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Bibliography of Publications  
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compiled by

A. G. Sherin (1), A. Samson (2), J. E. Sutherland (3) and S. Merchant (1)

Geological Survey of Canada Open File  
1443

- (1) Department of Energy, Mines and Resources, Geological Survey of Canada, Atlantic Geoscience Centre, Program Support, Bedford Institute of Oceanography, Dartmouth, N.S.
- (2) Biblio-Tech Ltd., Three Fathom Harbour, N.S.
- (3) Department of Fisheries and Oceans, Library, Bedford Institute of Oceanography, Dartmouth, N.S.

#### INTRODUCTION:

This Open File is a product of the Atlantic Geoscience Centre's Publications Data Base, a computerized system for tracking and reporting on the publications of staff at AGC.

This Open File supplements a previous publication, also a product of the Publications Data Base:

Fricker, A., Samson, A. 1986. Bibliography of Publications by Staff of the Atlantic Geoscience Centre to December 1984. Canadian Data Report of Hydrography and Ocean Sciences No. 48. 326p.

The Publications Data Base is maintained cooperatively by the Atlantic Geoscience Centre, Biblio-Tech Ltd. under contract with AGC, and the Department of Fisheries and Oceans' Library at the Bedford Institute of Oceanography.

This Open File contains a computer-produced list of bibliographic references, verified by the librarians at the BIO Library or Biblio-Tech, and sorted by author, a computer-produced author index with most author's affiliations and a computer-produced index to Geological Survey of Canada projects relevant to the individual publications. The relevant projects index is incomplete because this information was not always available.

#### ACKNOWLEDGEMENTS

The compilers of this Open File would like to acknowledge the contribution made by the contributing authors, by the staff of AGC's Data Section and the BIO Library, and especially Aubrey Fricker whose skill and determination was largely responsible for the publication of the first computer-assisted bibliography of AGC publications referred to above and whose expertise designed and guided the implementation of the Publications Data Base itself.

1  
 AGTERBERG, F.P., GRADSTEIN, F.M., LEW, S.N., THOMAS, F.C. 1985. NINE DATA BASES WITH APPLICATIONS OF RANKING AND SCALING OF STRATIGRAPHIC EVENTS. IN: QUANTITATIVE STRATIGRAPHY, BY F.M. GRADSTEIN, F.P. AGTERBERG, J.C. BROWER [AND] W.S. SCHWARZACHER. DORDRECHT: D. REIDEL; PARIS: UNESCO. P.473-564.

2  
 AGTERBERG, F.P., OLIVER, J., LEW, S.N., GRADSTEIN, F.M., WILLIAMSON, M.A. 1985. CASC FORTRAN IV INTERACTIVE COMPUTER PROGRAM FOR CORRELATION AND SCALING IN TIME OF BIOSTRATIGRAPHIC EVENTS. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1179. 139P. & 2 DISKETTES.

3  
 AKSU, A.E., MUDIE, P.J. 1985. LATE QUATERNARY STRATIGRAPHY AND PALEOECOLOGY OF NORTHWEST LABRADOR SEA. MARINE MICROPALAEONTOLOGY 9(6): 537-557.

LITHOFACIES IN 20 CORES FROM NW LABRADOR SEA ARE DESCRIBED AND CORRELATED. OXYGEN ISOTOPES, CALCAREOUS AND SILICEOUS MICROFOSSILS, POLLEN AND DINOFLAGELLATES ARE USED TO CONSTRUCT A MODEL OF GLACIAL-INTERGLACIAL CHANGES IN OCEAN-ATMOSPHERE CIRCULATION DURING THE PAST 300,000 YEARS (SINCE ISOTOPIIC STAGE 9).

4  
 AKSU, A.E., MUDIE, P.J. 1985. MAGNETOSTRATIGRAPHY AND PALYNOLOGY DEMONSTRATE AT LEAST 4 MILLION YEARS OF ARCTIC OCEAN SEDIMENTATION. NATURE (LONDON) 318(6043): 280-283.

DETAILED PALEOMAGNETIC AND PALYNOLOGICAL STUDIES OF 3 CORES FROM THE ALPHA RIDGE, CENTRAL ARCTIC OCEAN SHOW RECORDS THAT CAN BE CORRELATED WITH STANDARD MAGNETOCHRONOLOGIES FOR THE BURHNEZ, MATURAGA GAUSS AND GILBERT MAGNETOCHRONOS AND ARE INDEPENDENTLY DATED BY THE FIRST AND LAST OCCURRENCES OF DINOCYSTS AND POLLEN WITH KNOWN STRATIGRAPHIC AGE RANGES. TAMS RADIOCARBON DATES CONFIRM SEDIMENTATION RATE OF CA. 1MM/1000 YRS FOR THE PAST 4.25 MA.

5  
 AMOS, C.L. 1985. BOTTOM PHOTOGRAPHY AND SEDIMENT ANALYSES ON CESAR. IN: INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN, ED., H.R. JACKSON, P.J. MUDIE, AND S.M. BLASCO. GEOLOGICAL SURVEY OF CANADA PAPER 84-22: 25-45.

6  
 AMOS, C.L., MOSHER, D.C. 1985. EROSION AND DEPOSITION OF FINE-GRAINED SEDIMENTS FROM THE BAY OF FUNDY. SEDIMENTOLOGY 32(6): 815-832.

THIS PAPER REVIEWS THREE STUDIES ON THE EROSION SETTLING RATE AND DEPOSITION OF FINE GRAINED SEDIMENT FROM THE MINAS BASIN. THE RESULTS SHOW THAT THE CONSTANTS AND COEFFICIENTS USED IN NUMERIC SIMULATION ARE CORRECT FOR THE DEPOSITIONAL PHASE, BUT WRONG FOR THE EROSIONAL PHASE. INTERTIDAL SEDIMENTS ARE UP TO 80 TIMES MORE RESISTANT TO EROSION THAN HITHERTO CONSIDERED.

7  
 AMOS, C.L., TOPLISS, B.J. 1985. DISCRIMINATION OF SUSPENDED PARTICULATE MATTER IN THE BAY OF FUNDY USING THE NIMBUS 7 COASTAL ZONE COLOR SCANNER. CANADIAN JOURNAL OF REMOTE SENSING 11(1): 85-92.

8  
 AMOS, C.L., ZAITLIN, B.A. 1985. THE EFFECT OF CHANGES IN TIDAL RANGE ON A SUBLITTORAL MACROTIDAL SEQUENCE, BAY OF FUNDY, CANADA. IN: ORIGINS, TRANSPORT, AND DEPOSITION OF FINE-GRAINED SEDIMENTS: SEPM RESEARCH CONFERENCE (1984 : LOS ANGELES, CA), PART I. GEO-MARINE LETTERS 4(3/4): 161-169.

INDEPENDENT EVIDENCE ON CHANGES IN SEA LEVEL AND TIDAL RANGE DURING THE LAST 9000 YEARS IS USED TO EVALUATE THE LITHOLOGIES IDENTIFIED FROM 17 CORES FROM THE SUB-LITTORAL PART OF CHIGNECTO BAY. THE COMPOSITE TIDAL SEQUENCE IS COMPLEX DUE TO CHANGES FROM MICROTIDAL, THROUGH MESOTIDAL TO MACROTIDAL CONDITIONS AND CHANGES IN WATER DEPTH. CHANGES IN TIDAL RANGE SHOULD THEREFORE BE CONSIDERED WHEN INTERPRETING "TIDALITE" SEQUENCE FROM THE GEOLOGIC RECORD.

9  
 ANDREWS, J.T., AKSU, A., KELLY, M., KLASSEN, R., MILLER, G.H., MODE, W.N., MUDIE, P. 1985. LAND/OCEAN CORRELATIONS DURING THE LAST INTERGLACIAL/GLACIAL TRANSITION, BAFFIN BAY, NORTHWESTERN NORTH ATLANTIC: A REVIEW. QUATERNARY SCIENCE REVIEWS 4(4): 333-355.

EVIDENCE FROM TERRESTRIAL SECTIONS, ICE CORES AND MARINE CORES ARE USED TO RECONSTRUCT ENVIRONMENTAL CHANGES DURING ISOTOPIIC STAGES 5 AND 4 IN THE BAFFIN BAY REGION. AMINO ACID RACEMIZATION DATES INDICATE THE GROWTH OF BAFFIN ISLAND AND GREENLAND ICE SHEETS BETWEEN LATE STAGE 5 AND 4. OXYGEN ISOTOPE RECORDS FROM DEVON ICE CAP AND BAFFIN BAY, POLLEN AND MARINE MICROFOSSIL RECORDS INDICATE INTERGLACIAL CONDITIONS DURING STAGE 5.

10

ASPREY, K.W., SYVITSKI, J.P.M. 1985. TRANSFER OF MAGNETITE FROM LAND TO SEA [SEA] IN BAFFIN ISLAND FJORDS [POSTER]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.213-216. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

DETERMINATION OF THE DISTRIBUTION OF MAGNETITE CAN BE A POWERFUL TECHNIQUE TO DISCERN SEDIMENT SOURCES AND TRANSPORT PATHWAYS IN A CLOSED DEPOSITIONAL SYSTEM. ANALYTICAL RESULTS FROM SEDIMENT SAMPLES COLLECTED IN BAFFIN ISLAND ARE USED AS AN EXAMPLE OF THIS TECHNIQUE.

11

ASUDEH, I., FORSYTH, D.A., JACKSON, H.R., STEPHENSON, R. 1985. ICE ISLAND 1985 REFRACTION SURVEY: A PRELIMINARY REPORT [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 956.

12

ASUDEH, I., FORSYTH, D.A., JACKSON, H.R., STEPHENSON, R., WHITE, D. 1985. THE 1985 ICE ISLAND REFRACTION SURVEY: PHASE 1 REPORT. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1196. 142P. ALSO RELEASED AS CANADA. EARTH PHYSICS BRANCH OPEN FILE 85-23.

13

ATLANTIC GEOSCIENCE CENTRE 1985. PRELIMINARY 1:2M SURFICIAL FEATURES MAP OF OFFSHORE EASTERN CANADA. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1076. 33P. PLUS MAPS, ETC.

THIS OPEN FILE CONSISTS OF AN UNEDITED MAP COMPILATION PREPARED FOR THE GEOLOGY OF CANADA SERIES, EAST COAST OFFSHORE VOLUME. IT IS EXPECTED THAT THESE MAPS WILL BE PUBLISHED IN FINAL FORM IN 1987.

14

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) OF THE DISPERSED ORGANICS AND COALY MATTER FROM THE MOBIL ET AL. HIBERNIA B-08 (REVISED REPORT). GEOLOGICAL SURVEY OF CANADA OPEN FILE 1201. 1V. (REPORT EPGs-DOM.13.85 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR MOBIL ET AL. HIBERNIA B-08: %RO DEPTH IN METERS CONFIDENCE 0.5 3307 DETERMINED 0.6 4308 DETERMINED 0.8 5885 PROJECTED 1.0 7110 PROJECTED.

15

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) OF THE DISPERSED ORGANICS FROM THE ESSO VOYAGEUR GABRIEL C-60. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1206. 1V. (REPORT EPGs-DOM.12-85 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR ESSO VOYAGEUR C-60: %RO DEPTH IN METERS CONFIDENCE 0.5 3942 DETERMINED 0.6 4441 DETERMINED 0.8 5228 PROJECTED 1.0 5838 PROJECTED.

