#### RESEARCH COMPILATION: ANCIENT SEDIMENTS

# Research on Pre-Pleistocene Sedimentary Rocks in the Atlantic Provinces and Adjacent Areas: Current and Recently Completed Work

## BRENDA P. LAMING

Fredericton, N.B.

This compilation deals with current research activity on pre-Pleistocene sedimentary rocks of the region, listing all work, of any kind, that has been reported to the editors of MARITIME SEDIMENTS. most of the listings have been made up from questionnaires answered during February and March, 1966. Other items, marked with an asterisk (\*) in the main list, are those for which no questionnaire was returned: information for these was derived from previous issues of MARITIME SEDIMENTS and from the G.S.C. Report of Activities, May to October, 1965 (Geological Survey of Canada Paper 66-1, Ed. S.E. JENNESS, 1966); these items are therefore less up-to-date. Institutions are listed on p 99.

Research worker(s), institution(s) and status of research are shown for each full listing in the main list. Where news or a report of the work has appeared in Maritime Sediments previously, reference is made on the right hand side (citation of volume, number and page); if from the G.S.C. Report of Activities, page reference (66-1 p---) is made instead.

#### Status of Research

Letter at left margin indicates status reported by questionnaire respondent.

rs recently started a active nc nearly complete rc recently completed s suspended, will be completed later

ABBOTT, D., & D. BARNETT NB R.P.C.	In this issue
a <u>Mineralogical research on shale (Carboniferous) in N.B.</u>	
ANDERSON, F.D. G.S.C.	(66-1 p 176)
Structural studies of the Bay D'Espoir Group, Nfld. (Ord	<u>ovician</u> )
BARNETT, D. Carboniferous shale in N.B. see ABBOTT	
BELAND, J. Appalachians, Québec: see LAJOIE	
BELT, E.S. Amherst Coll	
(a) Carboniferous continental sedimentation, Atlantic Pr	ovinces, a
rc general study.	1-ii 14
nc (b) Stratigraphy and paleogeography of middle Carbonifer	ous facies, Nfld.
a (c) Hypotheses for the origin of the Carboniferous Fundy	Basin, N.B.,
N.S., and P.E.I.	
BENSON, D.G. G.S.C.	(66-1 p 170)
Merigomish, E half and Malignant Cove map-areas, N.S. (O	rdovician to
Carboniferous)	

BERI	RY, J.R.M. McGill
-	Paleoecology and taxonomy of stromatoporoids in Black River (Ordovician)
nc	rocks, Que. Work is being carried out on an assemblage of stromato- poroids from the Black River Group exposed in the Ouareau River, 40
	miles NE of Montreal. Measurements of some twelve parameters have
	been made on about 200 individuals and are being statistically
	analysed to determine the paleoecology and taxonomy of what has so far been called Stromatocerium rugosum.
207	
a BOLT	CON, T.E. G.S.C. Ordovician and Silurian Biostratigraphy of Anticosti I., Que.
	COT, A.J. Cal Tech, J.F. DEWEY Cambridge, D.L. DINELEY & W.K. FYSON Ottawa
DOOL	C.F. HICKOX Colby Coll, W.S. McKERROW & A.M. ZIEGLER Oxford 1-i 11
а	The Geology of the Arisaig Area, Antigonish County, N.S. (Silurian,
	Devonian)
BROV	N, R.L., H. HELMSTAEDT, D.T.C. LEE, A. DE CARLE U.N.B. 2-1 33
а	Structural studies, Precambrian and Silurian, south shore of N.B. Stratigraphic, structural and metamorphic studies of Coldbrook (PC)
4	and Mascarene (Sil) Groups, Beaver Harbour and Letang areas,
	Charlotte Co., N.B. See also SMITH, J.C.
CAME	PBELL, F. Meguma Group, N.S.: see SCHENK
CHUF	CH, W.R. W Ontario 1-iii 9
-	The structural history of the White Bay South and Green Bay districts
*	of NE_Nfld. (Proterozoic).
CLIF	TON, H.E. U.S.G.S. (California) 1-iv 16
*	The origin of the Pembroke Breccia in central N.S., and stratigraphy of the Windsor Group (Mississippian) in the Minas Basin.
COPE	LAND, M.J. G.S.C. (a) Ordovician and Silurian Ostracoda, Anticosti I., Que. Collections
а	from Upper Ordovician, Lower and Middle Silurian for determination of
	the stratigraphic zonation of their contained ostracod faunas.
	(b) Silurian and Lower Devonian Ostracoda, Gaspé, Que., being carried
а	on in conjunction with studies of Ostracoda from Anticosti I.
	(c) Silurian Ostracoda, Jones Creek, N.B., a small paper is proposed
а	describing this fauna and its relationships with Silurian Ostracod faunas presently under consideration by DR. J.M. BERDAN (U.S.G.S.) in
	southern Maine.
	(d) Additional occurrences of the Upper Silurian Stonehouse Formation
а	ostracod fauna, Cobequid area, N.S., a continuation of the study
	commenced in 1960 on the ostracod fauna from the type area, Arisaig, N.S.
CUMM	ING, L.M. G.S.C.
	(a) <u>Paleozoic Bedrock geology of the Passamaquoddy Bay region</u> , N.B.
rc	Stratigraphy of Ordovician, Silurian and Devonian sediments described and regional structure interpreted in relation to the tidal power
	potential (Quoddy Project) of the region.
	(b) Illustration of Canadian Fossils: Ordovician, Silurian and
nc	Devonian of the Canadian Appalachians. A 'picture book' format,
	mainly invertebrate material from G.S.C. type collection with
	extensive bibliography.

