

## Research Compilation: Quaternary Sediments

Brenda P. Laming

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RESEARCH COMPILATION: QUATERNARY SEDIMENTS
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Research on Recent and Pleistocene Sedimentary Deposits 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 Quaternary sedimentary deposits, both Recent and Pleistocene, in the Atlantic Region, listing all work, of any kind, that has been reported to the editors of Maritime Sediments. The Atlantic Region is defined, for the purposes of this compilation, as the Atlantic Provinces of Canada, adjacent land areas, and marine areas from Cape Cod to the Eastern Canadian Arctic and from the St. Lawrence estuary to the Mid-Atlantic Ridge.

Most of the information has been obtained in response to questionnaires answered during September and October, 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 a few are 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.

For each project, the main list shows the names of research worker(s), institutions(s) and status of research; the classified list indexes key topics. 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. Institutions of those responding to questionnaires are listed on pages 204-205.

Status of research, as reported by the questionnaire respondent, is indicated by letters at the left margin:

rs	recently started
a	active
nc	nearly complete
rc	recently completed
s	suspended, will be completed later
*	no questionnaire returned.

- ABBOTT, D. N.B.R.P.C., & T. HERBERT Michigan  
Composition of moraines in areas of subsurface mineralization, Bathurst, N.B.  
nc Investigation of heavy mineral content and rock debris in glacial deposits as a guide to mineralisation.
- ALI, S.I. Intertidal gravel bodies, Chignecto Bay: see LAMING

- ALLEN, R.C. Bell Telephone 2-ii 111  
 \* Surface properties of continental shelf sediments, southwest Nfld.
- ANDERSON, T.W. Waterloo  
 rs Palynology of postglacial deposits in Prince Edward Island.
- ANDREWS, J.T. & G. FALCONER Geog. Branch  
Isostatic recovery and changes in marine fauna in 1) Foxe Basin-  
 a involving a study of the nature of isostatic recovery and direction  
of tilting; 2) Ekalugad Fiord to Cape Hooper (Baffin Island) a study  
of the effects of local deglaciation pattern in isostatic recovery;  
3) Ottawa Islands (Hudson Bay) a study since deglaciation.
- ANTHONY, E.H. Foraminiferal ecology, Arctic: see VILKS
- ANTHONY, E.H. Foraminifera, Bras d'Or Lake: see VILKS
- AYER, N. Gulf of Maine: see RICHARDS
- BARGHOORN, E. Fresh water peat, continental shelf: see EMERY
- BARNETT, D.M. Geog. Branch  
Sublacustrine morphology of a proglacial lake. Generator Lake, central  
 a Baffin Island, N.W.T. Depths sounded through lake ice, profiles  
established close to ice-cliffs (part of Barnes Ice Cap), to discover  
presence or absence of cross-valley moraines. Preliminary plots  
show occurrences of ridges in the lake.
- BARR, S.M. Recent sediments, Cardigan Bay: see LAMING
- BARTLETT, G.A. B.I.O. 2-ii 86  
 \* Ecological studies of foraminifera in Atlantic Provinces waters.
- BEALS, H. Dalhousie 2-ii 70  
 \* Manganese-iron concretions in Nova Scotia lakes.
- BEALS, H. Kelvin Seamount and Bermuda Pedestal: see STANLEY
- BELDING, H.F. Esso 2-ii 112  
 \* Sediment and deep hole testing on the Atlantic seaboard.
- BOND, G.C. Suspended matter, coastal waters: see MANHEIM
- BORNS, H. Bay of Fundy: see SWIFT
- BOWER, M.E. Aeromagnetic surveys: see HOOD
- BUTTNER, P.J. Rochester  
Response models of shoreline complexes. Beach, along-shore bar,  
 a and lagoon study in selected shoreline areas to develop models  
(analytical and simulation) for comparison of Middle and Upper  
Devonian of New York with present day. Field and computer work.
- BYERS, D. Debert, periglacial eolian deposits: see SWIFT
- CHASE, R.L. W.H.O.I.  
Sedimentary rocks dredged from the Mid-Atlantic Ridge at 42°40'N  
 s and 45°11'N. Rocks were dredged in 1964 (R/V Chain cruise 43).  
Samples have been sent to Ruth Todd (U.S.G.S.) and T. Saito (Lamont).
- COOKE, H.B.S. Fresh water peat, continental shelf: see EMERY

CRAIG, B.C. G.S.C.

- rs Quaternary geology of Hudson Bay Lowland. One phase of a large scale all inclusive reconnaissance to be undertaken by the Survey in 1967. Almost all of this area was submerged following deglaciation so history of marine deposition and land emergence caused by isostatic readjustment is significant in the study.

DAVIES, T. Sable Island Bank: see STANLEY

- DRAPEAU, G. Dalhousie, & D.J. STANLEY Smithsonian 1-iv 2, 2-ii 85  
Terraces and the Holocene Transgression on the Nova Scotian Shelf.  
 nc Details the location and depth of terraces between the Northeast Channel and the Laurentian Channel; Holocene still-stands of sea level demonstrated; sub-bottom profiling and sediment analysis.

EMERY, K.O., J.C. HATHAWAY, J. HULSEMAN, F.T. MANHEIM, P.F. McFARLIN, A.S. MERRILL, R.M. PRATT, D.A. ROSS, J. SCHLEE, J.V.A. TRUMBULL, & E. UCHUPI W.H.O.I.; T.G. GIBSON, J.E. HAZEL & M. RUBIN U.S.G.S.; D.J. STANLEY Smithsonian; C. SCHELSKE & R.L. WIGLEY Com. Fish  
 \* W.H.O.I.-U.S.G.S. program for the Atlantic Continental Margin 2-ii 55

- EMERY, K.O. W.H.O.I.; R.L. WIGLEY Com. Fish; M. RUBIN U.S.G.S.; E. BARGHOORN Harvard; H.B.S. COOKE Dalhousie  
 nc Fresh water peat on the continental shelf. About 10 samples containing fresh water peats have been obtained from the shelf off New England at depths as great as 80 metres. Their presence serves as added information of lowered sea level during the past 12,000 years (see also EMERY, Atlantic Continental Margin)

- EMERY, K.O. W.H.O.I.; F.C. WHITMORE Jr. U.S.G.S; & D.J.P. SWIFT Puerto Rico  
 nc Elephants on the continental shelf. 30 teeth of mastodons and mammoths have been dredged from the continental shelf off New England; their presence supplements other findings related to low sea levels during the past 15,000 years. The range of variation of tooth measurements is much less than for similar collections from land, a result of the relatively short time span (20,000 to 10,000 years) represented by the samples (see also EMERY, Atlantic Continental Margin).