16

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE AMOCO IMPERIAL PUFFIN B-90. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1165. 1V. (REPORT EPGs-DOM.3-85 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR AMOCO-IMPERIAL PUFFIN B-90: %RO DEPTH IN FEET 0.5 8961 DETERMINED 0.6 10940 DETERMINED 1.0 16485 PROJECTED.

17

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE AMOCO IMPERIAL SKELLY TERN A-68. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1167. 1V. (REPORT EPGs-DOM.1-85 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR AMOCO IMPERIAL SKELLY TERN A-68: %RO DEPTH IN FEET 0.5 8989 DETERMINED 0.6 11015 DETERMINED 1.0 16691 PROJECTED.

18

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE AMOCO-IOE A-1 MURRE G-67. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1168. 1V. (REPORT EPGs-DOM.30-84 PHH)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR AMOCO-IOE A-1 MURRE G-67: %RO DEPTH IN FEET 0.5 4900 DETERMINED 0.6 6500 DETERMINED 1.0 10850 DETERMINED.

19

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE MOBIL ET AL. WEST FLYING FOAM L-23. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1169. 1V. (REPORT EPGs-DOM.27-84 PHH)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR MOBIL ET AL. WEST FLYING FOAM L-23: %RO DEPTH IN FEET 0.5 2050 DETERMINED 0.6 2570 DETERMINED (WITHIN UNCONFORMITY) 1.0 3090 DETERMINED.

20

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE MOBIL GULF ADOLPHUS D-50. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1199. 1V. (REPORT EPGs-DOM.9-85 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR MOBIL GULF ADOLPHUS D-50: %RO DEPTH IN FEET CONFIDENCE 0.5 6303 DETERMINED 0.6 7541 DETERMINED 0.8 9494 DETERMINED 1.0 11009 DETERMINED.

21

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE MOBIL GULF ADOLPHUS 2K-41. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1166. 1V. (REPORT EPGs-DOM.32-84 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR MOBIL GULF ADOLPHUS SK-41: %DEPTH IN FEET 0.5 6432 DETERMINED 0.6 8573 DETERMINED 1.0 14521 PROJECTED.

22

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE MOBIL GULF DOMINION 0-23. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1200. 1V. (REPORT EPGs-DOM.10.85 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR MOBIL GULF DOMINION 0-23: %RO DEPTH IN FEET CONFIDENCE 0.5 8099 DETERMINED 0.6 9768 DETERMINED 0.8 12401 PROJECTED 1.0 14444 PROJECTED.

23

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE MOBIL TETCO PETRO-CANADA MIGRANT N-20. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1172. 1V. (REPORT EPGs-DOM.2-85 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR MOBIL TETCO PETRO-CANADA MIGRANT N-20: %RO DEPTH IN FEET 0.5 7824 DETERMINED 0.6 9866 DETERMINED 1.0 15587 PROJECTED.

24

AVERY, M.P. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE MOBIL-TEXACO-PEX OLYMPIA A-12. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1171. 1V. (REPORT EPGs-DOM.17-85 MPA)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR MOBIL-TEXACO-PEX OLYMPIA A-12: %RO DEPTH IN FEET 0.5 2500 DETERMINED 0.6 3116 DETERMINED 1.0 4724 DETERMINED.

25

AVERY, M.P., BELL, J.S. 1985. ORGANIC MATURITY ON THE NORTHERN GRAND BANKS [ABSTRACT]. IN: TECTONIC MODELS FOR THE EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY 1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY 21(1/3): 31.

A PALEOTHERMAL HIGH FOLLOWS THE AXIS OF THE JEANNE D'ARC BASIN AND SPATIALLY COINCIDES WITH ARGO SALT DISTRIBUTION. DEPTH TO MARGINAL MATURITY FOR OIL GENERATION VARIES FROM 2000 TO 4000M.

26

AVERY, M.P., BELL, J.S. 1985. VITRINITE REFLECTANCE MEASUREMENTS FROM THE SOUTH WHALE BASIN, GRAND BANKS, EASTERN CANADA, AND IMPLICATIONS FOR HYDROCARBON EXPLORATION. GEOLOGICAL SURVEY OF CANADA PAPER 85-1B: 51-57.

ORGANIC MATURATION LEVELS SUITABLE FOR PEAK OIL GENERATION OCCUR AT 3350M DEPTH IN THE TERN A-68 AND PUFFIN B-90 WELLS. A REWORKED VITRINITE POPULATION IS PRESENT IN BOTH WELLS. IF SOURCED FROM A NEARBY SUBCROPPING BASIN, THIS SUGGESTS A POSSIBLE PALEOZOIC SOURCE OF GAS.

27

BALTUCK, M., KASAHARA, J., BOILLOT, G., WINTERER, E.L., MEYER, A.W., APPLGATE, J., BERGEN, J.A., COMAS, M.C., DAVIES, T.A., DUNHAM, K., EVANS, C.E., GIRARDEAU, J.G., HAGGERTY, J., JANSÁ, L.F., JOHNSON, J.A., LOREAU, J.P., MOULLADE, M., OGG, J.G., SARTI, M., THUROW, J., WILLIAMSON, M.W. 1985. COMPACTION TO CEMENTATION CONSOLIDATION IN ODP LEG 103 SEDIMENTS [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 1095.

28

BARSS, M.S., DAVIES, E.H., FRICKER, A., WILLIAMS, G.L. 1985. PALYNOLOGY DATA MANAGEMENT AT THE ATLANTIC GEOSCIENCE CENTRE [ABSTRACT]. IN: ABSTRACTS OF THE PROCEEDINGS OF THE ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS (17TH : 1984 : ARLINGTON, VA). PALYNOLOGY 9: 235-236.

DEVELOPMENT OF TWO DATABASES FOR HANDLING PALYNOLOGICAL INFORMATION. SOME OF THE APPLICATIONS AND PRODUCTS ARE DISCUSSED.

29

BAYS, A.B., POLEY, D.F., BLASCO, S.M. 1985. DMAPS: A NEW EXPERIMENTAL DIGITAL MARINE REFLECTION SEISMIC ACQUISITION AND PROCESSING SYSTEM. GEOLOGICAL SURVEY OF CANADA PAPER 85-1A: 523-526.

A MICROCOMPUTER BASED DIGITAL SEISMIC REFLECTION DATA ACQUISITION AND PROCESSING SYSTEM (DMAPS) HAS BEEN DESIGNED FOR USE IN HIGH-RESOLUTION SHALLOW MARINE SEISMIC SURVEYS IN THE BEAUFORT SEA. DMAPS IS BASED ON AN IBM-PC MICROCOMPUTER AND IS CONSTRUCTED LARGELY USING COMMERCIALY AVAILABLE COMPONENTS. THE SYSTEM IS CAPABLE OF SAMPLING RATES OF UP TO 14KHZ FOR EACH OF TWO CHANNELS. DATA WILL BE DIGITALLY FILTERED, DECONVOLED AND SUMMED DURING ACQUISITION AND WILL BE TAPED.

30

BLASCO, S.M., HARPER, J.R., FORBES, D.L. 1985. SEDIMENT DISTRIBUTION AND DYNAMICS IN THE SOUTHERN BEAUFORT SEA. IN: PROCEEDINGS, WORKSHOP ON ARCTIC REGIONAL COASTAL EROSION AND SEDIMENTATION = COMPTES RENDUS, L'ATELIER SUR L'EROSION ET LA SEDIMENTATION LITTORALES DANS L'ARCTIQUE (1983 : CALGARY, ALBERTA). [OTTAWA]: NATIONAL RESEARCH COUNCIL CANADA, ASSOCIATE COMMITTEE FOR RESEARCH ON SHORELINE EROSION AND SEDIMENTATION. P.1-2.

WE SUMMARIZE THE DISTRIBUTION OF SURFICIAL MATERIALS ON THE SHELF AND COAST OF THE SOUTHERN BEAUFORT SEA, USING RESULTS OF COASTAL MAPPING AND A SYNTHESIS OF HIGH-RESOLUTION SEISMIC REFLECTION AND BOREHOLE DATA. WE ALSO PRESENT A PRELIMINARY SEDIMENT BUDGET AND A REVIEW OF THE MAJOR SEDIMENT TRANSPORT PROCESSES.

31

BOYD, R., BOWEN, A.J., HONIG, C. 1985. TRANSGRESSIVE SEDIMENTATION, EASTERN SHORE, NOVA SCOTIA: [FIELD TRIP C] - ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : [BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.]). [DARTMOUTH, N.S.: THE WORKSHOP]. 39P. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1324)

THE GUIDE INCLUDES A BACKGROUND PAPER "AN EVOLUTIONARY MODEL FOR TRANSGRESSIVE SEDIMENTATION ON THE EASTERN SHORE OF NOVA SCOTIA" BY R. BOYD, A.J. BOWEN AND R.K. HALL, 39PP. FOUR FIELD STOPS ARE DESCRIBED IN AND AROUND LAWRENCETOWN BEACH BY R. BOYD AND D. FITZGERALD.

32

BROOKE OCEAN TECHNOLOGY LTD. 1985. WIRE PROTECTION PROGRAM. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1202. 32P. & 12 PHOTOS.

THE REPORT RESULTS FROM A CONTRACT TO BROOKE OCEAN TECHNOLOGY LTD. BY AGC IN 1984-85 WITH REPORTS ON INVESTIGATIONS CARRIED OUT AND METHODS RECOMMENDED TO HANDLE, CLEAN AND LUBRICATE VARIOUS OCEANOGRAPHIC CABLES. IT ALSO INVESTIGATES AND TESTS A NUMBER OF AVAILABLE CABLE LUBRICANTS WITH RESULTS REPORTED ON THESE TESTS.

33

BUCKLEY, D.E., FITZGERALD, R.A. 1985. GEOCHEMICAL INDICATORS OF DEPOSITIONAL ENVIRONMENT IN BAFFIN ISLAND FIORDS. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.59. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

INTERPRETATION OF GEOCHEMICAL DATA FROM SEDIMENT CORES LEADS TO THE CONCLUSION THAT THESE FIORD SEDIMENTS ARE GEOCHEMICALLY IMMATURE AND ARE PREDOMINANTLY INFLUENCED BY TEXTURAL PROPERTIES AND LOCAL PROVENANCE.

34

BUCKLEY, D.E., GRANT, A.C. 1985. FAULTLIKE FEATURES IN ABYSSAL PLAIN SEDIMENTS: POSSIBLE DEWATERING STRUCTURES. JOURNAL OF GEOPHYSICAL RESEARCH 90(C5): 9173-9180.

ACOUSTIC DISCONTINUITIES IDENTIFIED IN SEISMIC PROFILING RECORDS ARE INTERPRETED AS FAULTS THAT HAVE PENETRATED QUATERNARY UNCONSOLIDATED SEDIMENTS. THESE FEATURES ARE FURTHER INTERPRETED TO REPRESENT PLANES OF EGRESS FOR WATER EXPELLED FROM SEDIMENTS ON COMPACTION.

35  
 CHEADLE, S.P., BERTRAM, M.B., LAWTON, D.C. 1985. DEVELOPMENT OF A PHYSICAL SEISMIC MODELING SYSTEM, UNIVERSITY OF CALGARY. GEOLOGICAL SURVEY OF CANADA PAPER 85-1A: 499-504.

