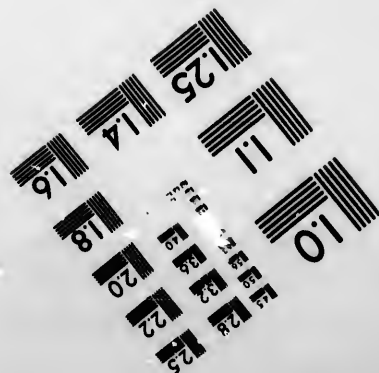
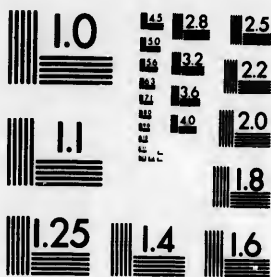


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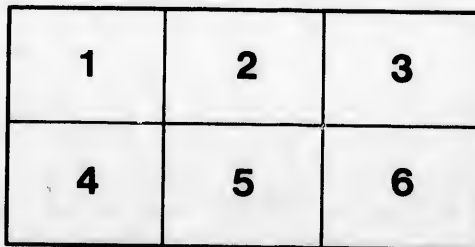
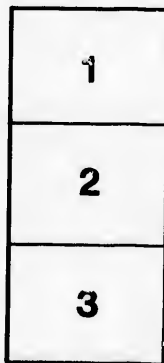
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A CLASSIFIED LIST  
OF  
CAMBRO-SILURIAN  
AND  
POST-TERTIARY  
FOSSILS,

FROM  
OTTAWA AND VICINITY,

BY  
HENRY M. AMI, B.A.,

*Of the Geological Survey of Canada.*

OTTAWA, CANADA:  
CITIZEN PRINTING AND PUBLISHING COMPANY, METCALFE ST.

1884

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B.O.R.  
no 2395







*(Extract from Transactions No. 5, Ottawa Field-Naturalists' Club.)*

# CLASSIFIED LIST OF FOSSILS

FROM

## OTTAWA AND VICINITY.

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HENRY M. AMI, B.A., SECOND ASSISTANT PALÆONTOLOGIST TO THE  
GEOLOGICAL SURVEY OF CANADA.

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### INTRODUCTION.

In order to bring together in as systematic and compact a form as possible the numerous species representing the fauna of the Palæozoic and other rocks about Ottawa—heretofore scattered in the various palæontological publications of the Geological Survey of Canada, and chiefly from the pen of the late Mr. E. Billings—it has been deemed advisable to catalogue the same.

The list is a purely local one, and is intended merely as a basis for future operations in this locality.

Valuable assistance was obtained from the elaborate collections made by officers of the survey during years past, especially those of the late Messrs. E. Billings and James Richardson. Only those species which are of local interest appear in the list. The number of these has been considerably increased by the subsequent researches of Messrs. T. C. Weston, Walter R. Billings and A. H. Foord, F.G.S., as also by the evidence obtained after five seasons' collecting in this locality by the writer.

The species are classed under the respective formations to which they belong.

It has been deemed neither requisite nor even advisable to refer the species and genera to sub-orders and families, seeing that at present

so much diversity of opinion exists on the subject. Only the class under which the generic and specific names appear is mentioned, and will, no doubt, prove quite sufficient for all purposes.

There are included in the list 255 species as representing the fossil fauna and flora of our rocks. This number will evidently be swollen considerably by subsequent researches, as the measures are highly fossiliferous and the exposures extremely numerous.

Some species described and recorded by Billings and others, have been excluded from the list because the types are lost or misplaced—these it would be well to bear in mind as *desiderata*.

Several new species of Palæozoic Polyzoa, recently described by Mr. A. H. Foord, and published by the Geological Survey, are incorporated in the list.

The valuable catalogue of Palæozoic Fossils by Mr. S. A. Miller, of Cincinnati, Ohio, has been used to advantage.

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## CAMBRO-SILURIAN SYSTEM.

### CHAZY FORMATION.

#### PROTOZOA.

*Stromatocerium rugosum*, Hall.

#### POLYZOA.

*Prasopora Selwyni*, Nicholson.

#### BRACHIOPODA.

*Lingula Belli*, Billings.

*Orthis imperator*, Billings.