ESTES, A. Pollen studies, N.S. lakes: see LIVINGSTONE

FALOONER, G. Isostatic recovery, Arctic: see ANDREWS

- FEYLING-HANSEN, R.W. Aarhus  
 a Stratigraphy and fossil content of the Cape Christian cliffs, east central Baffin Island (in association with O.H. LØKEN).

FROTHINGHAM, J.R. Jr. Atlantic Continental Margin sediments: see SCHLEE

GADD, N.R. G.S.C. (66-1 p 163)  
 \* Surficial geology in the St. Sylvestre area, Québec

GIBSON, T.G. Atlantic Continental Margin: see EMERY

- GIESE, G.S. W.H.O.I.  
 rc Beach pebble movements and shape sorting: indices of swash zone mechanics

GRANT, A.C. B.I.O.

- 1) Continuous seismic profiles on the continental shelf of NE Labrador,  
 rc using CSS Hudson, July 1965.  
 2) Continuous seismic profiling, Hudson Bay, using CSS Hudson,  
 nc July-Sept. 1965. 2-i 31, 2-ii 87  
 3) Continuous seismic profiling in Ungava Bay and Hudson Strait,  
 rs using CCGS Labrador, August 1966.

GRANT, A.C. & J.M. STEWART B.I.O.

- Continuous seismic profiling, NE Newfoundland continental margin,  
 a using M/V Theta, June-July 1966.

GRANT, D.R. Cornell

- 1) Drift Dispersion, N.S. Study of lithological frequency analysis  
 rc of tills between Yarmouth and Canso are related to source areas  
 and ice currents.  
 2) Superposed Red Drumlin Till, N.S. Study of drumlin-forming  
 rc fine grained red till in coastal districts; characteristic lithologies  
 of individual drumlin fields.  
 3) "Transported" Geochemical Anomalies, N.S. Positive anomalies of  
 rc heavy metals in stream sediments along the Atlantic coast, relationship  
 to red till and to the mineralized Horton-Windsor contact.  
 4) Ice-Rafting, Scotian Shelf. Interpretation of bottom sediments  
 rc outside the Cabot Strait in relation to decay of spring drift ice,  
 and probable sources of material in the Gulf of St. Lawrence.  
 5) Laurentian Channel Sediments. Study of surficial sediments and  
 nc episodes of erosion, transport and deposition utilising heavy  
 minerals, grain size and microfauna.

HATHAWAY, J.C. & P.F. McFARLIN W.H.O.I.

- Mineralogy of continental margin sediments, N.S. to N.J. (see also  
 nc EMERY, Atlantic Continental Margin)

HAZEL, J.E. Atlantic Continental Margin: see EMERY

HERBERT, T. Moraines and mineralization, Bathurst, N.B.: see ABBOTT

HICKOX, C.F. Colby Coll.

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- \* Glacial drainage channels crossing Annapolis County, N.S.

HOOD, P.J., M.E. BOWER, & P. SAWATZKY G.S.C.

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- Aeromagnetic surveys of the continental shelves and deep ocean: Hudson  
 a Bay, Labrador Sea, Scotia Shelf, Grand Banks & Flemish Cap.

HOOPER, K. Carleton U

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- Holocene Foraminifera and sediments of Eastern Canada, including the  
 nc continental shelf.

HULSEMAN, J. W.H.O.I.

- Organic constituents of sediments of the Atlantic continental margin,  
 a N.S. to Florida. (see also EMERY, Atlantic Continental Margin)

IMPERIAL OIL LTD. Core-hole drilling, Grand Banks and Gulf of St.