A PHYSICAL SEISMIC SCALE MODELLING FACILITY INCLUDING A LARGE WATER-FILLED TANK, HOVERABLE TRANSDUCER ARRAYS AND HIGH SPEED DATA RECORDER HAS BEEN ESTABLISHED AT THE UNIVERSITY OF CALGARY. SCALED GEOLOGIC MODELS SIMULATING PERMAFROST SEA STRATIGRAPHY ARE SUBMERGED IN THE TANK AND PREFILED TO PRODUCE SYNTHETIC SECTIONS AND TO TEST DEVELOPMENTS IN THE ACQUISITION AND PROCESSING OF HIGH RESOLUTION SEISMIC REFLECTION DATA.

36  
 CHOUGH, S.K., MOSHER, D.C., SRIVASTAVA, S.P. 1985. OCEAN DRILLING PROGRAM (ODP) SITE SURVEY (HUDSON 84-030) IN THE LABRADOR SEA: 3.5 KHZ PROFILES. GEOLOGICAL SURVEY OF CANADA PAPER 85-1B: 33-41.

THE ECHO CHARACTERISTICS OF THE SEABOTTOM AT THE THREE DRILL SITES IN THE LABRADOR SEA ARE DESCRIBED.

37  
 CLARK, P., JOSEPHANS, H. 1985. LATE QUATERNARY LAND-SEA CORRELATIONS, NORTHERN LABRADOR, CANADA [ABSTRACT]. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS 17(7): 548.

38  
 CLARK, P., JOSEPHANS, H., MCCOY, W.D. 1985. CORRELATION OF LATE QUATERNARY EVENTS: TORNGAT MOUNTAINS AND LABRADOR SHELF [ABSTRACT]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.131-132. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

39  
 DABORN, G.R., VAN WAGONER, N., AMOS, C.L. 1985. BIOTIC INFLUENCES ON INTERTIDAL SEDIMENT STABILITY IN THE UPPER BAY OF FUNDY [ABSTRACT]. IN: ABSTRACTS FOR THE BIENNIAL INTERNATIONAL ESTUARINE RESEARCH CONFERENCE (8TH : 1985 : DURHAM, NH). ESTUARIES 8(2B): 61A.

40  
 DAVIES, E.H. 1985. DINOFLAGELLATE CYST OCCURRENCES OF THE JURASSIC-LOWER CRETACEOUS SEQUENCE IN THE SVERDRUP BASIN; ARCTIC CANADA. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1153. 28P. & 2 SHEETS.

THIS OPEN FILE REPORT PRESENTS THE DINOFLAGELLATE CYST OCCURRENCES THAT FORM THE BASIS FOR THE DINOFLAGELLATE OPEL-ZONATION, PROPOSED BY DAVIES (1983) IN THE GEOLOGICAL SURVEY BULLETIN 359, FOR THE SVERDRUP BASIN LOCATED IN THE QUEEN ELIZABETH ISLANDS, DISTRICT OF FRANKLIN, ARCTIC CANADA.

41  
 DRAPEAU, G., HODGINS, D.O., LONG, B.F., AMOS, C.L. 1985. RADIO-ISOTOPE TRACER MEASUREMENTS OF SAND TRANSPORT ON THE OUTER CONTINENTAL SHELF, SABLE ISLAND CANADA. IN: OCEAN ENGINEERING AND THE ENVIRONMENT; OCEANS 85 (1985 : SAN DIEGO, CA); CONFERENCE RECORD. NEW YORK: IEEE; WASHINGTON, DC: MARINE TECHNOLOGY SOCIETY. V.1: 581-586.

42  
 EARTH AND OCEAN RESEARCH LTD. 1985. INDEX OF COMMERCIALY ACQUIRED POTENTIAL FIELD DATA IN THE CANADIAN EAST COAST OFFSHORE. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1158. 2V.

A CATALOG DESCRIBING INDUSTRY OPERATIONS PRIOR TO 1980 WHERE GRAVITY AND MAGNETIC DATA HAVE BEEN COLLECTED OFF THE EAST COAST OF CANADA.

43  
 ERVINE, W.B. 1985. A SYNTHESIS OF HYDROCARBON MATURATION DATA FOR THE EAST NEWFOUNDLAND BASIN. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1178. 105P.

TIME-TEMPERATURE INDEX (TTI) VALUES HAVE BEEN CALCULATED FOR 23 WELLS AND CALIBRATED WITH VITRINITE REFLECTANCE DATA. TTI'S WERE COMPARED ALSO WITH OTHER MATURATION AND GEOCHEMICAL DATA. THIS INFORMATION WAS CORRELATED WITH HYDROCARBON OCCURRENCE, TYPE AND QUALITY OF KEROGEN AND BASIN STRUCTURE TO CREATE A HYDROCARBON GENERATION MODEL.

44

ESOPE SCIENTIFIC PARTY, SHEPHARD, L.E., [BUCKLEY, D.E.], [CRANSTON, R.E.] 1985. ETUDE DES SEDIMENTS OCEANIQUE PAR PENETRATION (ESOPE): AN INTERNATIONAL STUDY OF ABYSSAL PLAINS USING LONG-CORES [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 943.

LONG CONTINUOUS PISTON CORES UP TO 34.3M WERE OBTAINED FROM THE MADEIRA PLAIN IN THE EASTERN NORTH ATLANTIC, AND CORES UP TO 26.2 M WERE OBTAINED FROM THE SOUTHERN NARES ABYSSAL PLAIN. THESE CORE SAMPLES INTERSECTED TURBIDITES IN BOTH ABYSSAL PLAINS, WITH MAP TURBIDITES BEING CONTINUOUS OVER DISTANCES OF 100 KM OR MORE. SHEAR STRENGTH GRADIENTS VARIED FROM 1.5 K PA/M IN MAP TO 1 K PA/M IN SNAP.

45

EVANS, C., BOILLOT, G., WINTERER, E., MEYER, A., APPLGATE, J., BALTUCK, M., BERGEN, J., COMAS, M., DAVIES, T., DUNHAM, K., GIRARDEAU, J., GOLDBERG, D., HAGGERTY, J., JANSAL, L., JOHNSON, J., KASAHARA, J., LOREAU, J.P., LUNA, E., MOULLADE, M., OGG, J., SARTI, M., THUROW, J., WILLIAMSON, M. 1985. PERIDOTITES FROM THE GALICIA MARGIN, OCEAN DRILLING PROGRAM LEG 103 [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 1130.

PERIDOTITES ENCOUNTERED AT SITE 637 ARE SERPENTINIZED, FOLIATED CLINOPYROXENIC HARZBURGITES. THE EMPLACEMENT AND RELATIONSHIP TO THE MARGIN EVOLUTION REMAIN UNCLEAR.

46

FADER, G.B.J. 1985. CRUISE REPORT NO. 85-057, MV PANDORA II, PISCES IV, JUNE 30 - JULY 13, 1985. BIO CRUISE REPORT 85-057. 18P.

TWO DIVES WERE COMPLETED (1) SUPERFURROW AREA OF AVALON CHANNEL AND (2) SAND RIDGE FIELD OF CENTRAL GRAND BANK. ADDITIONAL SIDESCAN SONAR INFORMATION WAS COLLECTED AT HIBERNIA.

47

FADER, G.B.J. 1985. CRUISE REPORT 85-005, C. S. S. HUDSON, MARCH 31-APRIL 24, 1985: GRAND BANKS OF NEWFOUNDLAND. BIO CRUISE REPORT 85-005. 34P.

INCLUDES METHODS AND AREA OF OPERATION FOR CRUISE NUMBER 85-005 (C.S.S. HUDSON) WITH A BRIEF DESCRIPTION OF THE OCEANS SHORT BASELINE SYSTEM TRIALS BY D.L. MCKEOWN. THE APPENDIX INCLUDES A SUMMARY OF ON-LINE DATA COLLECTED AS WELL AS THE STATION WORK ACCOMPLISHED. A LOCATION MAP IS INCLUDED.

48

FADER, G.B.J. 1985. EVIDENCE FOR A LATE WISCONSINAN LOW SEA LEVEL STAND OF 100-120M FROM THE SCOTIAN SHELF TO THE GRAND BANKS OF NEWFOUNDLAND [ABSTRACT]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.137-138. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

SEDIMENT DISTRIBUTION, TEXTURE, MORPHOLOGY, STRATIGRAPHY, ICEBERG FURROWS AND GEOTECHNICAL PROPERTIES OF SURFICIAL SEDIMENTS ON THE SOUTHEAST CANADIAN CONTINENTAL SHELF INDICATE A 15000 Y. B.D. LOWER SEA LEVEL OF 100-120 M DEPTH.

49

FORBES, D.L. 1985. PLACENTIA ROAD AND ST. MARY'S BAY: FIELD-TRIP GUIDE TO COASTAL SITES IN THE SOUTHERN AVALON PENINSULA, NEWFOUNDLAND. IN: PROCEEDINGS, CANADIAN COASTAL CONFERENCE (1985 : ST JOHN', NFLD.) = COMPTES RENDUS, CONFERENCE CANADIENNE SUR LE LITTORAL (1985 : ST JOHN'S, T.-N.), ED., D.L. FORBES. OTTAWA: NATIONAL RESEARCH COUNCIL CANADA, ASSOCIATE COMMITTEE FOR RESEARCH ON SHORELINE EROSION AND SEDIMENTATION. P.587-605.

DESCRIBES POINTS OF SCIENTIFIC ENGINEERING AND CULTURAL INTEREST AT 12 SITES. INCLUDES ORIGINAL DATA ON GRAVEL ON BEACH SEDIMENTATION AND MORPHOLOGY INCLUDING EXCEPTIONAL LARGE UPPER-BEACHFACE CUSP AND TERRACE FEATURES AT HOLYROOD BAY AND PROGRADED GRAVEL BEACH DEPOSITS AT PLACENTIA.

50

FORBES, D.L. (ED.) 1985. PROCEEDINGS, CANADIAN COASTAL CONFERENCE 1985 (1985 : ST JOHN'S, NFLD.) = COMPTES RENDUS, CONFERENCE CANADIENNE SUR LE LITTORAL 1985 (1985 : ST JOHN'S, T.-N.). OTTAWA: NATIONAL RESEARCH COUNCIL CANADA, ASSOCIATE COMMITTEE FOR RESEARCH ON SHORELINE EROSION AND SEDIMENTATION. 605P.

51

FORBES, D. 1985. "COASTAL SEDIMENTATION," ED., D.J.P. SWIFT AND H.D. PALMER [BOOK REVIEW]. JOURNAL OF COASTAL RESEARCH 1(4): 416-417.



52  
FORBES, D.L., FROBEL, D. 1985. COASTAL EROSION AND SEDIMENTATION IN THE CANADIAN BEAUFORT SEA. GEOLOGICAL SURVEY OF CANADA PAPER 85-1B: 69-80.

COASTAL SURVEYS IN 1984 INCLUDED EXTENSIVE OBLIQUE AERIAL VIDEO COVERAGE, 22 BEACH PROFILES AT 8 SITES, SEDIMENT SAMPLING AND 98 MEASUREMENTS OF CLIFF RECESSION AT 11 SITES. BEACHES RANGE FROM HIGH GRAVELS AND BARRIERS UP TO 4.2 M HIGH TO BROAD LOW SANDY SPITS AND BARRIER ISLANDS AS LOW AS 0.4 M. STORM SURGE DRIFTWOOD OCCURS UP TO 3.7 M. MEASURED FIVE-YEAR MEAN RATES OF CLIFF RECESSION RANGE AS HIGH AS 13.2 M/A ON PELLY ISLAND NORTH OF MACKENZIE DELTA.

