II-255
 subglobosum, *Diestoceras* II-206
 subglobosus, *Scaphites* II-327
 subgracile, *Gomphoceras* II-213
 Mandaloceras II-213
 subinterruptus, *Juvavites* II-303
 sublaevis, *Cornulites* (*Ortonis*) III-135
 sublunatus, *Leodicites* III-136
 submamillatum, *Gyroceras* II-215
 submccconnelli, *Oxytoma* II-151
 subobesus, *Agnostus* III-35
 Geragnostus III-35
 suborbiculatum, *Periploma* II-157
 subovalis, *Panopaea* II-152
 Psiloconcha II-164
 Sowerbyella I-198
 subovata, *Ctenodonta* II-103
 Kefersteinia II-131
 subovatus, *Megolodon* II-131
 subparallela, *Bairdia* III-94
 subplana, *Orbiculoidea* I-170, 171
 subplanus, *Cyrtolites* II-16
 subprimaevus, *Unio* II-179
 subquadrata, *Cyrtodonta*? II-111
 Dinorthis I-146
 Orthis I-146, 175
 Protocardia II-163
 subquadratus, *Aviculopecten* II-92
 Protopliomerops III-77
 subrecta, *Zaphrentis* I-60
 subrhomboidea, *Leptodesma* II-126
 subrotunda, *Archinacella* II-4
 subsimile, *Protocardia* II-163
 subspatulatus, *Fusconaia* II-114
 subspinosum, *Eunema* II-20
 substabilis, *Hypseloconus* II-34
 subtilistriatus, *Melocrinus* I-83
 subtortuosa, *Goniobasis* II-24
 subtortuosa mut. *tenuis*, *Goniobasis* II-24
 subtrapeziformis, *Cyprina* II-106
 subtriangularis, *Öpikina* I-170
 subtrigonalis, *Eichwaldia* I-148
 Euomphalus (*circularis*?
 var.) II-20
 Rafinesquina I-190
 Straparolus (*Straparolus*) II-76
 subtruncata, *Thracia* II-174
 Whitella II-183
 subturbinatum, *Cyrtoceras* II-202
 Minganoceras II-202
 subula, *Carbonita* III-98
 subulata, *Hormotoma* II-32

subumbilicata, *Valvata* II-82
 subundata, *Clionychia* II-97
 suciense, *Laevicardium* II-125
 Mesostoma II-45
 suciensis, *Cuspidaria* II-104
 Cypraea II-15
 Lima II-128
 Lysis II-40, 75
 Nautilus II-310
 Pachydiscus II-316
 Rhynchonella I-183
 Stomatia II-75
 Surcula II-79
 suciensis var. *carinifera*, *Lysis* II-40, 75
 Stomatia II-75
 suessi, *Paracochloceras* II-58
 Rhabdoceras II-325
 sulcata, *Holtedahlina* I-208
 Kaninia II-18, 19
 Ptilodictya I-124
 Strophomena I-208
 Whitfieldella I-214
 sulcata moniquensis, *Holtedahlina* I-152
 sulcatina, *Anatina* II-87
 sulcatum, *Chonophyllum*? I-50
 Cyclonema II-15
 Cystiphyllum I-50
 sulcatus, *Polytropis* II-70
 sulcosutra, *Melocrinus* I-83
 sulfuriensis, *Unio* (*Elliptio*) II-179
 sullivanti, *Eunella* I-210
 Terebratula I-210
 summissionata, *Pleuromya* II-161
 sunwaptaensis, *Platycrinites* I-85
 superba, *Ambonychia* II-86
 Amplexopora I-110
 Clionychia (?) II-86
 Lyellia I-126
 Macroscenella II-47
 Metoptoma II-47
 Phaenopora I-124
 Ptilodictya I-124
 Spirifera I-200
 Trematopora I-126
 superbus, *Bathyurus* III-46
 Ecculiomphalus II-18
 Lichas III-71
 supracingulata, *Pleurotomaria* II-68