- \* Lawrence: see PAN-AMERICAN

- JAMES, N. PanAm & D.J. STANLEY Smithsonian 1-iv 2, 2-ii 85  
Sediment dispersal patterns on (1) Sable Island and (2) Sable Island Bank  
 rc Distribution of sand-size material on the outer margin of the Scotian Shelf. Origin of sediment; sediment transport by wind, wave, tidal and bottom currents.
- JAMES, N. Gully submarine canyon: see STANLEY
- JONES, J.F. & P.C. TRESCOTT N.S. Mines 1-iv 25 & in this issue  
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 nc Valleys, N.S.
- JUDD, J. Gully submarine canyon: see STANLEY
- KING, C.A.M. Pebble characteristics, Baffin Is.: see PHILPOT
- KING, L.H. B.I.O. 2-ii 86  
 \* Sediment distribution map of the Scotian shelf from echograms and bottom sampling; tracing of submarine benches; laboratory separation of organic constituents.
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 a directions and flow velocity of tidal currents, Five Islands and Economy Point, Minas Basin shore, N.S. The purpose is to relate direction properties (bedforms, grain orientation) and variation in texture and mineralogy to changes of flow of tidal currents. Also a study to relate flow parameters (depth, velocity, sediment textures) to bedform scale. Bouys moored at low tide are visited during periods of submergence to monitor changes in flow direction and parameters. Sediments are sampled for textural and mineralogical analysis; box cores taken of sedimentary structures, and peels made using epoxy and hardener.
- KRANCK, K.M. B.I.O. 2-ii 86  
 \* Petrological studies of sediment and bedrock of Northumberland Strait.
- KRANCK, K.M. B.I.O., & MARINE SCIENCE CENTRE, McGill 2-ii 86  
 \* Co-operative project in Belle Isle Strait.
- KRAUSE, D.C. Rhode Island 2-ii 87  
 \* Seismic profiling of New England Continental Margin.
- KRINSLEY, D. Debert, periglacial eolian deposits: see SWIFT
- LAI, J. Gulf of Maine: see RICHARDS
- LAMING, D.J.C. U.N.B.; S.I. ALI G.S. Pakistan; & N. SZABO U.N.B.  
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 a Bay of Fundy. Study of gravel bodies in Alma and Salisbury Bays and near Cape Enragé, south shore of New Brunswick; detailed sampling and aerial photography over a period of years, continuous seismic profiling; study of texture and composition of gravels in relation to nearby glacio-fluvial deposits, buried channels and late Pleistocene events.
- LAMING, D.J.C. U.N.B. & S.M. BARR, U.N.B. 2-iii 133  
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- LAMING, D.J.C. U.N.B. & J.W. ROWLING Chevron 1-iii 1, 2-i 32,  
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 island morphology have been observed. Textural analyses to relate  
 grain size to movements of sand bodies; observation of island-building  
 processes.
- LANGILLE, J. Pleistocene geol. of N.S.: see MacNEILL
- LAUZIER, L.M. F.R.B.  
Residual bottom drift over the Continental Shelf, Canadian Atlantic  
 a coast. Bottom currents as shown by sea-bed drifters are related  
 to sedimentation. Observations are made from the Gulf of St. Lawrence  
 to Gulf of Maine and Bay of Fundy. Observations began in 1961 and  
 are continued.
- LEE, H.A. G.S.C. (66-1 p 168)  
 \* The Grand Falls morainic system, N.B.
- LIVINGSTONE, D., A. ESTES & M. STEWART Duke  
Pollen studies of Nova Scotia lakes - interglacial, late-glacial and  
 a post-glacial deposits from Eastern Canada (mostly lacustrine from  
Nova Scotia)
- LØKEN, O.H. Geog. Branch  
Geomorphology and Pleistocene chronology of east central Baffin Island  
 a 1) glacial landforms and raised shore features 2) submarine geo-  
 morphology of the fiords and adjacent parts of the continental  
 terrace 3) till fabric and pebble characteristics of drift deposits
- LORING, D.H., & C.J.G. NOTA B.I.O.  
Geomorphology, sedimentology and geochemistry of the Gulf of St. Lawrence  
 a Begun in 1961, 1) depositional condition in the river and gulf,  
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- LYALL, A. Bay of Fundy: see SWIFT
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- MCDONALD, V.J. Gulf of Maine: see RICHARDS
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- McMASTER, R.L. Rhode Island 2-ii 111  
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- McMULLEN, R.M. B.I.O. 2-iii 131  
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- MacNEILL, R.H., E. MacQUARRIE, K. PHILLIPS & J. LANGILLE N.S.R.F.  
 nc Pleistocene Geology of Nova Scotia - active work for 16 years; pre-  
 liminary surficial mapping on mainland areas expected to be complete  
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- MacQUARRIE, E. Pleistocene geol of N.S.: see MacNEILL
- MANHEIM, F.T., R.H. MEADE, J.V.A. TRUMBULL, G.C. BOND, & E. UCHUPI W.H.O.I.  
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- MARINE SCIENCE CENTRE, McGill Belle Isle Strait: see KRANCK
- MARLOWE, J.I. B.I.O. 2-ii 87  
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- MEADE, R.H. Suspended matter, coastal waters: see MANHEIM
- MEDIOLI, F. Halifax Harbour, N.S.: see STANLEY
- MEDIOLI, F. Kelvin Seamount and Bermuda Pedestal: see STANLEY
- MEDIOLI, F. Sable Island Bank: see STANLEY
- MERRILL, A.S. Atlantic Continental Margin: see EMERY
- MILLER, J. Dalhousie 2-ii 84  
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- MOORE, M.C. Gulf of Maine: see RICHARDS
- MOTT, R.J. G.S.C.  
 rc Palynology of postglacial and late Pleistocene deposits in Cape  
 Breton Island.
- NOTA, D.J.G. Gulf of St. Lawrence: see LORING
- O'BRIEN, N.R. N.Y.S.U.  
 a Diatoms in the Leda Clay (Pleistocene), St. Lawrence River Valley,  
 near Massena, N.Y. - Electron microscope investigation indicates  
 presence of nannofossil diatoms, size ranges less than 1 micron to  
 6 microns in diameter; paleoecological significance of the diatoms  
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- OLSON, R. Gulf of Maine: see RICHARDS
- PAN-AMERICAN PETROLEUM CORP. & IMPERIAL OIL LTD. 2-i 34  
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- PAUL, R. Shallow structure, continental margin: see UCHUPI
- PELLETIER, B.R. B.I.O. 2-ii 87  
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 Ellef Ringnes and Borden Islands, Franklin District, N.W.T. Physical  
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- PELLETIER, B.R. & F.J.E. WAGNER, B.I.O.  
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- PHILLIPS, K. Pleistocene geol. of N.S.: see MacNEILL
- PHILPOT, J.T. Geog. Branch & C.A.M. KING Nottingham  
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- PHIPPS, C. Sydney 1-iii 35  
\* Sedimentological & geochemical study of sediments on Continental Shelf  
E. of Halifax.
- PHIPPS, D. McGill  
Equilibrium between sodium and clay minerals in the marine environment  
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the rates of attainment of equilibrium; recent marine clays will also  
be analysed.
- PICKETT, T.E. Kelvin Seamount and Bermuda Pedestal: see STANLEY
- PISKIN, R. Gulf of Maine: see RICHARDS
- PLEISTOCENE GEOLOGY SECTION G.S.C. 1-iv 21  
\* New Glacial Map of Canada, one of a series for issue in Centennial  
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- PRADA, K. Shallow structure, continental margin: see UCHUPI
- PRATT, R.M. Atlantic Continental Margin sediments: see SCHLEE
- RICHARDS, A.F., R. OLSON, N. AYER, R. PISKIN, J. LAI, V.J. McDONALD,  
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Mass physical and engineering properties of Wilkinson Basin sediments,  
a Gulf of Maine. Laboratory study of large-diameter cores and measurement  
in place on sea-floor of shear strength (vane shear probe) bulk  
density (gamma-ray transmission probe) and pore pressure (piezometer  
probe).
- ROSS, D.A. Atlantic Continental Margin: see EMERY
- ROWLING, J.W. Recent sediments, Rustico Harbour: see LAMING
- RUBIN, M. Fresh water peat, continental shelf: see EMERY
- SANDERS, J.E. Hudson Labs 2-i 23  
\* Geological Calibration Attempt of Side-Looking Sonar, Minas Basin, N.S.
- SAWATZKY, P. Aeromagnetic surveys: see HOOD
- SCHELSKE, P. Atlantic Continental Margin: see EMERY