53  
FORSYTH, D.A., ASUDEH, I., GREEN, A., JACKSON, H.R. 1985. CRUSTAL STRUCTURE OF THE ALPHA CORDILLERA [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 956.

54  
GASKILL, H., NICKS, L., ROSS, D. 1985. A NON-DETERMINISTIC MODEL OF POPULATIONS OF ICEBERG SCOUR DEPTHS. COLD REGIONS SCIENCE AND TECHNOLOGY 11(2): 107-122.

55  
GILBERT, G.R., BLASCO, S., STIRBYS, A.F., LEWIS, C.F.M. 1985. BEAUFORT SEA ICE SCOUR ANALYSIS USING A COMPUTERIZED DATA BASE. IN: ANNUAL OFFSHORE TECHNOLOGY CONFERENCE (17TH : 1985 : [HOUSTON, TX]), PROCEEDINGS. RICHARDSON, TX: THE CONFERENCE. V.3: 111-118.

WITH THE AID OF A MICROCOMPUTER, 5000 KM OF SIDESCAN, SUBBOTTOM AND BATHYMETRIC DATA HAVE BEEN DIGITIZED AND INCORPORATED INTO A REGIONAL ICE SCOUR DATA BASE MANAGEMENT AND ANALYSIS SYSTEM FOR THE BEAUFORT SEA. THE DISTRIBUTION OF SCOUR PARAMETERS, THEIR INTER-RELATIONSHIPS AND CORRELATIONS WITH PHYSICAL CONDITIONS CAN BE GRAPHICALLY ILLUSTRATED AND ANALYZED OVER A WIDE RANGE OF PARAMETERS AND CONDITIONS.

56  
GILBERT, R., SYVITSKI, J.P.M., TAYLOR, R.B. 1985. RECONNAISSANCE STUDY OF PROGLACIAL STEWART LAKES, BAFFIN ISLAND, DISTRICT OF FRANKLIN. GEOLOGICAL SURVEY OF CANADA PAPER 85-1A: 505-510.

STEWART LAKES ARE DAMMED BY NEOGLACIAL MORAINES IN A THROUGH-VALLEY BETWEEN GIBBS & SAM FORD FIORD. GLACIERS ARE RETREATING AT RATES BETWEEN 19 AND 34 M/A. THE LAKE LEVEL HAS LOWERED BY 14M AS A RESULT OF ICE RETREAT AND DOWNCUTTING OF THE MORAINES. THE LAKE VALUES OF SUSPENDED SEDIMENT CONCENTRATION ARE SIGNIFICANTLY HIGHER THAN THOSE MEASURED IN MOST OTHER ICE PROXIMAL LAKES & FIORDS.

57  
GRADSTEIN, F.M. 1985. RANKING AND SCALING IN EXPLORATION MICROPALAEONTOLOGY. IN: QUANTITATIVE STRATIGRAPHY, BY F.M. GRADSTEIN, F.P. AGTERBERG, J.C. BROWER [AND] W.S. SCHWARZACHER. DORDRECHT: D. REIDEL; PARIS: UNESCO. P.109-160.

58  
GRADSTEIN, F.M. 1985. STRATIGRAPHY AND THE FOSSIL RECORD. IN: QUANTITATIVE STRATIGRAPHY, BY F.M. GRADSTEIN, F.P. AGTERBERG, J.C. BROWER [AND] W.S. SCHWARZACHER. DORDRECHT: D. REIDEL; PARIS: UNESCO. P.17-39.

59  
GRADSTEIN, F.M. 1985. TIMESCALES AND BURIAL HISTORY. IN: QUANTITATIVE STRATIGRAPHY, BY F.M. GRADSTEIN, F.P. AGTERBERG, J.C. BROWER [AND] W.S. SCHWARZACHER. DORDRECHT: D. REIDEL; PARIS: UNESCO. P.421-469.

60  
GRADSTEIN, F.M. 1985. UNITARY ASSOCIATIONS AND RANKING OF JURASSIC RADIOLARIANS. IN: QUANTITATIVE STRATIGRAPHY, BY F.M. GRADSTEIN, F.P. AGTERBERG, J.C. BROWER [AND] W.S. SCHWARZACHER. DORDRECHT: D. REIDEL; PARIS: UNESCO. P.263-278.

61  
GRADSTEIN, F.M., AGTERBERG, F.P. 1985. QUANTITATIVE CORRELATION IN EXPLORATION MICROPALAEONTOLOGY. IN: QUANTITATIVE STRATIGRAPHY, BY F.M. GRADSTEIN, F.P. AGTERBERG, J.C. BROWER [AND] W.S. SCHWARZACHER. DORDRECHT: D. REIDEL; PARIS: UNESCO. P.309-357.

62  
GRADSTEIN, F.M., AGTERBERG, F.P., BROWER, J.C., SCHWARZACHER, W.S. 1985. QUANTITATIVE STRATIGRAPHY. DORDRECHT: D. REIDEL; PARIS: UNESCO. 598P.

CONCEPTS AND METHODS OF QUANTITATIVE STRATIGRAPHY AND ITS APPLICATIONS IN SEDIMENTARY BASINS.

63

GRANT, A.C. 1985. STRUCTURAL EVOLUTION OF THE HEAD OF SOLANDER TROUGH, SOUTH OF NEW ZEALAND, BASED ON ANALYSIS OF SEISMIC BASEMENT. NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS 28(1): 5-22.

64

GRANT, A.C., MCALPINE, K.D., WADE, J.A. 1985. THE CONTINENTAL MARGIN OF EASTERN CANADA - GEOLOGICAL FRAMEWORK AND PETROLEUM POTENTIAL [ABSTRACT]. IN: TECTONIC MODELS FOR THE EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY 1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY 21(1/3): 34.

65

GRANT, D.R. 1985. GLACIERS, SEDIMENT AND SEA LEVEL; NORTHERN BAY OF FUNDY, NOVA SCOTIA: [FIELD TRIP B] - ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : [BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.]). [DARTMOUTH, N.S.: THE WORKSHOP]. 43P. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1323)

THE GUIDE INCLUDES 31 STOP DESCRIPTIONS (TWO DAY TRIP) OF VARIOUS GEOLOGICAL ASPECTS RELATED TO PRIMARILY THE LAST DEGLACIATION BETWEEN TRURO AND FORT BEAUSEJOUR ALONG THE UPPER BAY OF FUNDY. AN APPENDIX "SEDIMENTATION IN THE MACROTIDAL COBEQUID BAY SALMON RIVER ESTUARY" BY R.W. DALRYMPLE AND B.A. ZAITLIN, 6PP., IS INCLUDED.

66

HACQUEBARD, P.A. 1985. PALEOENVIRONMENTAL AND TECTONIC CONTROL ON COAL DEPOSITION IN EASTERN CANADA. IN: TECTONIC MODELS FOR THE EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY 1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY 21(1/3): 45.

TECTONIC SETTING (OROGENIC OR EPEIROGENIC) AND PALEOENVIRONMENT (ALLUVIAL-PARALIC; FLUVIAL, SHALLOW OR DEEP LACUSTRINE) ARE REFLECTED IN OVERALL SEAM COMPOSITION AND IN THE PETROGRAPHY OF THE COAL ITSELF.

67

HACQUEBARD, P.A., AVERY, M.P. 1985. GEOLOGICAL AND GEOTHERMAL EFFECTS ON COAL RANK VARIATIONS IN THE CARBONIFEROUS BASIN OF NEW BRUNSWICK, CANADA. IN: CONGRES INTERNATIONAL DE STRATIGRAPHIE ET DE GEOLOGIE DU CARBONIFERE (10E : 1983 : MADRID); COMPTE RENDU. MADRID: INSTITUTO GEOLOGICO Y MINERO DE ESPANA. V.3: 383-397.

68

HARDY, I.A., FISHER, L.E. 1985. MARINE SAMPLES: DATA BASE MANAGEMENT AND SUPPORTIVE GRAPHICS AT THE ATLANTIC GEOSCIENCE CENTRE [POSTER]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.193. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

AGC AT BIO HAS CONDUCTED MORE THAN 175 MARINE SEDIMENT SAMPLING CRUISES ONBOARD CANADIAN SCIENTIFIC SURVEY VESSELS OVER THE PAST 20 YEARS. ALL AGC SAMPLE HOLDINGS ARE PRESENTLY STORED IN A SAMPLE INFORMATION DATA BASE. PLOTS IN SEVERAL DIFFERENT PROJECTIONS ARE AVAILABLE UPON REQUEST. THE 1984 AND 1985 CRUISE STATION INFORMATION IS ALSO NOW AVAILABLE THROUGH THE MARINE CORE CURATORS DATA BASE, AN INTERACTIVE INFORMATION DATA BASE OPERATED BY THE NATIONAL GEOPHYSICAL DATA CENTRE.

69

HARDY, I.A., LANGDON, D.R., FRICKER, A., HOLT, D.R. 1985. SID WAS CONCEIVED DURING THE APPALACHIAN OROGENY [ABSTRACT]. IN: TECTONIC MODELS FOR THE EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY 1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY 21(1/3): 44.

MORE THAN 30,000 MARINE GEOLOGICAL SOFT-SEDIMENT SAMPLES THAT WERE ONCE SAVED IN THE APPALACHIANS ARE PRESENTLY CURATED AT THE ATLANTIC GEOSCIENCE CENTRE. INFORMATION REGARDING THESE SAMPLES IS STORED IN A SAMPLE INVENTORY DATABASE CALLED SID.

70

HARRISON, P.H. 1985. VITRINITE REFLECTANCE (RO) ON THE DISPERSED ORGANICS IN THE AMOCO IMP SKELLY EGRET N-46. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1170. 1V. (REPORT EPGs-DOM.31-84 PHH)

THE FOLLOWING MATURATION LEVELS WERE DETERMINED FOR AMOCO IMP SKELLY EGRET N-46: %RO DEPTH IN FEET 0.5 4600 DETERMINED 0.6 5750 DETERMINED 1.0 9000 DETERMINED.