 supragibbosus, *Unio* II-179
 susae, *Onchometopus* III-74
 sussexensis, *Kloedenia* III-95
 sustutensis, *Tabulipora* I-126
 sutherlandi, *Paratrachyceras* II-319
 Probillingsites II-249

- suttonense, *Dielasma* I-145
suttonensis, *Calamophyllia* I-67
 Choristoceras II-276
 Myophoria II-142
 Terebratula I-210
sverdrupi, *Paranorites* II-317
swartzi, *Bythocypris* III-97
sybellina, *Lophospira* II-68
sybillina, *Pleurotomaria* II-68
sylpha, *Maclurea* II-42
sylvania, *Murchisonia* II-52
symmetrica, *Dizygopleura* III-100
symmetrica var. *lata*, *Halobia* II-119
symmetricus, *Neozaphrentis* I-42
Symphysurina 'a', 'b' sp. III-81
Syntrophina sp. I-209
syphax, *Cyrtoceras* II-202
 Eremoceras II-202
Syringocyathus sp. I-18
syringoporoides, *Tetradium* I-34
- taeniola, *Lingula* I-161
tamarackensis, *Clidophorus* II-97
 Rhynchotrema I-195
tarda, *Ptilodictya* I-124
tardifi lambtonensis, *Stropheodonta*
 (*Leptostrophia*) I-203
tardiformis, *Trinodus* III-83
tardus, *Anawasatchites* II-267
 Wasatchites II-267,337
tarquinius, *Cheirus* III-53
tasgina, *Viviparus* II-83
tatandukensis, *Symphysurina*
 (*Symphysurina*) III-81
taylori, *Amplexi-Zaphrentis* I-61
tectiformis, *Pseudophorus* II-70
tecumseth, *Apiocystites* I-68
 Brockocystis I-68
tenella, *Asmussia* III-89
tenellus, *Paradoxides* III-25
tener, *Allumettoceras* II-241
 Dendrocrinus I-78
 Matheria II-131
 Orthoceras II-241
tentaculatus, *Graptolithus* I-105
 Retiograptus I-105,108
Tentaculites sp. II-344
tentor, *Eretmocrinus* I-79
tenuicarinata, *Goniobasis* II-24
tenuicarinata var. *whiteavesi*,
 Goniobasis II-24
tenuicincta, *Bailiella* III-6
- tenuicosta, *Pleurolimnaea* II-61
tenuicostata, *Cardiopsis* II-95
tenuicostatum, *Ptenoceras* II-250
tenuicostatus, *Helcion* II-26
tenuicostiformis, *Diaphragmus* I-144
tenuifilatum, *Actinostroma* I-20
tenuifilatum cylindricum, *Actinostroma* . I-20
tenuimurale, *Hemiphragma* I-117
tenuiradiata, *Evactinopora* I-113
tenuis, *Aviculopecten* II-92
 Climacograptus I-95
 Conularia II-341
 Heliolites I-28
 Heterocrinus I-81
 Potamides II-70
 Protarea I-28,31
tenuisculpta, *Modiola* II-138
tenuisculptum, *Cirsotrema* II-12
tenuissima?, *Cornuspira* I-1
tenuistriata, *Amauopsis* II-6
tenuistriatus, *Amygdalocystites* I-73
terebriformis, *Fusispira* II-23
teres, *Episculites* II-298
 Isculites II-298
teretiformis, *Hormotoma* II-52
 Murchisonia II-52
terminalis, *Trematis* I-211
terrannovica, *Conocoryphe* III-10
 Hartshillia III-17
terrannovicum, *Zitteloceras* II-260
terrestris, *Cryptohypnus?* III-124
terrigena, *Cercyon?* III-123
terronovicus, *Ctenocephalus*
 (*Harttella*) III-11
tersa, *Microtrypa* I-164
tertiaria, *Buprestis* III-123
 Eotoptychoptera III-124