- SCHLEE, J.S., J.R. FROTHINGHAM Jr., R.M. PRATT W.H.O.I.  
Texture of the Atlantic Continental Margin sediments, grain size of  
 nc bottom sediment samples collected on a 10-mile grid over shelf and  
 slope. (see also EMERY, Atlantic Continental Margin)
- SCHWARTZ, M. Brooklyn Coll. 1-iv 11  
Beach observations along E coast of N.S. to determine patterns of  
 a tidal-cycle sedimentation in the littoral zone. Indian Harbour and  
 Smith Cove, Guysborough Co. chosen because of minimal shore-drift  
 characteristics. Fluorescent tracers were injected in depth and  
 samples taken in sequence along the beach profile.
- SHEARER, J. Memorial  
Recent sediment distribution in Port-au-Port Bay, Newfoundland.  
 a Mineralogy and texture of the bottom sediments to be compared with  
 mineralogy and texture of the beach and Pleistocene deposits with the  
 hope of establishing a source; also weathering and erosive processes  
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- SILVERBERG, N. Sable Island Bank: see STANLEY
- STANLEY, D.J. Smithsonian 2-iii 135  
 \* Color of sediments on the Atlantic continental margin (see also  
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- STANLEY, D.J. Smithsonian 2-iii 134  
 \* Statistical analysis of coastal sand deposits (see also BUTNER)
- STANLEY, D.J. et al Smithsonian  
Submarine geology of the Nova Scotian continental shelf and slope. A  
 a long term project concerned with origin and distribution of sediments,  
 bottom and sub-bottom morphology; ice-rafting, submarine canyon sedi-  
 mentation, reconstruction of the Holocene transgression and sedimentary  
 dispersal patterns.
- STANLEY, D.J. Smithsonian; T. DAVIES S. Carolina; F. MEDIOLI Dalhousie;  
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- STANLEY, D.J. Smithsonian; N. JAMES PanAm; & J. JUDD Rutgers 1-iv 2,  
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 1) the sediment types found and how materials move downslope; 2) how  
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 during the Holocene transgression and in recent time. Evidence of  
 turbidite and non-turbidite movement.
- STANLEY, D.J. Smithsonian & D.J.P. SWIFT Puerto Rico  
Concretions on Georges Bank. Origin, distribution, petrography  
 nc and contained fossils.
- STANLEY, D.J. Smithsonian, & F. MEDIOLI Dalhousie 2-ii 86, 2-iii 134  
 \* Sediment and foraminiferal dispersal patterns in the Northwest Arm,  
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- STANLEY, D.J., T.E. PICKETT Smithsonian; D.J.P. SWIFT Puerto Rico;  
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\* Morphology and sediment distribution of Kelvin Seamount chain (39°N  
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- STANLEY, D.J. Sable Island: see JAMES
- STANLEY, D.J. Terraces, N.S. Shelf: see DRAPEAU
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- STEWART, M. Pollen studies, N.S. lakes: see LIVINGSTONE
- SWIFT, D.J.P. Puerto Rico; R.M. McMULLEN B.I.O.; A. LYALL Dalhousie;  
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a 2) Geometry and primary structures of tide-maintained sand bodies,  
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- SWIFT, D.J.P. Puerto Rico; D. BYERS Phillips; & D. KRINSLEY Queens Coll  
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- SWIFT, D.J.P. Kelvin Seamount and Bermuda Pedestal: see STANLEY
- SWIFT, D.J.P. Sable Island Bank: see STANLEY
- SZABO, N. Intertidal gravel bodies, Chignecto Bay: see LAMING
- TAGG, R. Shallow structure, continental margin: see UCHUPI
- TERASMAE, J. G.S.C. 1-ii 19  
1) Palynology of postglacial deposits in Rivière-du-Loup, Québec, to  
nc Fredericton, N.B.  
2) Palynological and paleobotanical study of samples of submerged peat  
a near Sable Island.
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Texture, mineralogy and origin of surface sediments in the Gulf of St.  
a Lawrence, Québec. Mud samples taken of Chaleur Bay and between Gaspé  
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- TRESCOTT, P.C. Surficial geol, parts N.S.: see JONES
- TRUMBULL, J.V.A. Suspended matter, coastal waters: see MANHEIM
- UCHUPI, E., R. TAGG, R. PAUL, K. PRADA W.H.O.I. 2-iii 117  
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nc seismic profiles, about 16,000 km have been recorded; the 10,500  
joule sparker used has given penetrations of 0.5 - 1 km. This struc-  
tural section probably represents the entire Tertiary. Throughout  
this time the continental slope in the area appears to have been  
formed by sediment progradation seaward. This deltaic structure was  
modified during the Pleistocene by cutting of canyons along the  
slope (see also EMERY, Atlantic Continental Margin)
- UCHUPI, E. Suspended matter, coastal waters: see MANHEIM

- VILKS, G. B.I.O.  
rs Foraminifera of the Hecla and Gripes Bays and Hazen Strait, N.W.T.
- VILKS, G. & E.D. ANTHONY B.I.O.  
nc Distribution studies of foraminifera in Bras d'Or Lake, Cape Breton Island Variance and mean of population counts was used to study the micro-distribution of benthic Foraminifera. Analysis of variance applied to study of temporal and lateral changes in counts. Association analysis used to study ecological discontinuities in the area.
- VILKS, G., E.H. ANTHONY, & W.T. WILLIAMS B.I.O.  
rc Application of association analysis to a survey of the sediment fauna of an Arctic Basin. The use of a statistical model in the studies of foraminiferal ecology was tested.
- WAGNER, F.J.E. B.I.O. 2-ii 86  
\* Fossils of the ancient Champlain Sea
- WAGNER, F.J.E. Jones Sound, N.W.T.: see PELLETIER
- WAGNER, F.J.E. Marine geology, Hudson Bay: see PELLETIER
- WHITMORE, F.C. Jr. Elephants, continental shelf: see EMERY
- WIGLEY, R.L. Fresh water peat, continental shelf: see EMERY
- WILLIAMS, W.T. Foraminiferal ecology, Arctic: see VILKS
- YORATH, C. Queen's 1-iii 35  
\* Sedimentological, foraminiferal & ecological study of Scotian Shelf, E. of Halifax.
- ZEIGLER, J. W.H.O.I. 2-ii 111  
\* Coastal dynamics, velocity profile in the zone of shoaling waves, genesis of coastal currents and mechanics of ripple motions.

### GEOGRAPHICAL INDEX

Key words from all items in the main list are indexed here according to area and main field of study. Geographical division of the continental shelf gives six marine areas, plus another for deep sea work. Land locations are listed under the adjacent marine area.

### GULF OF MAINE

including Cape Cod and Georges Bank areas.