(c) Graptolites from Gaspé Peninsula, Que., to describe and figure the region's stratigraphically important Ordovician and Silurian а graptolite faunas. (d) Biostratigraphic studies of platform and klippe rocks (Ordovician), W. Nfld. Investigating the composition of map units in both platform rs and klippe terranes - e.g. divisions K, L, M, M, & N, (Table Head Formation). DE CARLE, A. Structure, S shore N.B.: see BROWN DEWEY, J.F. Cambridge Structural studies in the W part of the central mobile belt in Nfld. (Precambrian, Ordovician). A detailed study of the structural transrs ition from the Fleur-de-Lys, Grand Lake Schists and Ordovician volcanic sequences into the carbonate sequence of the western stable shelf. DEWEY, J.F. Arisaig area, N.S.: see BOUCOT DINELEY, D.L. Arisaig area, N.S.: see BOUCOT DINELEY, D.L. Chaleur Bay, Que.: see WILLIAMS, B.P. EAKINS, P.R. McGill 1-ii 15 \* Structure of the Eastern Townships, Que. (Lower Paleozoic) EASTLER, T. Notre Dame Bay region, Nfld.: see KAY 1-iii 21 EVANS, R. Kansas The geology of the Mississippian evaporite deposit at Pugwash, N.S. Work will include investigations of regional setting, possible rs diapirism, mineralogy and petrology, nature and provenance of contained clastics, detailed internal stratigraphy utilising bromine investigations, structure and structural petrology and considerations of environment of deposition and geological history of the deposit. Mapping at 1:600 scale. FERGUSON, L. Mt Allison Giant arthropod trackways (Carboniferous) from Joggins, N.S. A slab 25 by 10 feet bearing 3 sets of trackways (at least 2 individual rs animals are concerned) has recently been recovered. Provisional identification by DR. D. BAIRD of Princeton gives Arthropleura as track-maker. FONG, C.C. Memorial Paleoecology of Cambrian Archaeocyathids of Nfld. rs 2**-i** 5 FYSON, W.K. Ottawa Structural studies in Paleozoic rocks, N.S. (Carboniferous and earlier) а FYSON, W.K. Arisaig area, N.S.: see BOUCOT GILLIS, J.W. G.S.C. (66-1 p 178) Hare Bay region of the Great Northern Peninsula, Nfld. (Cambrian, Ordovician, Carboniferous) GLOBENSKY Y. Q.D.N.R. Micropaleontological investigations of the Ordovician formations of the St. Lawrence Lowlands, Que. General survey of the micropaleontoа logical potential with special emphasis on conodonts.

GOODWIN, R. Dalhousie

#### 1-ii 16 \* Carbonate petrology of the Windsor Limestone (Mississippian)in the Antigonish Basin, N.S.

GRANT, D.R. Dalhousie

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S

Mega-structures on a structural envelope of the Meguma Group,

(Ordovician), N.S. In order to study the gross geometry of the Meguma fold system, a structural envelope was constructed by contouring the surface containing the synclinal fold axes at the Halifax-Goldenville contact. This surface, which slopes northward, reveals longitudinal corrugations (with an amplitude of 50,000 ft.) persistent over 200 miles, with sinusoidal profile, apparently unaffected by the numerous intrusive bodies, and ornamented with cross-folds whose apices align obliquely as if though shearing.