tesselata, *Sphaerospongia* I-10
tessellata, *Actinopterella?* II-85
tethys, *Goniophora* II-170
 Rhynchonella I-193
 Sanguinolites II-170
Tetradium sp. indet. I-34
tetreauense, *Gorbyoceras* II-214
tetreauvillense, *Oncoceras* II-226
Tetragraptus sp. I-109
tetsa, *Parapopanceras* II-318
 Paratrachyceras II-319
 Pecten II-155
tetsa var. *praematurum*,
 Parapopanceras II-318
teucer, *Conocephalites* III-30
 Grimbyoceras II-226
 Oncoceras II-226

Ptychoparella	III-30	Encrinurus	III-58
texana, Reophax	I-6	Hormotoma	II-31,33
textilis, Pterinea	II-167	Leperditia	III-107
Trigonia	II-176	Leptaena	I-154
Thalamocyathus sp.	I-19	Lingula	I-161
thales, Ectocyrtoceras	II-226	Metoptoma	II-47
Oncoceras	II-226	Ottawina	III-139
thalia, Cyclonema	II-15	Pholidops	I-177
Strophomena	I-208	Platystrophia	I-180
Thamnopora sp.	I-58	Vellamo	I-139,213
thebesensis paucivesiculosa, Lyellia ..	I-41	trentonensis var. crassa, Hormotoma	II-31,33
thedfordensis, Camarotoechia	I-134	trentonensis var. plana, Hormotoma ...	II-33
Microcyclus	I-54	triangulare, Kindloceras	II-217
Lingula	I-161	triangulata, Conularina	II-342
themis, Cylindroteuthis	II-262	Grammysia	II-117
thetis, Martinia	I-162	triarthra, Parabolinella	III-24
thisbe, Pterinea	II-167	triasina, Pleuromya	II-161
thompsoni, Euproops	III-86	triassic, Margarita	II-43
thoroldense, Cyathophyllum	I-38	tricarinata, Leaia	III-92
thorsteinssoni, Characterocera	II-196	Trochonema	II-80
Zetoceras	II-339	tricenaria, Hesperorthis	I-151
thureau postremus, Goniograptus	I-100	tricolis, Bellomatia	III-95
thureau selwyni, Goniograptus	I-100	tricornis, Corynoides	I-95
thurstoni, Oreohelix	II-57	Tricrepicephalus sp.	III-33
'Tibetites' sp.	II-334	trigonalis, Trigrammaria	I-211
timiskamensis, Syringopora	I-46	trigonalis parva, Trigrammaria	I-212
timiskamingense, Donacoceras	II-208	trigonalis prima, Trigrammaria	I-212
timiskamingensis, Huroniella	II-216	Trigonia sp. undet.	II-176
timon, Bathyrurus	III-46	Trigonodus? sp.	II-176
timotheanus, Ammonites	II-266	trilobata, Boursella	III-96
tityrus, Orthoceras	II-241	Peronopsis	III-26
tizglensis, Lima	II-128	trilobatum, Streptelasma	I-33
tomkinsi, Vanuxemia	II-181	trilobatus, Plectonotus	II-61
torpescens, Cercopites	III-123	trilobita, Strophomena	I-208
torquius, Pseudozaphrentoides aff.	I-66	Trilobite, gen. & sp. indet.	III-84
torrensis, Yakounoceras	II-338	triplicatus, Brachymimulus	I-131
tortuosa, Multisolenia	I-42	trisecta, Lunacrania	III-72
torulus, Cydonocephalus	III-55	trisectus, Lotagnostus	III-20
townsendi, Ascoceras	II-191	trispiniger, Oidagnostus	III-21
townsendii, Pleurotomaria	II-68	trispinosus, Bathyrurus	III-46
tozeri, Arkelloceras	II-270	triton, Cassinoceras	II-245
Trachyceras sp.	II-334	Piloceras	II-245