#### Recent Sediments

Atlantic Continental Margin program:  
EMERY et al  
Beach pebble movements & shape  
sorting: GIESE

Block I Sound, sediments: McMASTER  
Bottom currents & sedimentation,  
Gulf of Maine: LAUZIER  
Coastal currents: ZIEGLER  
Coastal dynamics: ZIEGLER  
Coastal sand deposits, statistical  
analysis: STANLEY

Colour of sediments, Continental margin: STANLEY  
 Concretions, Georges Bank: STANLEY & SWIFT  
 Continental margin, colour of sediments: STANLEY  
 Continental Margin, mineralogy of sediments: HATHAWAY & McFARLIN  
 Continental margin, texture of sediments: SCHLEE et al  
 Continental margin, shallow structure: UCHUPI et al  
 Georges Bank, concretions: STANLEY & SWIFT  
 Georges Bank to Hudson Canyon, sediments: McMASTER  
 Gulf of Maine, bottom currents & sedimentation: LAUZIER  
 Hudson Canyon to Georges Bank, sediments: McMASTER  
 Mineralogy, Continental Margin sediments: HATHAWAY & McFARLIN  
 Narragansett Bay, sediments: McMASTER  
 Peat on shelf: EMERY et al  
 Response models, shoreline complexes: BUTTNER  
 Rhode I Sound, sediments: McMASTER  
 Ripple motions, coastal: ZIEGLER  
 Sea level changes, peat on shelf: EMERY et al  
 Shallow structure, continent margin: UCHUPI et al  
 Shape sorting & beach pebble movements: GIESE  
 Shoreline complexes, response models: BUTTNER

Statistical analysis, coastal sand deposits: STANLEY  
 Suspended matter in coastal surface waters: MANHEIM et al  
 Swash zone mechanics: GIESE  
 Texture of sediments, Continental Margin: SCHLEE et al  
 Wave motions, coastal: ZIEGLER

### Pleistocene Geology

Atlantic Continental Margin program: EMERY et al

### Paleontology

Atlantic Continental Margin program: EMERY et al  
 Elephants on shelf: EMERY et al

### Other

Atlantic Continental Margin, organic constituents: HULSEMAN  
 Engineering properties, Wilkinson Basin sediments, Gulf of Maine: RICHARDS et al  
 Mineralogy, Continental Margin sediments: HATHAWAY & McFARLIN  
 New England continental margin, seismic profiling: KRAUSE  
 Organic constituents, Atlantic Continental Margin: HULSEMAN  
 Seismic profiling, New England continental margin: KRAUSE  
 Wilkinson Basin sediments, Gulf of Maine, engineering & physical properties: RICHARDS et al

## BAY OF FUNDY

### Recent Sediments

Annapolis Valley, NS, groundwater geology: JONES & TRESCOTT  
 Bay of Fundy, sediments: SWIFT et al  
 Bottom currents & sedimentation, Bay of Fundy: LAUZIER  
 Chignecto Bay, gravel bodies: LAMING & SZABO  
 Cornwallis Valley, NS, groundwater geology: JONES & TRESCOTT  
 Economy Point, intertidal zone sediments: KLEIN  
 Five Islands, intertidal zone sediments: KLEIN

Gravel bodies, Chignecto Bay: LAMING & SZABO  
 Intertidal gravels, Chignecto Bay: LAMING & SZABO  
 Intertidal zone sediments, Five Islands, Economy Point, Minas Basin shore: KLEIN  
 Minas Basin shore, intertidal zone sediments: KLEIN  
 Suspended sediment transport in Bay of Fundy: MILLER  
 Tidal currents & intertidal zone sediments, Five Islands, Economy Point & Minas Basin: KLEIN

Tide-maintained sand bodies, E Bay of Fundy: SWIFT et al  
 Transport of suspended sediment in Bay of Fundy: MILLER

### Pleistocene Geology

Annapolis Co, NS, glacial drainage channels: HICKOX  
 Annapolis Valley, NS, surficial geology: JONES & TRESCOTT  
 Bay of Fundy, sedimentation & stratigraphy: SWIFT et al  
 Cornwallis Valley, NS, surficial geology: JONES & TRESCOTT

Debert, periglacial eolian deposits: SWIFT et al  
 Eolian periglacial deposits, Debert: SWIFT et al  
 Glacial drainage channels, Annapolis Co, NS: HICKOX  
 Nova Scotia, Pleistocene geology: McNEILL et al

### Other

Groundwater geology, Annapolis & Cornwallis valleys: JONES & TRESCOTT  
 Sonar, side-looking, calibration, Minas Basin: SANDERS

## SCOTIAN SHELF

### Recent Sediments

Bottom currents & sedimentation, Scotian Shelf: LAUZIER  
 Continental shelf E of Halifax, sedimentology: PHIPPS C.  
 Continental shelf, E of Halifax, sedimentology: YORATH  
 Continental shelf & slope, submarine geology: STANLEY et al  
 Dispersal patterns of sediments, Sable I & Sable I bank: JAMES & STANLEY  
 Distribution of sediments, Scotian Shelf: KING L.H.  
 Eastern shore NS, littoral zone: SCHWARTZ  
 Gully submarine canyon, sediment transport: STANLEY et al  
 Halifax Harbour, sediment dispersal: STANLEY & MEDIOLI  
 Holocene Transgression, Scotian Shelf: DRAPEAU & STANLEY  
 Littoral zone, tidal-cycle sedimentation, E shore NS: SCHWARTZ  
 Organic constituents in Scotian shelf sediment: KING L.H.  
 Sable I & Sable I Bank, sediment dispersal patterns: JAMES & STANLEY  
 Scotian Shelf, bottom currents & sedimentation: LAUZIER  
 Scotian Shelf, sediment distribution map: KING L.H.  
 Submarine geology, continental shelf & slope: STANLEY et al  
 Tidal-cycle sedimentation, littoral zone, E shore NS: SCHWARTZ

### Pleistocene Geology

Drift dispersion, NS: GRANT D.R.  
 Drumlin till, NS: GRANT D.R.  
 Drumlins & tills, SW N S, variation in content: MacNEILL  
 Gully submarine canyon, sediment transport: STANLEY et al  
 Ice-rafting, Scotian shelf: GRANT D.R.  
 Nova Scotia, Pleistocene geology: MacNEILL et al  
 Terraces, Scotian Shelf: DRAPEAU & STANLEY  
 Till, red drumlin, NS: GRANT D.R.  
 Tills & drumlins, SW N S, variation in content: MacNEILL

