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6
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
CLASSIFIED LIST OF FOSSILS
FROM
OTTAWA AND VICINITY.

HENRY M. AMI, B.A., SECOND ASSISTANT PALEONTOLOGIST 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 breviuscula, Billings.

GASTEROPUDA.

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.
Rhyynchonella increbescens, Hall.
Streptorhynchus filicicatum, 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) Bigbyi, Stokes.
" bilineatum, Hall.
" decrescens, Billings.
" rapax, Billings.

CRUSTACEA.
Illænus Conradi, Billings.
" ovatus, Billings.
" Trentonensis, Emmons.
Leperditia gracilis? Jones.
TRENTON FORMATION.

PLANTÆ?

Ruthotrephis gracilis, Hall.
Palaephycus obscurus, Billings.
Licrophycus minor, Billings.
  " Ottawaensis, Billings.
  " succulens, Hall.

PROTOZOA.

Astyllospongia parvula, Billings.
Pasecolus globosus, Billings.
Receptaculites Iowensis, Billings.
  " occidentalis, Salter.

POLYPI.

Diplograptus amplexicaulis, Hall.
Palaephylhum divaricans, Nicholson.
Petraia Ottawaensis, Billings.
Protarea vetusta, Hall.
Streptelasma corniculum, Hall.

CRINOIDEA.

Archaecrinus lacunosus, Billings.
  " margi-ratus, Billings.
  " microbasalis, Billings.
  " pyriformis, Billings.
Calceocerinus articulosus, Billings sp.
  " inequalis, Billings sp.
Cleioecrinus magnificus, Billings.
  " regius, Billings.
Dendroecrinus gregarius, Billings.
  " humilis, Billings.
  " proboscidiatrus, Billings.
  " rusticus, Billings.
  " similis, Billings.
Glyptocerinus decadactylus, Hall.
  " parvus, Hall.
  " quinquepartitus, Billings.
  " ramulosus, Billings.
Heterocerinus Canadensis, Billings.
  " tenuis, Billings.
Hybocrinus conicus, Billings.
  " tumidus, Billings.
Iocrinus subcrassus, Meek and Worthen.
Lecanocerinus elegans, Billings.
  " lavis, Billings.
Crinoïdes

Paleocrinus angulatus, Billings.
  " pulchellus, Billings.
  " rhombiferus, Billings.
Porocrinus conicus, Billings.
Retecrinus stellaris, Billings.

Cystoidea.

Amygdalocystites florealis, Billings.
  " var. laevis, W. R. Billings.
  " radiatus, Billings.
  " tenuistriatus, Billings.
Atelocystites Huxleyi, Billings.
Comarocystites punctatus, Billings.
Glyptocystites multiplicatus, Billings.
Lichenoecrinus 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.
Teniaster 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.
Sti topora acuta, Hall.
" paupera, Ulrich.

BRACHIOPODA.

Camerella hemiplicata, Hall.
" bisulcata, Emmons.
Discina Circe, Billings.
Leptestea sericea, Sowerby.
Lingula Philomela, Billings.
Orthis Iphigenia, Billings.
" Merope, Billings.
" subquadrata, Hall.
" testudinaria, Dalman.
" tricnaria, Conrad.
Platystrophia bistorata, Schlotheim, var. lynx, Eichwald.
Pholidops subtruncatus, Hall.
Rhynchonella increbescens, Hall.
" recurvirostra, Hall.
Orthisina Verneuili, Eichwald.
Streptorhynchus filitextum, Hall.
" planumbonum, Hall.
Strophomena alternata, Conrad.
" deltidae, Conrad.
" recta, Conrad.
" Thalia, Billings.
Trematis Ottawaensis, Billings.

LAMELLIBRANCHIATA.

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 Montrealese, Billings.
Ecculiomphalus Trentonensis, Conr. & d.
Murchisonia bellicincta, Hall.
" gracilis, Hall.
" Milleri, Hall.
Ophileta Ottawaensis, Billings.
Pleurotomaria Daphne, Billings.
Subulites Richardsoni, Billings.
" subsfusiformis, Billings.
Trochonema umbilicatum, Hall.

Cephalopoda.
Endoceras proteiforme, Hall.
O-thoceras ampicameratum, Hall.
" Ottawaense, Billings.
" Python, Billings.
" vulgatum, Billings.
" Xiphias, Billings.

Annelida.
Conchicholites flexuosus, Hall.
Serpulites dissolutas, Billings.

Crustacea.
Asaphus megistos, Locke.
" platycephalus, Stokes.
Bronteus lunatus, Billings.
Calymene senaria, Conrad.
Cheirurus pleurexanthemus, Green.
Dalmanites Achates, Billings.
" Bebryst, Billings.
" callicephalus, Green.
Encrinurus vigilans, Hall.
Harpes Dentoni, Billings.
" Ottawaensis, Billings.
Illenus Americanus, Billings.
" Milleri, Billings.
UTICA FORMATION.

HYDROZOA.

Didymograptus annectans, Walcott sp.

" flaccidus, Hall.

Diplograptus micronatus? Hall.

" pristis? Hisinger.

" putillus, Hall.

" quadrimumcronatus, Hall.

Sagenella ambigu,a, 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.

Mo liolepsis modiolaris, Hall.

Orthodesma parallelum, Hall.

Pterinea 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 dissolatus, Billings.

Crustacea.

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

POST-TERTIARY.

LEDA CLAY AND SAXICAVA SAND

Plantæ.

Fucus sp.
Populus balsamifera, Linnaeus.
Potamogeton sp.
Potentilla Canadensis, Linnaeus.

Lamellibranchiata.

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

Pisces.

Cyclopterus lumpus, Linnaeus.
Mallotus villosus, Cuvier.

Cetacea.

Phoca Greenlandica, Müller.

BIBLIOTHEQUE
SAINT-SULPICE
ALLUVIUM (SHELL-MARL DEPOSIT.)

**Gasteropoda.**

Amnicola porata, Say.
Conulus fulvus, Draparnaud.
Hyalina arborea, Say.
“ indentata, Say.
Limneea desidiaea? Say.
“ galbana, Say.
“ stagnalis, Linnaeus.
Mesodon albolabris, Say.
“ var. dentifera, Binney.
“ Sayii, Binney.
Patula alternata, Say.
Physa heterostropha, Say.
Planorbis bicarinatus, Say.
“ campanulatus, Say.
“ parvus, Say.
Valvata tricarinata, Say.