tranquillianus, Pecten	II-156	tritonia, Helicotoma	II-28
transiens, Goniophora	II-116	Orthis	I-115
Paleofavosites	I-43	Pleurorthis	I-115
transitans, Paedeumias	III-23	trochiformis, Viviparus	II-83
transitoria, Penthetria	III-129	trochlaeiformis, Ptychites	II-325
Plecia	III-127,129,131	troedssoni, Discosorus	II-207
transversalis, Fardenia	I-149	tropidophora, Lophospira	II-38
transversus, Probillingsites	II-249	Murchisonia	II-53
trentonense, Whitfieldoceras	II-259	Tropites sp.	II-335
trentonensis, Ceraurinus	III-50	truncata, Cucullaea (Idonearca)	II-104
Clitambonites	I-139	Productella (Strophalosia?) ..	I-181
Conularia	II-341	truncatus, Hypagnostus	III-18

truncatus intermedius, Diplograptus (Orthograptus)	I-100	typicus, Octonaria	III-108
Tryblidium sp.	II-5	typus, Palaeocaris	III-117
tryoniana, Trigonina	II-176	Phyllograptus	I-107
tuberculata, Calymene	III-49	tyrans, Nautilus	II-224
Ischyrophyma	III-67	Plectoceras	II-224
tuberculatum, Pleurectinium	III-28	tyrellii, Kochoceras	II-185,218
tuberculatus, Amechilus	III-36	Neozaphrentis	I-42
Carabocrinus	I-75	tyrellii, Buchelia	II-10
tuberculosa, Calymene	III-49	Orthoceras (Thoracoceras) ..	II-241
tubicornus, Coscinocyathus	I-16	Raphistoma	II-72
tucer, Anomocare	III-30		
tuchiasanus, Unio	II-179	uberis, Orthis	I-175
tulameena, Tipula	III-133	Rhipidomella	I-175
tulameenensis, Plecia	III-132	ulrichi, Bayfieldia	III-7
Stagnicola	II-75	umbilicata, Trochonema	II-80
tullia, Spirifera	I-200	umbilicatum, Trochonema	II-80
Strophomena	I-208	umbilicatum var. canadense, Trochonema	II-80
tumescens, Monograptus	I-106	umbilicatum var. canadensis, Trochonema	II-80
tumida, Cranaema	I-141	umbilifera, Aulopora	I-48
Meristina	I-163	umbonata, Allodesma?	II-85
Modiomorpha	II-139	Hindella	I-152
Öpikina	I-170	undata, Clionychia	II-97
Trigonoarca	II-176	Pterinea	II-167
tumidifrons, Illaenus	III-67	undatum, Plectoceras(?)	II-246
Martesia	II-131	undulata, Ambonychia	II-86
tumidula, Athyris	I-129	Beatricia	I-21
tumidulum, Cardium	II-95	Holoepa	II-31
tumidum, Platystoma	II-61	undulatus, Ajacicyathus	I-12
tumidus, Hybocrinus	I-82	unduloconstrictum, Manticoceras ..	II-309
turbinata, Cyclora	II-15	unexpectans, Dendrocyathus	I-16
Favosites	I-52	ungulata, Cyrtodonta?	II-111
turbinata var., Murchisonia	II-53	Vanuxemia	II-111
turgidum, Cyrtogomphoceras	II-203	unguloideum, Humeoceras	II-215
turricula, Hormotoma?	II-53	unicostatus, Paltodus	III-140
Murchisonia	II-53	unilateralis, Thamniscus	I-126
turritiformis, Murchisonia	II-53	unilira, Grammysia	II-117
tutrix, Vanuxemia	II-181	Unio sp.	II-179
tutu, Eurychilina	III-101	unionoides var. westonensis, Ischyrodonta	II-125
twenhofeli, Conularia	II-341	uniplicata, Platystrophia	I-180
Ischyrotoma	III-67	Triplexia	I-213