*Rhynchonella plena*, Hall.

#### LAMELLIBRANCHIATA.

*Cyrtodonta breviscula*, Billings.

#### GASTEROPODA.

*Pleurotomaria pauper*, Billings.

## ANNELIDA.

*Serpulites dissolutus*, Billings, or a very closely allied species.

## CRUSTACEA.

*Isotelus canalis*, Conrad.

*Leperditia Canadensis* var. *nana*, Jones.

## BIRD'S EYE AND BLACK RIVER FORMATION

## PROTOZOA.

*Receptaculites occidentalis*, Salter.

*Stromatocerium rugosum*, Hall.

## POLYPI.

*Columnaria Halli*, Nicholson.

*Streptelasma profundum*, Hall.

*Tetradium fibratum*, Safford.

## BRACHIOPODA.

*Rhynchonella increbescens*, Hall.

*Streptorhynchus filitentum*, Hall.

## LAMELLIBRANCHIATA.

*Cyrtodonta subtruncata*, Hall.

## GASTEROPODA.

*Pleurotomaria subconica*, Hall.

## CEPHALOPODA.

*Cyrtoceras falx*, Billings.

" *sinuatum*, Billings.

" *vagans*, Billings.

*Gonioceras anceps*, Hall.

*Oncoceras constrictum*, Hall.

*Orthoceras* (*Ormoceras*) *Bigsbyi*, Stokes.

" *bilineatum*, Hall.

" *decrescens*, Billings.

" *rapax*, Billings.

## CRUSTACEA.

*Illænus Conradi*, Billings.

" *ovatus*, Billings.

" *Trentonensis*, Emmons.

*Leperditia gracilis*? Jones.

## TRENTON FORMATION.

## PLANTÆ?

- Ruthotrephis gracilis*, Hall.  
*Palæophycus obscurus*, Billings.  
*Licropheycus minor*, Billings.  
 " *Ottawaensis*, Billings.  
 " *succulens*, Hall.

## PROTOZOA.

- Astylospongia parvula*, Billings.  
*Pascéolus globosus*, Billings.  
*Receptaculites Iowensis*, Billings.  
 " *occidentalis*, Salter.

## POLYPI.

- Diplograptus amplexicaulis*? Hall.  
*Palæophyllum divaricans*, Nicholson.  
*Petraia Ottawaensis*, Billings.  
*Protarea vetusta*, Hall.  
*Streptelasma corniculum*, Hall.

## CRINOIDEA.

- Archæocrinus lacunosus*, Billings.  
 " *margiratus*, Billings.  
 " *microbasalis*, Billings.  
 " *pyriformis*, Billings.  
*Calceocrinus articulatus*, Billings sp.  
 " *inæqualis*, Billings sp.  
*Cleioocrinus magnificus*, Billings.  
 " *regius*, Billings.  
*Dendrocrinus gregarius*, Billings.  
 " *humilis*, Billings.  
 " *proboscidiatus*, Billings.  
 " *rusticus*, Billings.  
 " *similis*, Billings.  
*Glyptocrinus decadactylus*, Hall.  
 " *parvus*, Hall.  
 " *quinquepartitus*, Billings.  
 " *ramulosus*, Billings.  
*Heterocrinus Canadensis*, Billings.  
 " *tenuis*, Billings.  
*Hybocrinus conicus*, Billings.  
 " *tumidus*, Billings.  
*Iocrinus subcrassus*, Meek and Worthen.  
*Lecanocrinus elegans*, Billings.  
 " *lævis*, Billings.

## CRINOI...

- Palæocrinus angulatus, Billings.  
 " pulchellus, Billings.  
 " rhombiferus, Billings.  
 Porocrinus conicus, Billings.  
 Reteocrinus stellaris, Billings.

## CYSTOIDEA.

- Amygdalocystites florealis, Billings.  
 " " var. lævis, W. R. Billings.  
 " radiatus, Billings.  
 " tenuistriatus, Billings.  
 Ateleocystites Huxleyi, Billings.  
 Comarocystites punctatus, Billings.  
 Glyptocystites multiporus, Billings.  
 Lichenocrinus crateriformis, Hall.  
 Pleurocystites elegans, Billings.  
 " filitextus, Billings.  
 " robustus, Billings.  
 " squamosus, Billings.