### Paleontology

Bras d'Or L, Cape Breton, foraminifera distribution: VILKS & ANTHONY  
 Cape Breton, Bras d'Or L, foraminifera distribution: VILKS & ANTHONY  
 Cape Breton, palynology of post-glacial & late Pleistocene: MOTT  
 Continental shelf, E of Halifax, foraminifera & ecology: YORATH  
 Ecology, foraminifera, Atlantic Provinces waters: BARTLETT  
 Foraminifera, Atlantic Province waters: BARTLETT  
 Foraminifera distribution, Bras d'Or L, Cape Breton: VILKS & ANTHONY  
 Foraminifera & ecology, continental shelf E of Halifax: YORATH  
 Halifax Harbour, foraminiferal dispersal: STANLEY & Medioli

Lakes in NS, palynology:

LIVINGSTONE et al

Palynology, NS Lakes: LIVINGSTONE et al

Palynology of postglacial & late

Pleistocene, Cape Breton I: MOTT

Palynology of submerged peat, Sable I: TERASMAE

Peat, submerged near Sable I, palynology: TERASMAE

Sable I, palynology of submerged peat: TERASMAE

### Other

Aeromagnetic survey, Scotian Shelf:

HOOD et al

Concretions, N.S. lakes: BEALS

Continental shelf E of Halifax, geochemistry of sediments: PHIPPS C.

Geochemistry of sediments, contin-

ental shelf E of Halifax: PHIPPS C.

Geochemical stream anomalies, NS: GRANT D.R.

Manganese-iron concretions, NS lakes: BEALS

Scotian Shelf, aeromagnetic survey: HOOD et al

Stream sediments, geochemical anomalies, NS: GRANT D.R.

## GULF OF ST. LAWRENCE

including St. Lawrence River Valley, Cabot Strait, and west coast of Newfoundland

### Recent Sediments

Anticosti I - Gaspé bottom sediments study: TIPHANE

Beach mineralogy & texture, Port-au-Port Bay: SHEARER

Belle Isle Strait: KRANCK & MCGILL

Bottom currents & sedimentation, Gulf of St. Lawrence: LAUZIER

Cardigan Bay, P E I, sediments: LAMING & BARR

Chaleur Bay, sedimentology: TIPHANE

Core hole drilling, Gulf of St.

Lawrence: PAN-AMERICAN & IMPERIAL

Fredericton, N.B. to Rivière-du-Loup Qué, palynology, postglacial deposits: TERASMAE

Gaspé-Anticosti I, bottom sediments study: TIPHANE

Gulf of St. Lawrence, bottom currents & sedimentation: LAUZIER

Gulf of St. Lawrence, core hole drilling: PAN-AMERICAN & IMPERIAL

Gulf of St. Lawrence, mineralogy & geochemistry of sediments: LORING & NOTA

Island morphology, Rustico Harbour, P E I: LAMING & ROWLING

Laurentian Channel sediments: GRANT D.R.

Mineralogy of sediments, Gulf of St. Lawrence: LORING & NOTA

Mineralogy & texture of sediments, Port-au-Port Bay: SHEARER

Northumberland Strait, petrology of sediments: KRANCK

Port-au-Port Bay, mineralogy & texture of sediments: SHEARER

Post glacial deposits, P E I, palynology: ANDERSON

Rivière-du-Loup, Qué. to Fredericton N B, palynology, postglacial deposits: TERASMAE

Rustico Harbour, P E I, sediments: LAMING & ROWLING

Surface properties, continental shelf sediments, SW Nfld: ALLEN  
SW Nfld continental shelf sediments, surface properties: ALLEN

### Pleistocene Geology

Bathurst, N B, moraines, heavy minerals: ABBOTT & HERBERT

Champlain Sea, fossils: WAGNER

Grand Falls, N B, moraines: LEE

Moraines, Grand Falls, N B: LEE

Moraines, heavy minerals, Bathurst N B: ABBOTT & HERBERT

Pleistocene deposits, Port-au-Port Bay: SHEARER

Richmond-Sherbrooke region, Qué,

Pleistocene geology: McDONALD B.G.

Sherbrooke-Richmond region, Qué,

Pleistocene geology: McDONALD B.G.

St. Sylvestre area, Qué, surficial geology: GADD

Paleontology

Diatoms, Leda Clay, St. Lawrence R valley, N Y: O'BRIEN  
 Ecology, foraminifera, Atlantic Provinces waters: BARTLETT  
 Foraminifera, Atlantic Provinces waters: BARTLETT  
 Laurentian Channel microfauna: GRANT D.R.  
 Leda Clay, St. Lawrence R valley N Y, diatoms: O'BRIEN  
 Palynology, postglacial deposits, P E I: ANDERSON

Palynology, Rivière-du-Loup, Qué to Fredericton N B: TERASMAE  
 St. Lawrence R valley, diatoms in Leda Clay, Massena, N Y: O'BRIEN

Other

Geochemistry, Gulf of St. Lawrence: LORING & NOTA  
 Geomorphology, Gulf of St. Lawrence: LORING & NOTA  
 Gulf of St. Lawrence, geomorphology, & geochemistry: LORING & NOTA

N.E. NEWFOUNDLAND, LABRADOR SHELF AND GRAND BANKSRecent Sediments

Core hole drilling, Grand Banks: PAN-AMERICAN & IMPERIAL  
 Grand Banks, core-hole drilling: PAN-AMERICAN & IMPERIAL  
 Mineralogy of sediments, Grand Banks: McMULLEN  
 Grand Banks, bottom sediments: McMULLEN

Other

Aeromagnetic survey, Grand Banks, Flemish Cap & Labrador Sea: HOOD et al

Continental shelf, NE Nfld, seismic profiling: GRANT A.C. & STEWART  
 Flemish Cap, aeromagnetic survey: HOOD et al  
 Grand Banks, aeromagnetic survey: HOOD et al  
 Labrador Sea, aeromagnetic survey: HOOD et al  
 Labrador shelf NE, seismic profiles: GRANT A.C.  
 Nfld NE, continental shelf, seismic profiling: GRANT A.C. & STEWART  
 Seismic profiles, NE Labrador shelf: GRANT A.C.  
 Seismic profiling, NE Nfld continental margin: GRANT A.C. & STEWART

EASTERN ARCTIC

including Hudson Bay

Recent Sediments

Baffin I, Ekalugad Fiord, pebble characteristics: PHILPOT & KING  
 Baffin Bay sediments, mineralogy & relation to ancient currents: MARLOWE  
 Bottom topography, Jones Sound, N W T PELLETIER & WAGNER  
 Bottom topography & sediments, Polar continental shelf, Ellef Ringnes I to Borden I, N W T: PELLETIER  
 Ekalugad Fiord, Baffin I, pebble characteristics: PHILPOT & KING  
 Ellef Ringnes I to Borden I, N W T Polar continental shelf: PELLETIER