Pterinea	II-167	unisulcata, Athyris (?)	I-129
tyaughtonae, Macrodon (Catella?) ..	II-130	unisulcatus, Loganellus?	III-20
Pecten	II-156	unjiga, Monotrypella	I-119
tychonis, Kepplerites	II-304	uphami, Zygospira	I-215
tympama, Burnesella	II-10	urbana, Myophoria	II-142
tyndallense, Selkirkoceras	II-253	urei, Euphemus	II-21
typa, Bassleretia	III-94	ursaniense, Cardium (Ethmocardium) ..	II-95
Lichenaria	I-28	ursaniensis, Corbula	II-100
typica, Archaeopharetra	I-14	utahensis ventricosa, Nudirostra ..	I-166
Cinuliopsis	II-12		
Cyrtocerina	II-203		
Dekayia	I-112		
typicalis spinothecatus, Climacograptus	I-95		

- vacua*, *Aspidora* I-110
vadocameratum, *Sactoceras* II-252
vagrans, *Barrandoceras* II-195,215
 Centrocyrtoceras II-195,215
 Gyroceras (*Lituities*) II-215
vagum, *Schroederoceras* II-252
vahlIIi saskatchewanensis, *Lymnaea* II-40
valeria, *Pleurotomaria* II-68
validum, *Uromystrum* III-42
validus, *Bathyurellus* III-42
valvatiformis, *Cyclora* II-15
vancortlandti, *Carabocrinus* I-75
vancouverense, *Anisoceras* II-267
 Cerithium II-11
 Hoplitoplacenticeras II-296
 Ptychoceras II-325
vancouverensis, *Anomia* II-88
 Amiotites II-275
 Celtites (?) II-275
 Hemiasiter I-93
 Isastraea I-67
 Linuparus
 (*Podocrates*) III-116
 Nemodon II-144
 Opis II-146
 Pholadomya II-158
 Plagiolophus III-117
 Podocratus III-116
 Polypora I-121
vancouveri, *Zemistephanus* II-339
vanuxemi, *Orthis* I-176
Vanuxemia? sp. II-85
varensis, *Holtedahllina* I-152
varia, *Constellaria* I-112
 Modiolopsis II-136
 Modiomorpha II-136
variabilis, *Actinocystis* I-47
 Cuspidaria II-104
 Eatonia I-148
 Glassia I-150
varians, *Camerella* I-136
 Cyclonema II-15
 Eospongia I-9
 Monograptus I-106
 Zittella I-9
varians pumilis, *Monograptus* I-106
varioseptatus, *Syamplexoides* I-45
variostrata, *Entomis* III-100
varipora, *Helopora* I-117
variporum, *Helopora* I-117
varistriata, *Pterinea* II-167
 Strophomena I-208
varium, *Gymnotoceras* II-289
varro, *Orthoceras* II-242
vaurealensis, *Leptaena?* I-154
veatchii, *Pectunculus* II-156
velaris, *Pleurotomaria* II-68
velox, *Endoceras* II-242
 Orthoceras II-242
venerabilis, *Polygyra* II-69
venillia, *Metoptoma* II-47
vennori, *Eridophyllum* I-38
venosa, *Palaeoptysma* III-126
 Stenolocris III-133
ventralis, *Leperditia* III-107
ventriclefta, *Pyxiprimitia* III-110
ventricosa, *Anodontopsis* II-87
 Lophospira II-38
 Murchisonia II-53
ventricosus, *Microcyclus* I-54
ventricosus var. *saxitonianus*,
 Scaphites II-327
ventrolineatum, *Nybyoceras* II-225
venulosa, *Meneviella* III-20
venusta, *Bailiaspis* III-5
 Beyrichia III-96
 Clarella III-4,9
 Orthonota II-148
 Pteronitella II-168
venusta var. *oblonga*, *Pteronitella* II-168
venustula, *Strophomena* I-208