GREINER, H.R. U.N.B. 1-i 13

2-i 10

1-iv 13

(a) Fossil fish of the Maritimes (Devonian).

HACQUEBARD, P.A. G.S.C. (66-1 p 206) Petrography and palynology of Main Seam (Carboniferous), Minto-Chipman area, N.B.

## HAMILTON, J.B. N.B. Mines Branch

(a) Silica in N.B. Geological report on all known high-silica rocks

- rs in N.B., includes sandstones, quartzites, quartz veins and diatomite. Data on field relationships, grade, quarrying or extractive opportunities, reserves and beneficiation possibilities.
  - (b) Sedimentary copper deposits (Carboniferous) of N.B. A study of the origin, reserves, etc., of malachite, chalcocite deposits of southern N.B.

HAY, P.W. N.B. Mines Branch

- Stratigraphy and structure of the Silurian Mascarene Series, SW N.B. Field mapping to extend the Eastport subdivisions of the Silurian rs
- rocks in Maine into N.B.
- HELMSTAEDT, H. Structure, S shore N.B.: see BROWN

HELWIG. J. Notre Dame Bay region, Nfld.: see KAY

HICKOX, C.F. Arisaig area, N.S.: see BOUCOT

HORNE, G. Notre Dame Bay region, Nfld.: see KAY

HUBERT, C. Q.D.N.R.

The stratigraphy of the Quebec Complex, L'Islet-Kamouraska area, Que. \* (Cambro-Ordovician).

IMPERIAL OIL LTD. Grand Banks & Gulf of St. Lawrence: see PAN AMERICAN

KAY, M., J. HELWIG, G. HORNE, E. SARPI, T. EASTLER Columbia 1-i 11 Stratigraphy and structure of Ordovician and Silurian rocks, Notre Dame Bay region, NE Nfld. а

KELLEY, D.G. (66-1 p 172) G.S.C. Cobequid Mountains, N.S. (Silurian to Carboniferous).

KINDLE, C.H. Cambrian & Ordovician, W. Nfld.: see WHITTINGTON

<sup>\*</sup> (b) Silurian-Devonian stratigraphy in the Charlo map area, northern N.B.

LAJOIE, J., J. BELAND, M.A. LEONARD, B. MATHEY Montréal In this issue Structure, stratigraphy and paleogeography of Lower Paleozoic strata

a <u>in the Northern Appalachians, Québec</u>. Detailed studies of sedimentary structures in field and laboratory and detailed structural analysis of an area near Rimouski.

LAMING, D.J.C. U.N.B.

Carboniferous deltaic facies and paleocurrents, SE N.B., northern N.S., a and eastern P.E.I. Interpretation of facies paleocurrent mapping

and eastern P.E.I. Interpretation of facies, paleocurrent mapping and study of evidence relative to contemporaneous tectonic movements, paleogeography and paleoclimate; mainly on the Boss Point Formation and higher beds. Submarine extensions off northern N.S. to be studied by sparker.

LAMING, D.J.C. Devonian, southwestern N.B.: see McILWAINE

LEE, D.T.C. Structure, S shore N.B.: see BROWN

LEE, H.A. G.S.C. (66-1 p 168) A potential building stone (Precambrian limestone) near Lancaster, N.B.

LEONARD, M.A. Appalachians, Que.: see LAJOIE

LESPÉRANCE, P.J. Montréal a <u>Upper Ordovician, Silurian and Lower Devonian Trilobites, particularly</u> of the Québec Appalachians. Paleontology and stratigraphic paleontology, with most work so far done on the Upper Ordovician and Silurian White Head Formation of the Percé area.

LILLY, H.D. Memorial 2-i 12 <u>Submarine surveys on the Great Bank of Newfoundland and in the Gulf</u> \* of St. Lawrence (Precambrian, Ordovician, Silurian).

MARLOWE, J.I. Bedford I.O.

A <u>Stratigraphy and structure of bedrock (Tertiary and older) along the</u> a <u>continental slope off N.S.</u>

MASON, G.D. McGill

Nfld.

a <u>Lowlands between Quebec and Montreal</u>. Sedimentary features of these Ordovician clastic rocks are being examined, analyzed and described to determine nature of source rocks, to evaluate distance and direction to source area and to estimate the nature of the depositional environment.