Gripes Bay, Qu. Elizabeth Is, N W T, bottom sediments: McMULLEN  
 Hecla Bay, Qu. Elizabeth Is, N W T, bottom sediments: McMULLEN  
 Hudson Bay, submarine topography & sediments: PELLETIER et al  
 Jones Sound, N W T, bottom topography: PELLETIER & WAGNER  
 Mineralogy of Baffin Bay sediments: MARLOWE  
 Pebble characteristics, Ekalugad Fiord, Baffin I: PHILPOT & KING  
 Polar continental shelf, Ellef Ringnes I to Borden I, N W T: PELLETIER

Sub-bottom studies, Hudson Bay:  
 PELLETIER et al  
 Submarine topography, Hudson Bay:  
 PELLETIER et al

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Baffin I, Cape Christian cliffs,  
 Pleistocene chronology: FEYLING-  
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 Baffin I, geomorphology, pleistocene  
 chronology, raised beaches, fiord  
 & shelf morphology, till fabrics:  
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 Baffin I, isostatic recovery:  
 ANDREWS & FALCONER  
 Baffin I, sublacustrine morphology,  
 Generator L: BARNETT  
 Cape Christian, Baffin I, Pleist-  
 ocene chronology: FEYLING-HANSSSEN  
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 central Baffin I: LØKEN  
 Deglaciation, Baffin I & Hudson  
 Bay: ANDREWS & FALCONER  
 Foxe Basin, isostatic recovery:  
 ANDREWS & FALCONER  
 Fiords, Baffin I: LØKEN  
 Generator L, Baffin I, moraines in  
 lake: BARNETT  
 Geomorphology, Baffin I: LØKEN  
 Hudson Bay Lowland, isostatic read-  
 justment & marine deposition: CRAIG  
 Isostatic readjustment, Hudson Bay  
 Lowland: CRAIG  
 Isostatic recovery, Foxe Basin,  
 Baffin I, Hudson Bay: ANDREWS &  
 FALCONER  
 Jones Sound, N W T, bottom topo-  
 graphy: PELLETIER & WAGNER  
 Marine deposition, Hudson Bay  
 Lowland: CRAIG  
 Moraines, Generator L. Baffin I:  
 BARNETT  
 Ottawa Is, isostatic recovery:  
 ANDREWS & FALCONER

Pleistocene chronology, Baffin I:  
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 Proglacial lake, Generator L, Baffin  
 I: BARNETT  
 Raised beaches, Baffin I: LØKEN  
 Till fabrics, Baffin I: LØKEN

### Paleontology

Baffin I, Cape Christian cliffs,  
 fossils & stratigraphy: FEYLING-  
 HANSSSEN  
 Foraminifera, Hecla & Gripes Bays &  
 Hazen Strait, N W T: VILKS  
 Foraminiferal ecology, statistical  
 model in arctic basin: VILKS et al  
 Gripen Bay, N W T, foraminifera:  
 VILKS  
 Hazen Strait, N W T, foraminifera:  
 VILKS  
 Hecla Bay, N W T, foraminifera:  
 VILKS  
 Hudson Bay, fauna: PELLETIER et al  
 Marine faunal changes, Foxe Basin,  
 Baffin I, Hudson Bay: ANDREWS &  
 FALCONER

### Other

Aeromagnetic survey, Hudson Bay:  
 HOOD et al  
 Hudson Bay, aeromagnetic survey:  
 HOOD et al  
 Hudson Bay, seismic profiling:  
 GRANT A.C.  
 Hudson Strait & Ungava Bay, seismic  
 profiling: GRANT A.C.  
 Seismic profiling, Hudson Bay:  
 GRANT A.C.  
 Seismic profiling, Ungava Bay &  
 Hudson Strait: GRANT A.C.  
 Ungava Bay & Hudson Strait, seismic  
 profiling: GRANT A.C.

### DEEP SEA

from the continental slope to the Mid-Atlantic Ridge

### Recent Sediments

Bermuda Pedestal & Apron and the  
 Bermuda Is, morphology & sediment  
 distribution: STANLEY et al

Continental slope and rise S of  
 Sable I Bank: STANLEY et al  
 Kelvin Seamount chain, morphology &  
 sediment distribution: STANLEY  
 et al

Paleontology

Continental slope and rise S of  
Sable I Bank, faunal content:  
STANLEY et al

Other

Mid-Atlantic Ridge, sedimentary  
rocks: CHASE  
Sedimentary rocks dredged from Mid-  
Atlantic Ridge: CHASE

GENERAL STUDIES IN THE REGIONRecent Sediments

Atlantic seaboard, deep-hole tests:  
BELDING  
Holocene foraminifera & sediments  
E. Canada: HOOPER

Paleontology

Foraminifera, Holocene, E. Canada:  
HOOPER

OtherPleistocene Geology

Atlantic seaboard, deep-hole tests:  
BELDING  
Glacial Map of Canada, new: PLEISTO-  
CENE GEOL. SECTION G.S.C.

Clay minerals & sodium equilibrium  
in marine environment: PHIPPS D.  
Sonar, side-looking, calibration:  
SANDERS

Late addition to general list

MALLICK, K.A. McGill

Weathering of rocks and mobility of elements in soil profiles of  
nc Mont St. Hilaire, Que. 1) relative effect of mechanical and  
chemical transportation of overburden under varying drainage and  
topographic conditions and on different rock types. 2) correspondence  
between bedrock and soil composition

LIST OF RESPONDENTS' INSTITUTIONS

Aarhus	AARHUS UNIVERSITY, Denmark: Feyling-Hanssen.
Acadia	ACADIA UNIVERSITY, Wolfville, N.S.: MacNeill.
B.I.O.	BEDFORD INSTITUTE OF OCEANOGRAPHY, Dartmouth, N.S.: Anthony, Bartlett, A.C. Grant, L.H. King, Kranck, Loring, McMullen, Marlowe, Pelletier, J M. Stewart, Vilks, Wagner, Williams.
Brooklyn Coll.	BROOKLYN COLLEGE, Brooklyn, N Y.: Schwartz.
Carleton	CARLETON UNIVERSITY, Ottawa, Ont: Hooper.
Chevron	CHEVRON STANDARD LIMITED, Calgary, Alberta: Rowling
Cornell	CORNELL UNIVERSITY, Ithaca, N.Y.: D.R. Grant.
Com. Fish.	BUREAU OF COMMERCIAL FISHERIES, Woods Hole, Mass.: Schelske, Wigley.
Dalhousie	DALHOUSIE UNIVERSITY, Halifax, N S.: Beals, Cooke, Medioli
Duke	DUKE UNIVERSITY, Durham, N. Carolina: Estes, Livingstone M. Stewart.
Geog. Branch	GEOGRAPHICAL BRANCH, DEPARTMENT OF ENERGY, MINES & RESOURCES, Ottawa, Ont: Andrews, Barnett, Falconer, Løken, Philpot.