venustus, *Anapolenus* III-4
 Microcyclus I-54
vera, *Byssonychia* II-94
 Fenestella I-114
 Modiolopsis II-136
veritatis, *Senescella* III-111
vermiculare praecursor, *Cyathophyllum* I-50
vermontensis, *Grandagnostus* III-17
verneuili, *Spiriferina* I-201
veronicus, *Coscinocyathus* I-16
verrilli, *Phillipsastraea* I-56
verrilli exiguum, *Phillipsastraea* I-56
versutum, *Litoceras?* II-224
versutum, *Nautilus* II-224
vertebralis, *Huronina* II-216,231
verticellata, *Syringopora* I-46
vesiculosa, *Ceramopora* I-111
 Phillipsastraea I-55,56
veter, *Dawsonites* III-124
veterator, *Cyptendoceras* II-242
 Orthoceras II-242
vetula var. *tenuis*, *Campeloma* II-11
vetusta, *Edmondia* (?) II-113
 Strophomena I-209
via-alaska, *Anagymnites* II-266
 Modiolus II-138
via-media, *Pteria* II-165

- vicina, Camarotoechia I-193
Rhynchonella I-193
- vigilans, Kirkella III-70
Phylacops III-76
Triangulaspis III-33
- vindex, Illaenus III-67
- vindobonense, Orthoceras II-242
- viola, Pleurotomaria? II-68
- virgo, Pleurotomaria II-68
- virguncula, Pleurotomaria II-69
- vitellia, Coelocaulus II-13
- vitilis, Selenoharpes III-79
- vitruvia, Liospira II-36
Pleurotomaria II-69
- volborthi, Camerella I-136,137
- voltumna, Eotomaria II-69
Pleurotomaria II-69
- Vredenburgites sp. II-336
- v-scripta, Goniomya II-115
Thlipsurella III-112
- vulcana, Ptychoparella III-30
- vulcanicum, Entolium II-114
- vulcanus, Conocephalites III-30
Cheirurus III-53
Kawina III-53,69
- vulcanus var. billingsi, Pseudo-
sphaeroxochus III-53
- vulgaris, Cranocephalites II-277
Devonoproductus I-144
Robulus I-3
- wabashense, Archoceras II-336
Warrenoceras II-336
- wachsmuthi, Nipterocrinus I-83
- wagneri robusta, Öpikina I-170
- wahlenbergi, Cyathophyllum I-38
- walcotti, Ampyx III-38
Nudirostra I-166
Symphysurina III-81
Trocholiticeras II-258
- walcotti var. stenorachis, Ampyx III-38
- walcottorum, Isograptus I-106
- walkeri, Oncograptus I-107
Phyllograptus I-108
- walpolense, Orthoceras II-242
- warrenana, Mastra (Cymbophora?) II-130
- warreni, Cradeocrinus I-76
Cranocephalites II-277
Xenoceltites II-337,338
- Wasatchites? sp. II-321
- waskasense, Cyathophyllum I-50
- watsoni, Himavatites II-294
- Waylandella? sp. III-113
- webbi, Goniobasis II-25
Lumbriconereites III-136
- weegeti, Ostrea II-149
- weelaupensis, Perna II-157
- weihmannae, Augustidontus III-86
- wentworthensis, Cleidophorus II-96
- westonense, Sactoceras II-252
- westoni, Amphion III-37
Asthenodonta II-90
Bonnia III-8
Diplotrypa I-113
Ectenonotus III-37
Hoploparia III-116
Monticulipora I-119
Paterula? I-176
Viviparus II-84
- whiteavesi, Aparchites III-94
Avicula (Oxytoma) II-150
Canadoceras II-265
Cyclendoceras II-197
Cyrtogomphoceras II-203,225