MATHEY, B. Appalachians, Que.: see LAJOIE

MCILWAINE, W.H. O.D.M., & D.J.C. LAMING U.N.B.

Stratigraphy and paleocurrents of red beds of Perry Formation (U.

a <u>Devonian</u>) St. Andrews and Black's Harbour, SE N.B. Trough crossbedding and quicksand injection structures in sandstones, and pebble counts in conglomerates in the Passamaquoddy Bay area.

McKERROW, W.S. Arisaig area, N.S.: see BOUCOT

MOORE, R.G. Acadia \* <u>Stratigraphy and paleoecology of the Mississippian of the Minas sub-</u> basin, N.S.

NAUTIYAL, A.C. Memorial \* Upper Cambrian and Lower Ordovician of Bell Is. and SE Conception Bay, NEUMAN, R.B. U.S.G.S., U.S. Nat Mus

Appalachian Ordovician brachiopods work continuing with collections a from Maine to Nfld. Additional collections or news of new fossil occurrences welcomed.

PAN AMERICAN OIL CORP & IMPERIAL OIL LTD 2-i 34

\* <u>Bedrock petroleum exploration</u>, Grand Banks and Gulf of St. Lawrence (?Tertiary and Carboniferous).

POLLARD, J.E. Manchester

A study of ostracod-sediment relationships in Upper Carboniferous

a <u>rocks of Great Britain and Nova Scotia</u>. An examination of possible relationships between ostracod faunas and sediments in bituminous shales and limestones of Lower Westphalian age and spirorbisostracod-algal limestones of Upper Westphalian age. The approach is paleoecological and consists of detailed population analyses of fauna and petrographic and partial geochemical analyses of the sediments.

POTTER, R.R. N.B. Mines Branch

(a) <u>Metallogenic investigations in N.B.</u> Mineral deposits as related
 rs to stratigraphy (Precambrian to Triassic), structure and igneous activity.

(b) <u>Geology of the Burnt Hill area, N.B.</u> Stratigraphy, sedimentation nc and structure within Ordovician greywackes, central N.B.

RUST, B.R. Ottawa 1-iv 15 Sedimentology of Carboniferous rocks, Cape Breton I., N.S. The paleogeography of continental Horton Group (Mississippian) rocks is being reconstructed from paleocurrent and lithological data; also the relationship between lithotypes and sedimentary structures in the

Pictou Group (Pennsylvanian) in the Sydney Basin is being studied.

SARPI, E. Notre Dame Bay region, Nfld.: see KAY

SCHENK, P.E. 1-ii 16 Dalhousie Carbonate petrography and paleoecology of the cyclic Windsor "Group" (Mississippian), Antigonish basin, N.S. Study of the depositional а environment fauna and flora of carbonates, redbeds, and gypsum by field relations, carbonate petrology, microfauna and flora, insoluble residue, and elemental analysis. SCHENK, P.E., & F. CAMPBELL 1-ii 16 Dalhousie Paleocurrent and basin analysis of the Meguma Group (?Ordovician) N.S. by orientation of primary sedimentary structures and by measurement а of bed thickness and mineralogy. 2**-i** 5 SIKANDER, A.H. Ottawa Structural studies in lower Paleozoic rocks near Matane, Québec. 2-i 33 SMITH, J.C. U.N.B. & N.B. Mines Branch Stratigraphy and structural geology of the Mispeck Group (Carboniferous) southern N.B. Structural analysis from Saint John to Dipper Harbour. rs See also BROWN. SMITH, J.C. Mount Pleasant area, N.B.: see VAN de POLL 1-iv 13, 17 STEVENS, R.K. G.S.C.

\* The Humber Group (Cambro-Ordovician) in the Great Northern Peninsula, Nfld.

SUTHERLAND, J.K. N<sub>B</sub>, R<sub>P</sub>, C<sub>2</sub>

A study of the Pennsylvanian sandstones and Paleozoic quartzites

- of N.B. Chemistry (suitability for glass manufacture) heavy minerals а and general mineralogy.
- TUKE, M.F. Ottawa

1-ii 14

The significance of sudden facies changes, Pistolet Bay area, Nfld. rc Cambrian and Ordovician strata can be divided into an autochthonous shelf and allochthonous eugeosynclinal sequences.