- 71  
HAWORTH, R.T., WILLIAMS, H., KEEN, C.E. 1985. NORTH AMERICAN CONTINENT-OCEAN TRANSECTS PROGRAM, TRANSECT D1: NORTH APPALACHIAN MOUNTAINS ACROSS NEWFOUNDLAND TO SOUTH LABRADOR SEA. BOULDER, CO: GEOLOGICAL SOCIETY OF AMERICA. 9P. & 2 CHARTS. (CONTINENT-OCEAN TRANSECT D1) (CENTENNIAL CONTINENT/OCEAN TRANSECT 1) ISSUED IN ENVELOPE WITH PUBLICATIONS 94 AND 95 AS SINGLE PUBLICATION.
- 72  
HELLER, M., GRADSTEIN, W.S., GRADSTEIN, F.M., AGTERBERG, F.P., LEW, S.N. 1985. RASC FORTRAN 77 COMPUTER PROGRAM FOR RANKING AND SCALING OF BIOSTRATIGRAPHIC EVENTS. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1203. 62P. & 2 DISKETTES.
- 73  
HILL, P.R. 1985. LATE QUATERNARY [QUATERNARY] DEPOSITIONAL ENVIRONMENTS OF THE CANADIAN BEAUFORT SHELF [ABSTRACT]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.233-234. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)
- SEISMIC AND BOREHOLE EVIDENCE IS USED TO INTERPRET LATE QUATERNARY DEPOSITIONAL ENVIRONMENTS. MARINE, DELTAIC AND GLACIAL OUTWASH PLAIN ENVIRONMENTS ARE RECOGNISED AND RELATED TO A RELATIVE SEA LEVEL HISTORY.
- 74  
HILL, P.R., MUDIE, P.J., MORAN, K., BLASCO, S.M. 1985. A SEA-LEVEL CURVE FOR THE CANADIAN BEAUFORT SHELF. CANADIAN JOURNAL OF EARTH SCIENCES 22(10): 1383-1393.
- A WELL-CONSTRAINED SEA LEVEL CURVE FOR THE BEAUFORT SHELF SHOWS 150 METRES OF SEA LEVEL RISE SINCE 27,000 YEARS B.P. BASIN SUBSIDENCE, SEDIMENT LOADING AND CONSOLIDATION ACCOUNT FOR 35 METRES OF THIS, WHILE GLACIAL LOADING IS THOUGHT TO ACCOUNT FOR THE REMAINING 105 METRES AND INDICATES EXTENSIVE MID-WISCONSINAN GLACIATION.
- 75  
HOSKIN, K.S., SYVITSKI, J.P.M., ASPREY, K.W., CONNOLLY, P. 1985. EXPEDITION REPORT NO. 84-025, LOUIS M. LAUZIER, CENTRE CHAMPLAIN DES SCIENCES DE LA MER, OCTOBER 19-20, 1984. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1140. 10P.
- DESCRIPTION OF CRUISE THAT CARRIED OUT HIGH-RESOLUTION SEISMIC SURVEY IN SAGUENAY FJORD.
- 76  
HUTCHINS, R.W., DODDS, J., FADER, G. 1985. SEABED II: HIGH-RESOLUTION ACOUSTIC SEABED SURVEYS OF THE DEEP OCEAN. IN: OFFSHORE SITE INVESTIGATION; PROCEEDINGS OF AN INTERNATIONAL CONFERENCE (1985 : LONDON, UK). LONDON: GRAHAM & TROTMAN LTD. P.69-83. (ADVANCES IN UNDERWATER TECHNOLOGY AND OFFSHORE ENGINEERING 3)
- PRESENTS THE RESULTS OF THE SEABED II 1984 SEA TRIALS ON THE SCOTIAN SLOPE AND HISTORICAL - TECHNICAL BACKGROUND OF THE SEABED PROJECT.
- 77  
JACKSON, H.R. 1985. KNOWLEDGE OF THE ALPHA RIDGE PRIOR TO CESAR. IN: INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN, ED., H.R. JACKSON, P.J. MUDIE, AND S.M. BLASCO. GEOLOGICAL SURVEY OF CANADA PAPER 84-22: 11-14.
- 78  
JACKSON, H.R. 1985. NARES STRAIT - A SUTURE ZONE: GEOPHYSICAL AND GEOLOGICAL IMPLICATIONS. IN: GEOPHYSICS OF THE POLAR REGIONS; SELECTED PAPERS FROM THE SYMPOSIUM ON GEOPHYSICS OF THE POLAR REGIONS, I.U.G.G GENERAL ASSEMBLY (18TH : 1983 : HAMBURG, F.R.G.), ED., E.S. HUSEBYE, G.L. JOHNSON, AND Y. KRISTOFFERSEN. TECTONOPHYSICS 114(1/4): 11-28.
- THE MOTION OF GREENLAND RELATIVE TO ELLESMERE ISLAND IS DETERMINED FROM WELL CONSTRAINED PLATE MOTIONS. THE VALIDITY OF THE RECONSTRUCTIONS IS CHECKED BY EXAMINING THE STABILITY CHARACTERISTICS OF THE TRIPLE JUNCTIONS, THE REGIONAL AND LOCAL GEOLOGY AND THE EVENTS OF THE EUREKAN OROGENY. NARES STRAIT IS INTERPRETED IN TERMS OF THE WILSON CYCLE AND CATEGORIZED AS A CRYPTIC SUTURE ZONE.
- 79  
JACKSON, H.R. 1985. SEISMIC REFLECTION RESULTS FROM CESAR. IN: INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN, ED., H.R. JACKSON, P.J. MUDIE, AND S.M. BLASCO. GEOLOGICAL SURVEY OF CANADA PAPER 84-22: 19-23.

80

JACKSON, H.R., KOPPEN, L. 1985. THE NARES STRAIT GRAVITY ANOMALY AND ITS IMPLICATIONS FOR CRUSTAL STRUCTURE. CANADIAN JOURNAL OF EARTH SCIENCES 22(9): 1322-1328.

TWO GRAVITY PROFILES ACROSS ELLESMERE ISLAND AND NARES STRAIT REVEAL A NEGATIVE ANOMALY OF -100 TO -120 MGALS THAT IS PART OF A REGIONAL LOW ALONG NARES STRAIT. MODELLING INDICATES THE ANOMALY CANNOT BE CAUSED BY THE WATER OR SEDIMENT IN THE STRAIT. THE ANOMALY MODELLING CONTROLLED BY AVAILABLE GEOLOGICAL AND GEOPHYSICAL CONSTRAINT SUGGESTS THE M DISCONTINUITY INCREASES IN DEPTH FROM GREENLAND TO ELLESMERE ISLAND. THIS DIP IS CONSISTENT WITH PLATE RECONSTRUCTION.

81

JACKSON, H.R., MUDIE, P.J., BLASCO, S.M. (EDS.) 1985. INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN. GEOLOGICAL SURVEY OF CANADA PAPER 84-22. 177P.

THIS PAPER DESCRIBES THE 16 PISTON AND 12 GRAVITY CORES, BEDROCK SAMPLES AND RELATED GEOPHYSICAL AND GEOLOGICAL DATA OBTAINED AT CESAR. THE LATE PLIOCENE TO HOLOCENE RECORD IS CAREFULLY DOCUMENTED. IN ADDITION, A LATE CAMPANION AGE IS ASSIGNED TO THE BASE OF CORE 6. A FRAGMENTAL VOLCANIC ROCK WAS DREDGED FROM AN OUTCROP OF ACOUSTIC BASEMENT. THIS INFORMATION RESTRICTS THE AGE AND ORIGIN OF THE ALPHA RIDGE.

82

JANSA, L.F., PE-PIPER, G. 1985. EARLY CRETACEOUS VOLCANISM ON THE NORTHEASTERN AMERICAN MARGIN AND IMPLICATIONS FOR PLATE TECTONICS. GEOLOGICAL SOCIETY OF AMERICA BULLETIN 96(1): 83-91.

83

JANSA, L.F., PE-PIPER, G. 1985. PALEOZOIC IN THE NORTHUMBERLAND STRAIT AND TECTONIC SIGNIFICANCE OF INTERCALATED IGNEOUS ROCKS [ABSTRACT]. IN: TECTONIC MODELS FOR THE EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY 1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY 21(1/3): 44.

THE OFFSHORE OIL EXPLORATORY WELL HB FINA NORTHUMBERLAND STRAIT F-25 PENETRATED A PALEOZOIC SEQUENCE COMPOSED OF 3 KM OF DEVONO-CARBONIFEROUS SEDIMENTS WHICH UNCONFORMABLY OVERLY METAMORPHOSED ORDOVICIAN-SILURIAN METASEDIMENTS AND METAVOLCANICS. TWO IGNEOUS HORIZONS ENCOUNTERED IN THE WELL HAVE DIFFERENT HISTORIES. THE OLDER IS LOWER SILURIAN BASALT FLOWS, THE UPPER A TRIASSIC DYKE.

84

JODREY, F., HEFFLER, D. 1985. PISTON CORING ON CESAR. IN: INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN, ED., H.R. JACKSON, P.J. MUDIE, AND S.M. BLASCO. GEOLOGICAL SURVEY OF CANADA PAPER 84-22: 175-177.

85

JONGSMA, D., VAN HINTE, J.E., WOODSIDE, J.M. 1985. GEOLOGIC STRUCTURE AND NEOTECTONICS OF THE NORTH AFRICAN CONTINENTAL MARGIN SOUTH OF SICILY. MARINE AND PETROLEUM GEOLOGY 2(2): 156-179.

THE DEVELOPMENT OF THE PASSIVE CONTINENTAL MARGIN OF NORTH AFRICA SOUTH OF SICILY SINCE JURASSIC INCLUDES A NEOCOMIAN TO EOCENE PERIOD OF DEXTRAL SHEAR IN THE NW-SE TRENDING TRIPOLITANIAN AND JARRAFA TROUGHS AND MIOCENE TO PRESENT DEXTRAL SHEAR THROUGH THE SICILY CHANNEL. THE LATTER WRENCHING IN REACTION TO THE COLLISION OF AFRICA AND EUROPE HAS CREATED A MICROPLATE SEPARATED FROM AFRICA BY DEEP GRABENS, NARROW ZONES OF TRANSCURRENT MOTION, AND HORST BLOCKS.

86

JOSEPHANS, H.W., BARRIE, J.V., WOODWORTH-LYNAS, C.M.T., PARROTT, D.R. 1985. DIGS-85: DYNAMICS OF ICEBERG GROUNDING AND SCOURING: OBSERVATION OF ICEBERG SCOUR MARKS BY MANNED SUBMERSIBLE [ABSTRACT]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.92. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

DIRECT OBSERVATIONS WERE MADE OF ICEBERG IMPACT AND SCOUR SITES, SOME OF WHICH WERE FORMED BY MONITORED ICEBERGS.

87

JOSEPHANS, H.W., FROBEL, D. 1985. HOW DO ICEBERGS AFFECT THE SEA FLOOR? GEOLOGICAL SURVEY OF CANADA OPEN FILE 1040: 1 VIDEOTAPE.

THIS 11-MINUTE VIDEO PROGRAM (VHS OR BETA) DESCRIBES THE EFFECTS OF ICEBERGS UPON THE SEA FLOOR, THE EFFECTS ON THE OFFSHORE INDUSTRY, WHERE ICEBERGS ORIGINATE, HOW THEY ARE STUDIED AND WHAT SOME OF THE OUTSTANDING RESEARCH AREAS ARE.

88

JOSEPHANS, H., JENNINGS, A., CLARK, P., BELL, T., RODGERSON, R. 1985. ONSHORE - OFFSHORE CORRELATION - NORTHERN LABRADOR [ABSTRACT]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.136. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

ONSHORE-OFFSHORE STUDIES CARRIED OUT IN NACHVAK AND SAGALEK FJORDS IN THE SUMMER OF 1985 ARE DISCUSSED.

89

KEEN, C.E. 1985. EVOLUTION OF RIFTED CONTINENTAL MARGINS. GEOLOGICAL SURVEY OF CANADA PAPER 85-8: 10.

A REVIEW OF MODELS OF THE RIFTING PROCESS, EMPHASIZING THE PRACTICAL PREDICTIVE ASPECTS OF GEODYNAMIC MODELS, PARTICULARLY IN TERMS OF SEDIMENT MATURITY AND HYDROCARBON GENERATIONS.

90

KEEN, C.E. 1985. THE DYNAMICS OF RIFTING: DEFORMATION OF THE LITHOSPHERE BY ACTIVE AND PASSIVE DRIVING FORCES. GEOPHYSICAL JOURNAL OF THE ROYAL ASTRONOMICAL SOCIETY 80(1): 95-120.