## ASTEROIDEA.

- Agelacrinites Billingsi, Chapman.  
 " Dicksoni, Billings.  
 Cyclocystoides Halli, Billings.  
 Edrioaster Bigsbyi, Billings.  
 Palasterina stellata, Billings.  
 Petraster rigidus, Billings.  
 Stenaster pulchellus, Billings.  
 " Saltori, Billings.  
 Tæniaster cylindricus, Billings.

## POLYZOA.

- Amplexopora discoidea, James sp.  
 Arthroclema pulchellum, Billings.  
 Batostoma Ottawaense, Foord.  
 Constellaria antheloidea, Hall.  
 " florida var. plana, Ulrich.  
 Diplotrypa regularis, Foord.  
 " Whiteavesii, Nicholson.  
 Heterotrypa solitaria, Ulrich.  
 Homotrypa similis, Foord.  
 Monotrypella Trentonensis, Nicholson.  
 Monticulipora Billingsi, Foord.  
 " parasitica, Ulrich.  
 " Westoni, Foord.

## POLYZOA.

- Prasopora affinis*, Foord.  
 " *oculata*, Foord.  
 " *Selwyni*, Nicholson.  
*Ptilodictya falciformis*, Nicholson.  
 " *maculata*, Ulrich.  
 " *pavonia*, d'Orbigny.  
*Retepora Trentonensis*, Hall.  
*Spatiopora areolata*, Foord.  
*Stictopora acuta*, Hall.  
 " *paupera*, Ulrich.  
*Tetradium? Peachii*, var. *Canadense*, Foord.

## BRACHIOPODA.

- Camerella heniplicata*, Hall.  
 " *bisulcata*, Emmons.  
*Discina Circe*, Billings.  
*Leptæna sericea*, Sowerby.  
*Lingula Philomela*, Billings.  
*Orthis Iphigenia*, Billings.  
 " *Merope*, Billings.  
 " *subquadrata*, Hall.  
 " *testudinaria*, Dalman.  
 " *tricenaria*, Conrad.  
*Platystrophia biforata*, Schlotheim, var. *lynx*, Eichwald.  
*Pholidops subtruncatus*, Hall.  
*Rhynchonella increbescens*, Hall.  
 " *recurvirostra*, Hall.  
*Orthisina Verneuii*, Eichwald.  
*Streptorhynchus filitextum*, Hall.  
 " *planumbonum*, Hall.  
*Strophomena alternata*, Conrad.  
 " *deltoidea*, Conrad.  
 " *recta*, Conrad.  
 " *Thalia*, Billings.  
*Trematis Ottawaensis*, Billings.

## LAMELLI BRANCHIATA.

- Ambonychia amygdalina*, Billings.  
*Ctenodonta gibbosa*, Hall.  
 " *levata*, Hall.  
 " *nasuta*, Hall.  
*Modiolopsis carinata*, Billings.  
 " *Gesneri*, Billings.  
*Pterinea Trentonensis*, Conrad.

## PTEROPODA.

*Conularia Trentonensis*, Hall.

## GASTEROPODA.

*Bellerophon bilobatus*, Sowerby.

“ *sulcatus*, Emmons.

*Bucania bidorsata*, Hall.

*Cyclonema Montrealense*, Billings.

*Ecculiomphalus Trentonensis*, Conrad.

*Murchisonia bellicincta*, Hall.

“ *gracilis*, Hall.

“ *Milleri*, Hall.

*Ophileta Ottawaensis*, Billings.

*Pleurotomaria Daphne*, Billings.

*Subulites Richardsons*, Billings.

“ *subfusiformis*, Billings.

*Trochonema umbilicatum*, Hall.

## CEPHALOPODA.

*Endoceras proteiforme*, Hall.

*Orthoceras amplicameratum*, Hall.

“ *Ottawaense*, Billings.

“ *Python*, Billings.

“ *vulgatum*, Billings.

“ *Xiphias*, Billings.

## ANNELIDA.

*Conchicholites flexuosus*, Hall.

*Serpulites dissolutus*, Billings.

## CRUSTACEA.

*Asaphus megistos*, Locke.