UTTING, J. Memoria1

- 1-ii 17 & 1-iv 17 Carboniferous rocks in the Codroy Valley, Nfld, Separation and study of spores.
- VAN de POLL, H.W. N.B. Mines Branch
- Sedimentation and paleocurrents during Pennsylvanian in the Moncton Basin, N.B.
- VAN de POLL, H,W, & J,C, SMITH N.B, Mines Branch & U.N,B, Geology of the Mount Pleasant area N.B.: Mississippian type section
- Geological compilation of several years of field and laboratory nc research comprising lithology, zonal variations, stratigraphy, economic geology of the Mount Pleasant Ash Flow tuff deposits and caldera subsidence of the Mount Pleasant Appendage.
- VON BITTER, P.H. Acadia 1-iv 15 Correlation of Windsor Group (Mississippian) sub-zones by echinoderms \* in the Minas sub-basin, N.S.

WEBB, G.W. Massachusetts & Glasgow

- Comparative wrench-fault study and palinspastic mapping, Northern Appalachians and British Isles. Study of wrench faults and related а stress patterns of middle and late Paleozoic age, part compilation and part field work. Involves preparation of palinspastic base maps as bases for comparison across the North Atlantic, being another approach to the continental drift problem.
- WEBB, G.W. and students Massachusetts Carboniferous red beds in SE N.B. Stratigraphy and sedimentology а of the Memramcook Formation, Moncton and Hopewell Groups, mainly Mississippian in age.
- WHITTINGTON, H.B. Harvard, & C.H. KINDLE City Coll, N.Y. 1-i 13 \* Stratigraphy and paleontology of Cambrian and Ordovician rocks of W. Nfld.
- WILLIAMS, B,P, Wales, & D.L. DINELEY Ottawa 2-i 7 Sedimentological, paleontological and stratigraphic studies on the Devonian strata of Chaleur Bay, Que. rc

WILLIAMS, F.M.G. McGill Structural studies in the Stanbridge Formation (Ordovician) near

Cowansville, Que. Essentially a structural study but there is good nc evidence for submarine slumping and sliding penecontemporaneous with deposition.

WILLIAMS, H. G.S.C. (66-1 p 183) Red Indian Lake, E half map-area, Nfld. (Ordovician, Silurian, Carboniferous).

ZIEGLER, A.M. Arisaig area, N.S.: see BOUCOT

#### CLASSIFIED SUBJECT INDEX

#### Regional and General Studies

including area mapping dealing with several systems

Arisaig area, N S: BOUCOT et al Atlantic region, Carboniferous sedimentation: BELT Charlo area, N B: GREINER Grand Banks, Nfld: LILLY Gulf of St Lawrence: LILLY Hare Bay, Great N Pen, Nfld: GILLIS Malignant Cove area, N S: BENSON Merigomish area, N S: BENSON Palinspastic maps, N Appalachians & British Is: WEBB Passamaquoddy Bay, N B: CUMMING Red Indian L, Nfld: WILLIAMS, H Sandstones of N B: SUTHERLAND Silica rocks, N B: HAMILTON Wrench faults, N Appalachians & British Is: WEBB

## TERTIARY and ?TERTIARY and older

## Stratigraphy

Continental slope bedrock, Scotian Shelf, N S: MARLOWE Grand Banks, Nfld, core hole drilling: PAN AMERICAN & IMPERIAL OIL

#### CARBONIFEROUS

#### Structure

Central N S: FYSON Cobequid Mtns, N S: KELLEY Evaporite, Pugwash, N S: EVANS Hare Bay, Great N Pen, Nfld: GILLIS Mispeck Group, south N B: SMITH

### Sedimentology

Antigonish Basin, N S, Windsor Group: SCHENK Antigonish Basin, N S, Windsor Lst: GOODWIN Cape Breton, N S: RUST Coal petrography, Minto, N B: HACQUEBARD Continental sedimentation: BELT Copper minerals, N B: HAMILTON Evaporite, Pugwash, N S: EVANS Facies, N B, N S: LAMING Fundy Basin, N B, N S, & P E I: BELT Horton Group, paleogeography, Cape Breton, N S: RUST Moncton Basin, N B, paleocurrents: VAN DE POLL Mt Pleasant area, N B: VAN DE POLL & SMITH

Ostracod-sediment relationships, Gt Britain & N S: POLLARD Paleocurrents, Moncton Basin N B: VAN DE POLL Paleocurrents, N B, N S, P E I: LAMING Pembroke Breccia, N S: CLIFTON Pictou Group, Sydney Basin N S: RUST Red beds, Hopewell Group, N B: WEBB et al Red beds, Memramcook Formation, N B: WEBB et al Red beds, Moncton Group, N B: WEBB et al Sandstones of N B: SUTHERLAND Shale mineralogy, N B: ABBOTT & BARNETT Windsor Group, Antigonish Basin N S: SCHENK Windsor Lst, Antigonish, N S: GOODWIN