THE THERMAL AND MECHANICAL BEHAVIOUR OF THE LITHOSPHERE WAS INVESTIGATED, USING A RHEOLOGY MODEL WITH A BRITTLE UPPER, AND A VISCOUS LOWER LAYER. THE DEFORMATION, SUBSIDENCE (OR UPLIFT) AND THERMAL HISTORIES WERE COMPUTED. RESULTS SHOW THAT DEFORMATION BY STRETCHING MAY HAVE CONSEQUENCES OTHER THAN THOSE DESCRIBED BY SIMPLE KINEMATIC MODELS. ACTIVE RIFTING PROCEEDS FROM THE BOTTOM UP, AT A RATE DETERMINED BY THE THERMAL PROPERTIES OF THE LITHOSPHERE.

91

KEEN, C.E., HAWORTH, R.T. 1985. NORTH AMERICAN CONTINENT OCEAN TRANSECTS PROGRAM, TRANSECT D2: TRANSFORM MARGIN SOUTH OF GRAND BANKS: OFFSHORE EASTERN CANADA. BOULDER, CO: GEOLOGICAL SOCIETY OF AMERICA. 6P. & 1 CHART. (CONTINENT-OCEAN TRANSECT D2) (CENTENNIAL CONTINENT/OCEAN TRANSECT 2)

92

KEEN, C.E., HAWORTH, R.T. 1985. NORTH AMERICAN CONTINENT OCEAN TRANSECTS PROGRAM, TRANSECT D3: RIFTED CONTINENTAL MARGIN OFF NOVA SCOTIA: OFFSHORE EASTERN CANADA. BOULDER, CO: GEOLOGICAL SOCIETY OF AMERICA. 7P. & 1 CHART. (CONTINENT-OCEAN TRANSECT D3) (CENTENNIAL CONTINENT/OCEAN TRANSECT 3)

93

KEEN, C.E., HAWORTH, R.T. 1985. NORTH AMERICAN CONTINENT OCEAN TRANSECTS PROGRAM, TRANSECT D4: RIFTED CONTINENTAL MARGIN OFF LABRADOR. BOULDER, CO: GEOLOGICAL SOCIETY OF AMERICA. 5P. & 1 CHART. (CONTINENT-OCEAN TRANSECT D4) (CENTENNIAL CONTINENT/OCEAN TRANSECT 4)

94

KEEN, C.E., HAWORTH, R.T. 1985. RIFTED MARGIN OFFSHORE NORTHEAST NEWFOUNDLAND [CHART]. BOULDER, CO: GEOLOGICAL SOCIETY OF AMERICA. P.1 CHART PLUS BOOKLET. (CONTINENT-OCEAN TRANSECT D1(EAST)) (CENTENNIAL CONTINENT/OCEAN TRANSECT 1) ISSUED IN ENVELOPE WITH PUBLICATIONS 71 AND 95 AS SINGLE PUBLICATION.

95

KEEN, C.E., HAWORTH, R.T., WILLIAMS, H. 1985. NORTHERN APPALACHIANS; GRENVILLE PROVINCE, QUEBEC TO AVALON ZONE, NEWFOUNDLAND [CHART]. BOULDER, CO: GEOLOGICAL SOCIETY OF AMERICA. P.1 CHART PLUS BOOKLET. (CONTINENT-OCEAN TRANSECT D1(WEST)) (CENTENNIAL CONTINENT/OCEAN TRANSECT 1) ISSUED IN ENVELOPE WITH PUBLICATIONS 71 AND 94 AS SINGLE PUBLICATION.

96

KEEN, C.E., STOCKMAL, G.S., COLMAN-SADD, S.P., O'BRIEN, S.J., QUINLAN, G. 1985. LITHOPROBE EAST: MARINE DEEP SEISMIC REFLECTION RESULTS ACROSS THE APPALACHIANS AND THE RIFTED CONTINENTAL MARGIN NORTHEAST OF NEWFOUNDLAND [ABSTRACT]. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS 17(7): 625.

REVIEWS THE PRELIMINARY RESULTS FROM DEEP SEISMIC REFLECTION DATA ACROSS THE APPALACHIANS AND THE RIFTED CONTINENTAL MARGIN.

- 97  
KEEN, M.J. 1985. DAWSON, WILLIAM BELL [BIOGRAPHY]. IN: THE CANADIAN ENCYCLOPEDIA. EDMONTON, ALTA.: HURTIG PUBLISHERS. V.1: 475.
- 98  
KENT, D.V., GRADSTEIN, F.M. 1985. A CRETACEOUS AND JURASSIC GEOCHRONOLOGY. GEOLOGICAL SOCIETY OF AMERICA BULLETIN 96(11): 1419-1427.
- INTEGRATED GEOMAGNETIC POLARITY, BIOSTRATIGRAPHY CHRONOSTRATIGRAPHY ARE PLACED IN A NEWLY CALCULATED GEOCHRONOLOGY & NEW METHODOLOGY TO INTERPOLATE RADIOMETRICS AND NEW MESONIC OPERATION, DNAG SCALE COMPANION PAPER TO ONE ON CENOZOIC SCALE IN SAME JOURNAL.
- 99  
KERR, A.J., KEEN, M.J. 1985. HYDROGRAPHIC AND GEOLOGIC CONCERNS OF IMPLEMENTING ARTICLE 76. INTERNATIONAL HYDROGRAPHIC REVIEW 62(1): 139-148.
- THE AUTHORS EXAMINE THE SCIENTIFIC AND TECHNICAL PROBLEMS INVOLVED IN IMPLEMENTING ARTICLE 76.
- 100  
KING, L.H., FADER, G.B., POOLE, W.H., WANLESS, R.K. 1985. GEOLOGICAL SETTING AND AGE OF THE FLEMISH CAP GRANODIORITE, EAST OF THE GRAND BANKS OF NEWFOUNDLAND. CANADIAN JOURNAL OF EARTH SCIENCES 22(9): 1286-1298.
- 101  
KONG, L., RYAN, W.B.F., MAYER, L.A., DETRICK, R.S., FOX, P.J., MANCHESTER, K. 1985. BARE-ROCK DRILL SITES, O.D.P. LEGS 106 AND 109: EVIDENCE FOR HYDROTHERMAL ACTIVITY AT 23 DEGREES N ON THE MID-ATLANTIC RIDGE [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 936.
- SEABEAM, SEAMARC I AND BOTTOM PHOTOGRAPHY ALONG THE MID ATLANTIC RIDGE AT 23 N HAVE BEEN USED TO IDENTIFY THREE POTENTIAL BARE ROCK DRILLING SITES FOR O.D.P. LEGS 106 - 109. RECENT VOLCANIC ACTIVITY IS INFERRED ALONG WITH BOTTOM PHOTOGRAPHS SHOWING A POCKET OF HYDROTHERMAL SEDIMENT AS WELL AS CRABS AND DEAD TUBE WORMS.
- 102  
LANGDON, D.R., BELL, J.S., FRICKER, A. 1985. LOGAN CANYON FORMATION LITHOFACIES: SCOTIAN SHELF [ABSTRACT]. IN: TECTONIC MODELS FOR THE EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY 1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY 21(1/3): 33.
- LITHFILE DATA POINTS TO THE LOGAN CANYON FORMATION CLASTIC MATERIAL BEING SUPPLIED BY 3 SOUTH-FLOWING DISTRIBUTARY SYSTEMS AND BLENDED BY SOUTHWESTWARD LONGSHORE DRIFT.
- 103  
LENTIN, J.K., WILLIAMS, G.L. 1985. FOSSIL DINOFLAGELLATES: INDEX TO GENERA AND SPECIES, 1985 EDITION. CANADIAN TECHNICAL REPORT OF HYDROGRAPHY AND OCEAN SCIENCES 60. 451P.
- THE PAPER LISTS ALL VALIDLY PUBLISHED FOSSIL DINOFLAGELLATE GENERA AND SPECIES, SUBSPECIES WHERE APPROPRIATE, ALL PREVIOUSLY KNOWN GENERIC ASSIGNMENTS OF INCLUDED SPECIES, AND THE AGE OF TYPE MATERIAL.
- 104  
LEWIS, C.F.M., PARROTT, D.R., LEVER, J.H., DIEMAND, D., DYKE, M., CARTER, W.J., STIRBYS, A.F. 1985. DIGS-85: DYNAMICS OF ICEBERG GROUNDING AND SCOURING: ICEBERG AND SEABED MAPPING OBSERVATIONS [ABSTRACT]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.93. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)
- 105  
M.J. O'CONNOR AND ASSOCIATES LTD., NANTAIS, P.T. 1985. GEOLOGICAL DATA COMPILATION FOR MARINE AREAS OF THE CANADIAN ARCHIPELAGO. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1159. 1V. & 31 CHARTS.
- EVALUATES THE PETROLEUM GEOCHEMISTRY OF SCOTIAN SHELF USING CORRECTED TEMPERATURES, TAI, TTI, % RO, TOC AND CUTTINGS GAS ANALYSES. A MODEL TO EXPLAIN HYDROCARBON OCCURRENCES IS PRESENTED.
- 106  
MACLEAN, B. 1985. GEOLOGY OF THE BAFFIN ISLAND SHELF. IN: QUATERNARY ENVIRONMENTS: EASTERN CANADIAN ARCTIC, BAFFIN BAY AND WESTERN GREENLAND, ED., J.T. ANDREWS. BOSTON: ALLEN & UNWIN. P.154-177.

107

MACNAB, R., LONCAREVIC, B.D., COOPER, R.V., GIROUARD, P.R., HUGHES, M.D., SHOUZHI, F. 1985. A REGIONAL MARINE MULTIPARAMETER SURVEY SOUTH OF NEWFOUNDLAND. GEOLOGICAL SURVEY OF CANADA PAPER 85-1B: 325-332.

PRELIMINARY DISCUSSION OF RESULTS OF HYDROGRAPHIC - GEOPHYSICAL SURVEY IN LAURENTIAN CHANNEL - ST. PIERRE BANK AREA.

108

MACNAB, R., PLASSE, D., GRAVES, M. 1985. AN INDEX OF COMMERCIALY-ACQUIRED POTENTIAL FIELD DATA IN THE CANADIAN EAST COAST OFFSHORE. GEOLOGICAL SURVEY OF CANADA PAPER 85-1B: 467-469.

A REVIEW OF PUBLIC REPORTS HELD BY COGLA HAS RESULTED IN A COMPREHENSIVE CATALOGUE OF INDUSTRY OPERATIONS, PLUS THE IDENTIFICATION OF A NUMBER OF COMMERCIAL DATA SETS THAT MAY BE USEFUL TO ENHANCE GOVERNMENT POTENTIAL FIELD DATA.

109

MACNAB, R., SHIH, K.G., SRIVASTAVA, S.P. 1985. APPLICATION OF THE NEW INTERNATIONAL GEOMAGNETIC REFERENCE FIELD (IGRF80) TO LARGE SETS OF MARINE MAGNETOMETER DATA. PHYSICS OF THE EARTH AND PLANETARY INTERIORS 37(1): 5-11.

COMPARISONS OF NEW AND OLD IGRF MODELS THROUGH APPLICATION TO AGC MARINE MAGNETIC DATA SETS CONFIRM THE SUPERIORITY OF THE NEW; AND APPROXIMATION TECHNIQUE HAS BEEN DEVELOPED THAT SPEEDS UP COMPUTER EVALUATION OF THE NEW EXPRESSION WITH LITTLE SACRIFICE IN ACCURACY.

110

MAYER, L.A., RYAN, W.B.F., DETRICK, R.S., FOX, P.J., KONG, L., MANCHESTER, K. 1985. STRUCTURE AND TECTONICS OF THE MID-ATLANTIC RIDGE SOUTH OF THE KANE FRACTURE ZONE BASED ON SEA MARC I AND SEA BEAM SITE SURVEYS [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 1092.