G.S.C.	GEOLOGICAL SURVEY OF CANADA, Ottawa, Ont.: Bower, Craig, Gadd, Hood, Lee, B.G. McDonald, Mott, Sawatzky, Terasmae.
G.S. Pakistan	GEOLOGICAL SURVEY OF PAKISTAN, Quetta, W. Pakistan: Ali
Harvard	HARVARD UNIVERSITY, Cambridge, Mass.: Barghoorn.
Hudson Labs	HUDSON LABORATORIES OF COLUMBIA UNIVERSITY, Dobbs Ferry, N.Y.: Klein, Sanders.
Illinois	UNIVERSITY OF ILLINOIS, Urbana, Ill.: Ayer, Lai.
Maine	UNIVERSITY OF MAINE, Orono, Maine: Borns.
McGill	MCGILL UNIVERSITY, Montreal, Que.: Mallik, D. Phipps.
Memorial	MEMORIAL UNIVERSITY OF NEWFOUNDLAND, St. John's, Nfld.: Shearer.
Michigan	MICHIGAN STATE UNIVERSITY, East Lansing, Mich.: Herbert.
Montreal	UNIVERSITY OF MONTREAL, Montréal, Qué.: Tiphane
N.B.R.P.C.	NEW BRUNSWICK RESEARCH & PRODUCTIVITY COUNCIL, Fredericton, N.B.: Abbott.
Nottingham	UNIVERSITY OF NOTTINGHAM, Nottingham, England: C.A.M. King.
N.S. Mines	NOVA SCOTIA DEPARTMENT OF MINES, Halifax, N.S.: Jones, Trescott.
N.S.R.F.	NOVA SCOTIA RESEARCH FOUNDATION, Halifax, N.S.: Langille, MacNeill, MacQuarrie, Phillips.
N.Y.S.U.	STATE UNIVERSITY OF NEW YORK, Potsdam, N.Y.: O'Brien.
Pan Am	PAN AMERICAN PETROLEUM CORPORATION, Calgary, Alberta: James
Pennsylvania	UNIVERSITY OF PENNSYLVANIA, Philadelphia, Penn.: Klein.
Puerto Rico	PUERTO RICO NUCLEAR CENTER, Mayaguez, Puerto Rico: Swift.
Rochester	UNIVERSITY OF ROCHESTER, Rochester, N.Y.: Buttner
Rhode Is.	UNIVERSITY OF RHODE ISLAND, Kingston, R.I.: Krause, McMaster.
Rutgers	RUTGERS UNIVERSITY, New Brunswick, N.J.: Judd.
S. Carolina	UNIVERSITY OF SOUTH CAROLINA, Columbia, S. Carolina: Davies
Smithsonian	SMITHSONIAN INSTITUTION, United States National Museum, Washington, D.C.: Pickett, Stanley.
Washington	UNIVERSITY OF WASHINGTON, Seattle, Washington: Silverberg.
U.N.B.	UNIVERSITY OF NEW BRUNSWICK, Fredericton, N.B.: Barr, Laming, Szabo.
U.S.G.S.	UNITED STATES GEOLOGICAL SURVEY, Washington, D.C.: Gibson, Hazel, Rubin, Whitmore Jr.
Waterloo	UNIVERSITY OF WATERLOO, Waterloo, Ontario: Anderson.
W.H.O.I.	WOODS HOLE OCEANOGRAPHIC INSTITUTION, Woods Hole, Mass.: Bond, Chase, Emery, Frothingham, Giese, Hathaway, Hülseman, Manheim, McFarlin, Meade, Merrill, Paul, Prada, Pratt, Ross, Schlee, Tagg, Trumbull, Ziegler.
F.R.B.	FISHERIES RESEARCH BOARD OF CANADA, Biological Station, St. Andrews, N.B.: Lauzier.

ADDENDUM

Several questionnaires were returned for projects outside the compilation area, and are listed below as an addendum. They are not included in the classified index or index of institutions.

KRAFT, J.C. University of Delaware

- a Geology of the sediments and microfauna of the coastal environments of Delaware

MANHEIM, F.T. W.H.O.I.

- Interstitial waters and chemical composition of JOIDES cores  
nc Joint Oceanographic Institutions Deep Earth Sampling drillings off Florida, 1965.

MANHEIM, F.T., R.M. PRATT & P.F. McFARLIN W.H.O.I.

- Composition and mineralogy of manganese and phosphate deposits of  
a Blake Plateau.

PILKEY, O.H., P.M. TERLECKY, L.J. DOYLE, E.L. ESTES & W.C. CLEARY Duke University, Beaufort, N.C. 1-iv 11

- Carbonate sedimentation on the Atlantic continental shelf of the  
a SE U.S. Aspects of the carbonate fraction under study include size distribution, mineralogy, roundness, organic and inorganic components, ratios of old to fresh shells, broken to whole shells, abundance of black shells, etc.

SCHUBEL, J.R. Johns Hopkins University, Baltimore, Md.

- Suspended sediment in Upper Chesapeake Bay. The load, mineralogical  
a composition and size distribution are being determined as well as the relative contributions to the total load from various sources.

ANNOUNCEMENT
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UNIVERSITY OF NEW BRUNSWICK

Staff Vacancies in the Department of Geology

Appointments are to be made to the teaching staff of the Department of Geology, commencing in Fall 1967. The present staff consists of seven permanent and two visiting professors. Preference will be given to applications from persons qualified in the following fields:

Geophysics

Geochemistry

Stratigraphy

Persons applying should give details of qualifications, current research activity, publications, and the names of three referees. Applications should be sent to the Chairman, Department of Geology, University of New Brunswick, Fredericton, N.B., Canada, preferably before 1st February, 1967.