## Stratigraphy

Cobequid Mtns, N S: KELLEY Fundy Basin, origin: BELT Gulf of St Lawrence: PAN AMERICAN & IMPERIAL OIL LTD

v

Hare Bay, Great N Pen, Nfld: GILLIS Hopewell Group, N B: WEBB et al Malignant Cove area, N S: BENSON Memramcook Fm, N B: WEBB et al Merigomish area, N S: BENSON Metallogenic relations, N B: POTTER Middle Carboniferous facies, Nfld: BELT Minas sub-basin, N S. Windsor Lst: MOORE Minas sub-basin, Windsor Group Echinoderms: VON BITTER Mispeck Group, south N B: SMITH Moncton Group, N B: WEBB et al Mt Pleasant area, N B: VAN DE POLL & SMITH Paleogeography, middle Carboniferous, Nfld: BELT Red Indian L, Nfld: WILLIAMS, H Windsor Group, Minas Basin, N S: CLIFTON Windsor Lst, Minas sub-basin N S: MOORE

## Paleontology

Arthropod tracks, Joggins N S: FERGUSON Echinoderms, Windsor Group N S: VON BITTER Minas sub-basin, paleoecology, N S: MOORE Ostracod-sediment relationship, Gt Britain & N S: POLLARD Paleoecology, Windsor Group, N S: SCHENK Palynology, Minto coal, N B: HACQUEBARD Spores, Codroy Valley, Nfld: UTTING Windsor Group paleoecology, Antigonish, N S: SCHENK Windsor Group, N S, Echinoderms: VON BITTER Windsor Lst, paleoecology, N S: MOORE

### DEVONIAN

#### Structure

Arisaig area, N S: BOUCOT et al Cobequid Mtns, N S: KELLEY Passamaquoddy Bay, N B: CUMMING

Sedimentology

Arisaig area, N S: BOUCOT et al Chaleur Bay, Que: WILLIAMS & DINELEY Passamaquoddy Bay, N B: McILWAINE & LAMING

#### Stratigraphy

Arisaig area, N S: BOUCOT et al Chaleur Bay, Que: WILLIAMS & DINELEY Charlo map area, N B: GREINER Cobequid Mtns, N S: KELLEY Ostracoda, Gaspé, Que: COPELAND Passamaquoddy Bay, N B: CUMMING Passamaquoddy Bay, N B: McILWAINE & LAMING St Andrews, N B: McILWAINE & LAMING Trilobites, Que: LESPÉRANCE

### Paleontology

Appalachian fossils: CUMMING Arisaig area, N S: BOUCOT et al Chaleur Bay, Que: WILLIAMS & DINELEY Fossil Fish: GREINER Ostracoda, Gaspé, Que: COPELAND Trilobites, Que: LESPÉRANCE

### SILURIAN

#### Structure

Arisaig area, N S: BOUCOT et al Cobequid Mtns, N S: KELLEY Eastern Townships, Que: EAKINS Mascarene Group, south shore N B: BROWN et al Mascarene Series, N B: HAY Notre Dame Bay, Nfld: KAY et al Passamaquoddy Bay, N B: CUMMING Rimouski, Que: LAJOIE et al

#### Sedimentology

Arisaig area, N S: BOUCOT et al Rimouski, Que: LAJOIE et al

#### Stratigraphy

Arisaig area, N S: BOUCOT et al Biostratigraphy, Anticosti I: BOLTON Charlo map area, N B: GREINER Cobequid Mtns, N S: KELLEY Graptolites, Gaspé, Que: CUMMING Mascarene Group, south shore N B: BROWN et al Mascarene Series, N B: HAY Notre Dame Bay, Nfld: KAY et al Ostracoda, Anticosti, Que: COPELAND Ostracoda, Gaspé, Que: COPELAND Passamaquoddy Bay, N B: CUMMING Red Indian L, Nfld: WILLIAMS, H Rimouski, Que: LAJOIE et al Trilobites, Que: LESPÉRANCE