A US/CANADIAN RESEARCH TEAM HAS RECENTLY COMPLETED DETAILED SITE SURVEYS AT THE M.A.R. SOUTH OF THE KANE FRACTURE ZONE AIMED AT IDENTIFYING SITES SUITABLE FOR BARE-ROCK DRILLING. AN AREA 15 KM X 100 KM LONG WAS SURVEYED USING SEABEAM & SEAMARC I FROM WHICH THE TECTONICS AND THE STRUCTURE OF THE AREA COULD BE INTERPRETED.

111

MEYER, A., BOILLOT, G., WINTERER, E., APPLGATE, J., BALTUCK, M., BERGEN, J., COMAS, M., DAVIES, T., DUNHAM, K., EVANS, C., GIRARDEAU, J., GOLDBERG, D., HAGGERTY, J., JANSÁ, L., JOHNSON, J., KASAHARA, J., LOREAU, J.P., LUNA, E., MOULLADE, M., OGG, J., SARTI, M., THUROW, J., WILLIAMSON, M. 1985. EARLY CRETACEOUS RIFTING AND ORIGIN OF THE 'S' REFLECTOR: PRELIMINARY RESULTS OF OCEAN DRILLING PROGRAM LEG 103 [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 917.

THE DRILLING DEMONSTRATED THAT EXTENSIVE RIFTING OF THE OUTER GALICIA MARGIN OCCURRED DURING EARLY CRETACEOUS. THE 'S' REFLECTOR CONSIDERED TO REPRESENT BRITTLE/DUCTILE CRUST BOUNDARY IS A REFLECTOR AT THE BASE OF THE RIFT SEQUENCE AND THUS PROBABLY OF SEDIMENTARY ORIGIN.

112

MILLER, A.A.L., SCOTT, D.B., SMITH, D. 1985. POST-GLACIAL PALEO-OCEANOGRAPHY, NORTHEAST NEWFOUNDLAND SHELF. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1194. 1V. (DALHOUSIE UNIVERSITY, CENTRE FOR MARINE GEOLOGY, TECHNICAL REPORT 4)

FIVE BENTHIC FORAMINIFERAL ASSEMBLAGES INDICATE FLUCTUATIONS IN WATERMASS CHARACTERISTICS ON THE NEWFOUNDLAND SHELF DURING THE LATE QUATERNARY. THE EVIDENCE SUGGESTS AN ONSHORE-OFFSHORE MIGRATION OF THE LABRADOR CURRENT CORE WITH AN INCREASED INNER LABRADOR CURRENT INFLUENCE AT THE PRESENT TIME.

113

MORAN, K., CHRISTIAN, H. 1985. TRIAXIAL SHEAR STRENGTH TESTING FACILITY FOR THE WESTERN ARCTIC. GEOLOGICAL SURVEY OF CANADA PAPER 85-1A: 697-698.

114

MORRIS, T.H., CLARK, D.L., BLASCO, S.M. 1985. SEDIMENTS OF THE LOMONOSOV RIDGE AND MAKAROV BASIN: A PLEISTOCENE STRATIGRAPHY FOR THE NORTH POLE. GEOLOGICAL SOCIETY OF AMERICA BULLETIN 96(7): 901-910.

115

MUDIE, P.J. 1985. PALYNOLOGY OF THE CESAR CORES, ALPHA RIDGE. IN: INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN, ED., H.R. JACKSON, P.J. MUDIE, AND S.M. BLASCO. GEOLOGICAL SURVEY OF CANADA PAPER 84-22: 149-174.

116

MUDIE, P.J., BLASCO, S.M. 1985. LITHOSTRATIGRAPHY OF THE CESAR CORES. IN: INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN, ED., H.R. JACKSON, P.J. MUDIE, AND S.M. BLASCO. GEOLOGICAL SURVEY OF CANADA PAPER 84-22: 59-99.

117

MUDIE, P.J., JACKSON, H.R. 1985. SUMMARY = SOMMAIRE [INITIAL GEOLOGICAL REPORT ON CESAR]. IN: INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN, ED., H.R. JACKSON, P.J. MUDIE, AND S.M. BLASCO. GEOLOGICAL SURVEY OF CANADA PAPER 84-22: 3-10.

118

MUDIE, P.J., SHORT, S.K. 1985. MARINE PALYNOLOGY OF BAFFIN BAY. IN: QUATERNARY ENVIRONMENTS: EASTERN CANADIAN ARCTIC, BAFFIN BAY AND WESTERN GREENLAND, ED., J.T. ANDREWS. BOSTON: ALLEN & UNWIN. P.263-308.

119

NANTAIS, P.T. 1985. REGIONAL HYDROCARBON POTENTIAL OF THE LABRADOR SHELF. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1197. 1V.

THE HYDROCARBON POTENTIAL OF THE LABRADOR SHELF HAS BEEN EVALUATED USING SOURCE ROCK ANALYSES AND MATURATION INDICES FROM 14 WELLS. THE SEDIMENTS CONTAIN ABOVE AVERAGE CONCENTRATIONS OF ORGANIC MATTER. THE AVERAGE GEOTHERMAL GRADIENT IS 2.93 C/100 M AND FULL MATURITY IS ATTAINED AT 3000-3300 M. EVIDENCE IS PRESENTED TO SUPPORT THE GENERATION OF GAS AND CONDENSATE FROM TYPES 2 AND 3 ORGANIC MATTER AT RELATIVELY LOW LEVELS OF MATURATION.

120

NORDCO LTD., [FADER, G.B.], [BARCHARD, W.] 1985. REPORT ON STUDY OF RESIDUAL TOXICITY AND DEBRIS ON HIBERNIA P-15, B-08 AND K-18 WELLSITES. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1127. 1V. & 3 CHARTS.

PRESENTS THE RESULTS OF AN OERD FUNDED PROJECT BY ENVIRONMENT CANADA, TO ASSESS THE PHYSICAL DEBRIS AT THE SEABED AND THE TRACE METAL CONTENT AND HYDROCARBON CONTENT OF SEABED SEDIMENT AND THE BENTHIC INFAUNA. RESULTS INDICATE ONLY LOCAL EFFECTS.

121

PE-PIPER, G., MACDONALD, A., BONER, F., BLANK, M., PIPER, D.J.W. 1985. PRECAMBRIAN GEOLOGY OF THE WESTERN COBEQUID HILLS [ABSTRACT]. IN: TECTONIC MODELS FOR THE EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY 1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY 21(1/3): 34.

THE JEFFERS BROOK FORMATION HAS BEEN REMAPPED. A COMPLEX SERIES OF LATE PRE-CAMBRIAN IGNEOUS EVENTS HAVE BEEN DEFINED.

122

PE-PIPER, G., PIPER, D.J.W. 1985. LATE-CENOZOIC CLAYS AND CLIMATIC CHANGE IN THE POST-OROGENIC LAKONIA GRABEN, SOUTHERN GREECE. NEUES JAHRBUCH FUER MINERALOGIE ABHANDLUNGEN 151(3): 301-313.

123

PEREIRA, C.P.G., PIPER, D.J.W., SHOR, A.N. 1985. SEAMARC I MIDRANGE SIDESCAN SONAR SURVEY OF FLEMISH PASS, EAST OF THE GRAND BANKS OF NEWFOUNDLAND. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1161. 23P. & 23 PHOTOS.

THIS OPEN FILE CONSISTS OF A SEAMARC I SIDESCAN MOSAIC OF PART OF WEST CENTRAL FLEMISH PASS, A DESCRIPTIVE TEXT, AND ILLUSTRATIONS OF SIDESCAN, HUNTEC AND ECHOSOUNDER RECORDS. TWO ICEBERG SCOUR POPULATIONS ARE VISIBLE ON THE SLOPE. SCARPS AND MASS FLOW DEPOSITS OF PROBABLE MID-WISCONSINAN AGE ARE MANTLED BY YOUNGER SEDIMENT.

124

PHILLIPS, J.D., WINKLER, H., STOFFA, P., BJORKLUND, K., BLEIL, U., CIESIELSKI, P., DESPRAIRIES, A., DONNALLY, D., ELDHOLM, O., FROGET, C., GOLL, R., HENRICH, R., JANSEN, E., KRISSEK, L., KVENVOLDEN, K., LEHURAY, A., LOVE, D., LYSNE, P., MCDONALD, T., MUDIE, P., OSTERMAN, L., PARSON, L., PHILLIPS, J., PITTENGER, A., QVALE, G., SCHOENHARTING, G., TAYLOR, E., THIEDE, J., VIREECK, L. 1985. VERTICAL SEISMIC PROFILE OF SEAWARD DIPPING REFLECTOR SEQUENCE - VORING PLATEAU, ODP LEG 104, SITE 642 [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 977.

A VERTICAL SEISMIC REFLECTION EXPERIMENT WAS CARRIED OUT FROM A DEPTH OF 1111 - 451 M DOWNHOLE AT SITE 642 WHICH DRILLED REFLECTOR K AND THE DIPPING REFLECTOR SEQUENCE IN THE EASTERN NORWEGIAN SEA. INSTRUMENTATION USED AND PRELIMINARY ANALYSIS OF THE MULTIPLE AIRGUN DATA ARE DESCRIBED.



125

PIPER, D.J.W. 1985. CONTINENTAL SLOPE FACIES: ANCIENT AND MODERN. GEOLOGICAL SURVEY OF CANADA PAPER 85-8: 9.

THE SCOTIAN SLOPE IS A HIGH SEDIMENTATION RATE ICE-PROXIMAL ENVIRONMENT WITH A HISTORICAL RECORD OF LARGE EARTHQUAKES THAT HAVE TRIGGERED SLUMPS AND SLIDES. MOST RECENTLY IN 1929. FACIES ASSOCIATIONS ARE DEFINED BETWEEN HEMIPELAGIC SEDIMENT, ICE-MARGIN SANDY TURBIDITES, SLUMPS, DEBRIS FLOWS AND MUDDY TURBIDITES. ANALOGOUS FEATURES ARE FOUND ON MANY ANCIENT CONTINENTAL SLOPES.

126

PIPER, D.J.W. 1985. CRUISE REPORT, DAWSON 85-036, 5-8 NOVEMBER 1985 [BRAS D'OR LAKES]. BIO CRUISE REPORT 85-036. 7P.

THIS CRUISE COLLECTED SEISMIC PROFILES, SEDIMENT AND WATER SAMPLES FROM THE BRAS D'OR LAKES.

127

PIPER, D.J.W., FARRE, J.A., SHOR, A. 1985. LATE QUATERNARY SLUMPS AND DEBRIS FLOWS ON THE SCOTIAN SLOPE. GEOLOGICAL SOCIETY OF AMERICA BULLETIN 96(12): 1508-1517.

SIDESCAN, HIGH-RESOLUTION SEISMIC AND CORES HAVE BEEN USED TO DEFINE A SLUMP TO DEBRIS FLOW TO TURBIDITE TRANSITION IN THE SCOTIAN SLOPE NEAR VERRILL CANYON. THE SLUMP WAS TRIGGERED BY AN EARTHQUAKE 5 TO 12 THOUSAND YEARS AGO.

128

PIPER, D.J.W., SHOR, A.N., FARRE, J.A., O'CONNELL, S., JACOBI, R. 1985. SEDIMENT SLIDES AND TURBIDITY CURRENTS ON THE LAURENTIAN FAN: SIDESCAN SONAR INVESTIGATIONS NEAR THE EPICENTER OF THE 1929 GRAND BANKS EARTHQUAKE. GEOLOGY 13(8): 538-541.