Devonoblastus I-72
Didymoceras II-267
Diestoceras(?) II-247
Hormotoma II-33
Isastraea I-67
Kochoceras II-185
Lima II-128
Lindstromia I-29
Melania? II-44
Parallelodon (Nanonavis) II-144
Phragmoceras II-244
Platystoma II-61
Ptilodictya I-125
Rhaeboceras II-326
Thlipsura III-112
Trigonia II-176
- whiteavesi var. nodosa, Melania II-44
- whiteavesiana, Cayugaea I-48
- whiteavesii, Callianassa III-114
Isochilina III-104
Leperditia III-107
Mesotrypa I-119
- whitneyi, Cyrtospirifer I-143
Ethmophyllum I-17
Lithostrotion I-65
Sphaera II-171
- whittakeri, Dalmanella I-144
Goniobasis II-24,25
Melocrinus I-83
Phillipsastraea I-56
Ptychophyllum(?) I-57
- wiarttonensis, Camerella I-137

- wickendeni, *Pleuromya* II-162
wilckensiana, *Kloedenia* III-104
willdeni, *Protopresbynileus*(?) III-77
williamsi, *Amphicyrtoceras* II-247
 Aviculomyalina? II-92
 Cyrtorizoceras II-220
 Glossopleura III-17
 Goniobasis II-25
 Otiorynchites III-121
 Palaeophyllum
 (*Cyathophyllum*) I-43
 Rhynchotreta I-195
wilsonae, *Endocycloceras* II-210
 Kentlandoceras II-233
 Nicholsonella I-120
 Otarion III-74
 Paracarinia I-65
wilsoni, *Cameroceras* II-194
 Cribanocrinus I-76
 Geroneura III-120
 Palaeaster I-91
 Promopalaeaster I-9!
wilsoni stonehousensis, *Wilsonia* I-214
winchelli, *Batostoma* I-111
 Ischyrina III-134
 Strophomena I-209
winchelli spinulosum, *Batostoma* I-111
windermerensis, *Rhynchotrema* I-195
windsorensis, *Composita* I-140
windsorensis incisa, *Composita* I-140
winiskensis, *Camarotoechia* I-134
winnipegense, *Loxonema* II-39
 Orthoceras II-242
winnipegensis, *Hormotoma* II-33
 Whiteavesites II-242
Winnipegoceras (?) sp. II-259
withersi, *Forbesiocrinus* I-79
woodmani, *Pachyphyllum* I-55
 Palaeocardia? II-151
woodwardi, *Alloclionites* II-263
woosteri, *Symphysurina* III-81
Worm burrows III-138
wortheni, *Cassinoceras* II-195,246
 Piloceras II-246
woyaniana, *Hoernesia*? II-119,120
wrighti, *Gymnotoceras* II-289
 Modiolus II-138
 Ptychites II-325
wyszogrodensis, *Polychaetaspis* III-137
xerxes, *Orthoceras* II-242
 Protocycloceras II-242
xanthippe, *Murchisonia* II-53
xiphias, *Orthoceras* II-243
 Tripteroceras II-243
 Triptoceras II-243
yakounense, *Stephanoceras* II-332
yakounensis, *Hoplites* II-296
yarwoodi, *Thracia*? II-174
youngi, *Carneyella* I-90
 Hemicystites (Lebetodiscus) ... I-90
 Lebetodiscus I-90
 Plectambonites I-180
yukonense, *Pecten (Variamussium)* ... II-156
 Pleuromya II-162
yukonensis, *Ajacycyathus* I-13
 "Variamussium" II-181
Zaphrentis sp. I-60
zauwae, *Protrachyceras* II-323
zeballos, *Myophoria* II-142
zenkeri, *Conocephalites* III-10
 Cyathophyllum I-50
 Loganopeltis III-10
 Loganopeltoides III-20
zetteli, *Rhacophyllites* II-325
zetteli, *Halobia* II-119