## Paleontology

Appalachian fossils: CUMMING Arisaig area, N S: BOUCOT et al Biostratigraphy, Anticosti I: BOLTON Graptolites, Gaspé, Que: CUMMING Ostracoda, Anticosti, Que: COPELAND Ostracoda, Cobequid area, N S: COPELAND Ostracoda, Gaspé, Que: COPELAND Ostracoda, Jones Creek, N B: COPELAND Trilobites, Que: LESPÉRANCE

#### ORDOVICIAN

#### Structure

Bay D'Espoir Gp, Nfld: ANDERSON Burnt Hill, central N B: POTTER Central mobile belt, Nfld: DEWEY Cowansville Que, Stanbridge Fm: WILLIAMS F M G Eastern Townships, Que: EAKINS Hare Bay, Great N Pen, Nfld: GILLIS Humber Group, Great N Pen, Nfld: STEVENS Matane area, Que: SIKANDER Meguma fold system, N S: GRANT Notre Dame Bay, Nfld: KAY et al Passamaquoddy Bay, N B: CUMMING Rimouski, Que: LAJOIE et al Stanbridge Fm, Cowansville Que: WILLIAMS F M G

#### Sedimentology

Burnt Hill, central N B: POTTER
Facies, Pistolet Bay, Nfld: TUKE
Greywackes, Burnt Hill N B:
 POTTER
Meguma Group, N S: SCHENK &
 CAMPBELL
Meguma Group, N S, Paleocurrents
 & basin analysis: SCHENK &
 CAMPBELL

Paleocurrents, Meguma Group N S: SCHENK & CAMPBELL Quartzites of N B: SUTHERLAND Rimouski, Que: LAJOIE et al St Lawrence Lowlands, Que: MASON Submarine slumps, Cowansville Que: WILLIAMS F M G

## Stratigraphy

Bell I, Nfld: NAUTIYAL Biostratigraphy, Anticosti I: BOLTON Biostratigraphy, W Nfld: CUMMING Burnt Hill, central N B: POTTER Conception Bay, Nfld: NAUTIYAL Graptolites, Gaspé, Que: CUMMING Hare Bay, Great N Pen, Nfld: GILLIS Humber Group, Great N Pen, Nfld: STEVENS Metallogenic relations, N B: POTTER Notre Dame Bay, Nfld: KAY et al Passamaquoddy Bay, N B: CUMMING Pistolet Bay, Nfld: TUKE Quebec Complex, Kamouraska, Que: HUBERT Ostracoda, Anticosti, Que: COPELAND Red Indian L, Nfld: WILLIAMS, H Rimouski, Que: LAJOIE et al Trilobites, Que: LESPÉRANCE W Nfld: WHITTINGTON & KINDLE

## Paleontology

Appalachian brachiopods, Maine to Nfld: NEUMANN Appalachian fossils: CUMMING Biostratigraphy, Anticosti I: BOLTON Biostratigraphy, W Nfld: CUMMING Brachiopods, Appalachians from Maine to Nfld: NEUMANN Conodonts, St Lawrence lowlands, Que: GLOBENSKY

- Graptolites, Gaspé, Que: CUMMING Micropaleo, St Lawrence lowlands, Que: GLOBENSKY Ostracoda, Anticosti, Que: COPELAND Paleoecology, stromatoporoids: BERRY St Lawrence lowlands, Que, micropaleo: GLOBENSKY Stromatoporoids: BERRY Trilobites, Que: LESPERANCE

#### Structure

Hare Bay, Great N Pen, Nfld: GILLIS

Humber Group, Great N Pen, Nfld: STEVENS

#### Sedimentology

Facies, Pistolet Bay, Nfld: TUKE

#### Stratigraphy

Bell I, Nfld: NAUTIYAL Conception Bay, Nfld: NAUTIYAL Hare Bay, Great N Pen, Nfld: GILLIS Humber Group, Great N Pen, Nfld: STEVENS Pistolet Bay, Nfld: TUKE Quebec Complex, Kamouraska, Que: HUBERT

W Nfld: WHITTINGTON & KINDLE

#### Paleontology

Archaeocyathids, paleoecology, Nfld: FONG Paleoecology, Archaeocyathids, Nfld: FONG W Nfld: WHITTINGTON & KINDLE

#### PRECAMBRIAN

CAMBRIAN

#### Structure

Coldbrook Group, S shore N B: BROWN et al Green Bay, Nfld: CHURCH White Bay South, Nfld: CHURCH

#### Sedimentology

Green Head Group, Saint John, N B, building stone: LEE, H A

#### Stratigraphy

Coldbrook Group, S shore N B: BROWN et al

Late additions to the General List

McKERROW, W.S., S. MOORBATH Oxford, J.F. DEWEY Cambridge

- rs <u>Paleozoic rocks of Newfoundland</u>, with emphasis on comparisons with the British Isles.
- HUDGINS, A. UNB Saint John College Silurian sedimentary rocks and structure, and Carboniferous outliers, a Cobequid Mtns, N.S.