“ *platycephalus*, Stokes.

*Bronteus lunatus*, Billings.

*Calymene senaria*, Conrad.

*Cheirurus pleurexanthemus*, Green.

*Dalmanites Achates*, Billings.

“ *Bebryx*, Billings.

“ *callicephalus*, Green.

*Encrinurus vigilans*, Hall.

*Harpes Dentoni*, Billings.

“ *Ottawaensis*, Billings.

*Illænus Americanus*, Billings.

“ *Milleri*, Billings.



## UTICA FORMATION.

## HYDROZOA.

- Didymograptus annectans*, Walcott sp.  
 " *flaccidus*, Hall.  
*Diplograptus mucronatus?* Hall.  
 " *pristis?* Hisinger.  
 " *putillus*, Hall.  
 " *quadrimumeronatus*, Hall.  
*Sagenella ambigua*, Walcott.

## POLYZOA.

- Stictopora acuta*, Hall.

## BRACHIOPODA.

- Leptæna sericea*, Sowerby.  
*Leptobolus insignis*, Hall.  
 " *occidentalis?* Hall.  
*Lingula Daphne*, Billings.  
 " *obtusa*, Hall.  
 " *Progne*, Billings.  
 " *quadrata*, Eichwald.  
*Orthis testudinaria*, Dalman.  
*Schizocrania filosa*, Hall.  
*Siphonotreta Scotica*, Davidson.  
*Strophomena alternata*, Conrad.  
*Zygospira Headi*, Billings.

## LAMELLIBRANCHIATA.

- Lyrodesma pulchellum*, Hall.  
*Molliopsis modiolaris*, Hall.  
*Orthodesma parallelum*, Hall.  
*Perinea insueta*, Conrad.  
 " *Trentonensis*, Conrad.

## PTEROPODA.

- Conularia Hudsonia*, Emmons.  
 " *Trentonensis*, Hall.

## GASTEROPODA.

- Bellerophon bilobatus*, Sowerby  
*Murchisonia Milleri*, Hall.  
*Pleurotomaria subconica*, Hall.  
*Trocholites ammonius*, Conrad.

## CEPHALOPODA.

- Endoceras proteiforme, Hall.  
 " " var. tenuistriatum, Hall.  
 Orthoceras amplicameratum, Hall.  
 " coralliferum, Hall.  
 " lamellosum, Hall.

## ANNELIDA.

- Serpulites dissolutus, Billings.

## CRUSTACEA.

- Asaphus Canadensis, Chapman.  
 " platycephalus, Stokes.  
 Calymene senaria, Conrad.  
 Cheirus pleurexanthemus, Green.  
 Triarthrus Becki, Green.  
 " glaber, Billings.  
 " spinosus, Billings.  
 Leperditia cylindrica, Hall.

## POST-TERTIARY.

## LEDA CLAY AND SAXICAVA SAND

## PLANTÆ.

- Fucus sp.  
 Populus balsamifera, Linnæus.  
 Potamogeton sp.  
 Potentilla Canadensis, Linnæus.

## LAMELLIBRANCHIATA.

- Macoma fragilis, Fabricius.  
 Mytilus edulis, Linnæus.  
 Portlandia arctica, Gray.  
 Saxicava rugosa, Linnæus.

## PISCES.

- Cyclopterus lumpus, Linnæus.  
 Mallotus villosus, Cuvier.

## CETACEA.

- Phoca Groenlandica, Müller.

BALLOONBOUR  
 SAINT-SULPICE

## ALLUVIUM (SHELL-MARL DEPOSIT.)

## GASTEROPODA.

- Amnicola porata*, Say.  
*Conulus fulvus*, Draparnaud.  
*Hyalina arborea*, Say.  
   " *indentata*, Say.  
*Limnæa desidiosa?* Say.  
   " *galbana*, Say.  
   " *stagnalis*, Linnæus.  
*Mesodon albolabris*, Say.  
   " " *var. dentifera*, Binney.  
   " *Sayii*, Binney.  
*Patula alternata*, Say.  
*Physa heterostropha*, Say.  
*Planorbis bicarinatus*, Say.  
   " *campanulatus*, Say.  
   " *parvus*, Say.  
*Valvata tricarinata*, Say.
-