# List of Respondents' Institutions

Acadia Amherst Coll	ACADIA UNIVERSITY, Wolfville, N.S.: Moore, von Bitter. AMHERST COLLEGE, Amherst, Mass.: Belt.
Bedford I.O.	BEDFORD INSTITUTE OF OCEANOGRAPHY, Dartmouth, N.S.: Marlowe.
Cal Tech	CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena, Calif: Boucot.
Cambridge	SEDGEWICK MUSEUM, CAMBRIDGE UNIVERSITY, Cambridge, England: Dewey.
City Coll Colby Coll Columbia	CITY COLLEGE, New York City, N.Y.: Kindle. COLBY COLLEGE, Waterville, Maine: Hickox COLUMBIA UNIVERSITY, New York, N.Y.: Eastler, Helwig, Horne, Kay, Sarpi.
Dalhousie	DALHOUSIE UNIVERSITY, Halifax, N.S.: Campbell, Goodwin, Grant, Schenk.
Glasgow G.S.C.	UNIVERSITY OF GLASGOW, Glasgow, Scotland: Webb GEOLOGICAL SURVEY OF CANADA, Ottawa, Ont.: Anderson, Benson, Bolton, Copeland, Cumming, Gillis, Hacquebard, Kelley, H.A. Lee, Stevens, H. Williams.
Harvard	HARVARD UNIVERSITY, Cambridge, Mass.: Whittington.
Kansas	UNIVERSITY OF KANSAS, Lawrence, Kansas: Evans.
Manchester Massachusetts McGill	UNIVERSITY OF MANCHESTER, Manchester, England: Pollard. UNIVERSITY OF MASSACHUSETTS, Amherst, Mass.: Webb et al. McGILL UNIVERSITY, Montreal, Que.: Berry, Eakins, Mason, F.M.G. Williams
Memorial Montreal	MEMORIAL UNIVERSITY OF NEWFOUNDLAND, St. John's, Nfld: Fong, Lilly, Nautiyal, Utting. UNIVERSITE DE MONTREAL, Montréal, Que.: Béland, Lajoie, Leonard, Lespérance, Mathey.
Mt Allison	MOUNT ALLISON UNIVERSITY, Sackville, N.B.: Ferguson.
N B Mines Branch	MINES BRANCH, NEW BRUNSWICK DEPARTMENT OF LANDS AND MINES (soon to be N.B. DEPARTMENT OF NATURAL RESOURCES): Hamilton, Hay, Potter, Smith, van de Poll.
NB R.P.C.	NEW BRUNSWICK RESEARCH AND PRODUCTIVITY COUNCIL, Fredericton, N.B.: Abbott, Barnett, Sutherland.
O.D.M. Ottawa	ONTARIO DEPARTMENT OF MINES, Toronto, Ontario: McIlwaine. UNIVERSITY OF OTTAWA, Ottawa, Ont.: Dineley, Fyson, Rust, Sikander, Tuke.
Oxford	OXFORD UNIVERSITY, Oxford, England: McKerrow, Moorbath, Ziegler.
Q.D.N.R.	QUÉBEC DEPARTMENT OF NATURAL RESOURCES, Québec City, Que.: Globensky, Hubert.
U.N.B.	UNIVERSITY OF NEW BRUNSWICK, Fredericton, N.B.: Brown, de Carle, Greiner, Helmstaedt, Laming, Lee, D.T.C., Smith. At Saint John, N.B.: Hudgins.
U.S.G.S.	UNITED STATES GEOLOGICAL SURVEY, Washington, D.C.: Neuman, and Menlo Park, Calif.: Clifton.
U.S. Nat Mus	UNITED STATES NATIONAL MUSEUM, Washington, D.C.: Neuman.
Wales	UNIVERSITY COLLEGE OF SWANSEA, UNIVERSITY OF WALES, Swansea, Wales: B.P. Williams.
W Ontario	UNIVERSITY OF WESTERN ONTARIO, London, Ont.: Church.

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