MUCH OF THE SEABED WITHIN 30 KM OF THE EPICENTRE OF THE 1929 GRAND BANKS EARTHQUAKE IS SLUMPED. GRAVEL WAVES IN THE EASTERN VALLEY OF THE LAURENTIAN FAN WERE FORMED BY THE ASSOCIATED TURBIDITY CURRENT.

129

PIPER, D.J.W., SHOR, A.N., HUGHES CLARK, J. 1985. THE 1929 GRAND BANKS EARTHQUAKE, SLUMP AND TURBIDITY CURRENT [ABSTRACT]. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS 17(7): 690.

130

PIPER, D.J.W., SPARKES, R., MOSHER, D.C., SHOR, A.N., FARRE, J.A. 1985. SEABED INSTABILITY NEAR THE EPICENTRE OF THE 1929 GRAND BANKS EARTHQUAKE. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1131. 55P.

THIS OPEN FILE CONSISTS OF A SIDESCAN SONAR MOSAIC AT 1:200,000 OF ABOUT 5000 KM<sup>2</sup> OF CONTINENTAL SLOPE OFF THE LAURENTIAN CHANNEL AND ST. PIERRE BANK, AROUND THE EPICENTRE OF THE 1929 GRAND BANKS EARTHQUAKE, TOGETHER WITH A SHORT INTERPRETATIVE TEXT AND ILLUSTRATIONS.

131

PIPER, D.J.W., TAYLOR, R.B., RICKETTS, P. 1985. COASTAL GEOLOGY AND SCENERY, SOUTH SHORE, NOVA SCOTIA [COASTAL AND MARINE GEOLOGY OF THE SOUTH SHORE, NOVA SCOTIA]: [FIELD TRIP A] - ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : [BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.]). [DARTMOUTH, N.S.: THE WORKSHOP]. 40P. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1322)

FIELD GUIDES WERE PREPARED FOR THREE LOCAL EXCURSIONS HELD IN CONJUNCTION WITH THE 14TH ARCTIC WORKSHOP NOV. 6-8, 1985. THIS FIELD GUIDE INCLUDES BACKGROUND GLACIAL, MARINE AND COASTAL GEOLOGY FOR THE AREA BETWEEN HALIFAX HARBOUR AND GREEN BAY. SEVEN STOP DESCRIPTIONS ARE PROVIDED FOR ONE-DAY TRIP.

132

PODROUZEK, A.J., BELL, J.S. 1985. SCOTIAN SHELF IN-SITU STRESS REGIME INTERPRETED FROM OIL WELL DATA [ABSTRACT]. IN: TECTONIC MODELS FOR THE EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY 1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY 21(1/3): 35.

THE SCOTIAN SHELF IS ANISOTROPICALLY STRESSED IN A STRESS REGIME WHERE SHMAX > SV > SHMIN AND SHMAX IS ORIENTED NE-SW, ACCORDING TO DRILLING RECORDS OF OFFSHORE WELLS AND ANALYSIS OF BOREHOLE BREAKOUTS.

133

PODROUZEK, A.J., BELL, J.S. 1985. STRESS ORIENTATIONS FROM WELLBORE BREAKOUTS ON THE SCOTIAN SHELF, EASTERN CANADA. GEOLOGICAL SURVEY OF CANADA PAPER 85-1B: 59-62.

WELLBORE BREAKOUTS FROM 38 SCOTIAN SHELF WELLS INDICATE THAT THE LARGER HORIZONTAL STRESS IS ORIENTED NE-SW IN THE SCOTIAN BASIN AND OVER THE LEHAVE PLATFORM. IN-SITU STRESSES MAY BE DIFFERENTLY DIRECTED IN PARTS OF THE ORPHEUS GRABEN.

134

POLEY, D.F., LAWTON, D.C. 1985. ACQUISITION AND PROCESSING OF HIGH RESOLUTION REFLECTION SEISMIC DATA FROM PERMAFROST AFFECTED AREAS OF THE CANADIAN PART OF THE BEAUFORT SEA. GEOLOGICAL SURVEY OF CANADA PAPER 85-1A: 491-498.

AN ASSESSMENT OF THE ACQUISITION AND PROCESSING TECHNIQUES APPLIED TO SHALLOW HIGH RESOLUTION SEISMIC REFLECTION DATA HAS BEEN INITIATED. RESULTS OF SOURCE SIGNATURE TESTS, DATA PROCESSING AND IMPLEMENTATION OF A RAY TRACING-AMPLITUDE PROGRAM SUGGESTS CURRENT ACQUISITION USE OF LONG ARRAYS AND STANDARD CDP STACKING TECHNIQUES ARE INAPPROPRIATE FOR AREAS WITH SEVERE SHALLOW VELOCITY ANISOTROPY.

135

PRAEG, D.B., MACLEAN, B., HARDY, I.A., MUDIE, P.J. 1985. QUATERNARY GEOLOGY OF THE SOUTHEAST BAFFIN ISLAND CONTINENTAL SHELF, N.W.T. [POSTER]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.217. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

THE QUATERNARY SEDIMENTS OF THE SOUTHEAST SHELF HAVE BEEN STUDIED USING ACOUSTIC AND SAMPLE DATA. FOUR UNITS HAVE BEEN DEFINED AND INFORMALLY NAMED: BAFFIN ISLAND DRIFT, DAVIS STRAIT SILT, TINIKTARTUG SILT AND CLAY, RESOLUTION ISLAND LAG.

136

RASHID, M.A. 1985. GEOCHEMISTRY OF MARINE HUMIC COMPOUNDS. NEW YORK: SPRINGER-VERLAG. 300P.

137

REID, I., KEEN, C. 1985. CRUSTAL STRUCTURE OF THE OCEAN-CONTINENT TRANSFORM BOUNDARY SOUTH OF THE NEWFOUNDLAND GRAND BANKS [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 956.

A DISCUSSION OF THE CRUSTAL STRUCTURE OF THIS TRANSFORM MARGIN, AND IMPLICATIONS FOR OTHER TRANSFORM MARGINS.

138

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SCHAFFER, C.T., CARTER, L. 1985. WESTERN BOUNDARY UNDERCURRENT DEPOSITIONAL FEATURES ON THE LABRADOR SLOPE AND RISE NEAR LATITUDE 55N [ABSTRACT]. EOS; TRANSACTIONS, AMERICAN GEOPHYSICAL UNION 66(46): 937.

SEISMIC RECORDS AND GRAVITY CORES COLLECTED IN THE AXIAL REGION OF THE WBUC INDICATE THAT SEDIMENT THICKNESS VARIES Laterally ALONG THE AXIS AND IS THICKEST ADJACENT TO DEEP (I.E. ACTIVE) CANYONS. SOME BEDFORMS APPEAR TO BE MIGRATING UP CURRENT.

142

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LIVING AND TOTAL ASSEMBLAGES OF ARENACEOUS AND CALCAREOUS FORAMINIFERA FROM SHALLOW NEARSHORE AND DEEP BASIN ENVIRONMENTS OF THREE BAFFIN ISLAND FIORDS SUGGEST SOME BETWEEN - FIORD ENVIRONMENTAL VARIATIONS AND INDICATE WITHIN - FIORD PASSIVE REDISTRIBUTION OF SPECIES ESPECIALLY IN OFFSHORE BASINS.

143

SCHAFFER, C.T., MUDIE, P.J., SMITH, J.N. 1985. CLIMAT ET OBSERVATIONS GEOLOGIQUES. REVUE 1984 DE L'IOB: 6-8.

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SCHAFFER, C.T., TAN, F.C., WILLIAMS, D.F., SMITH, J.N. 1985. LATE GLACIAL TO RECENT STRATIGRAPHY, PALEONTOLOGY, AND SEDIMENTARY PROCESSES: NEWFOUNDLAND CONTINENTAL SLOPE AND RISE. CANADIAN JOURNAL OF EARTH SCIENCES 22(2): 266-282.

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XRD AND SEM ANALYSES OF CLAY-SIZED MINERALOGY IN VIBROCORES FROM HIBERNIA AREA SUGGEST 2 DISTINCT UNITS; AN UPPER SAND AND GRAVEL (QUATERNARY) CHARACTERIZED BY ILLITE, CHLORITE, QUARTZ, FELDSPAR CLAYS FROM NORTHERN CONTINENTAL SOURCES AND A LOWER (TERTIARY) UNIT CHARACTERIZED BY EXPANDABLE CLAYS AND KAOLINITE SUGGESTIVE OF MINERALOGICAL ALTERATION DURING A LONG PERIOD OF SUBAERIAL EXPOSURE PRIOR TO THE LATE PLEISTOCENE EXPOSURE PRIOR TO THE LATE PLEISTOCENE-HOLOCENE MARINE TRANSGRESSION.

147

SIMPKIN, P.G., PARROTT, D.R. 1985. EFFECTS OF SMALL SCALE SEAFLOOR ROUGHNESS ON ACOUSTIC REFLECTIVITY MEASUREMENTS ON THE NEWFOUNDLAND SHELF. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1164. 108P. & 13 SHEETS.

THE EFFECT OF SEAFLOOR ROUGHNESS ON THE SPECTRAL CONTENT OF ECHOES PRODUCED BY A BOOMER PROFILING SYSTEM (THE HUNTEC DTS SYSTEM) ARE EVALUATED. ESTIMATES OF ROUGHNESS USING SHOT TO SHOT COHERENCE AT DISCRETE POSITIONS ARE COMPARED TO ROUGHNESS OBTAINED FROM A SUITE OF BOTTOM PHOTOGRAPHS. MAYER PROVIDES A CRITIQUE OF THE WORK AND SUGGESTIONS FOR FOLLOW UP.

148

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ANNUAL MODULATIONS OF 20% TO 50% IN THE SEDIMENTATION RATE NEAR THE HEAD OF THE SAGUENAY FJORD ARE CAUSED BY ANOMALOUS INPUTS OF COARSE SILTS AND FINE SAND DURING HIGH SPRING RIVER DISCHARGE EVENTS. THE FLUX OF SAND IS AN INDEPENDENT INDICATOR FOR SHORT INTERVALS OF HIGH RIVER DISCHARGE.

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SPARKES, R., DURLING, P. 1985. REPORT OF CRUISE ACTIVITIES, CSS DAWSON 85-037, PHASE 2, OCTOBER 28 - NOVEMBER 4, 1985 [CAPE BRETON SHELF]. BIO CRUISE REPORT 85-037(PHASE 2). 43P.

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150

SRIVASTAVA, S.P. 1985. EVOLUTION OF THE EURASIAN BASIN AND ITS IMPLICATIONS TO THE MOTION OF GREENLAND ALONG NARES STRAIT. IN: GEOPHYSICS OF THE POLAR REGIONS; SELECTED PAPERS FROM THE SYMPOSIUM ON GEOPHYSICS OF THE POLAR REGIONS, I.U.G.G GENERAL ASSEMBLY (18TH : 1983 : HAMBURG, F.R.G.), ED., E.S. HUSEBYE, G.L. JOHNSON, AND Y. KRISTOFFERSEN. TECTONOPHYSICS 114(1/4): 29-53.

NEW MAGNETIC DATA COMPILED WITH EXISTING DATA FOR THE EURASIAN BASIN, LABRADOR SEA, NORWEGIAN-GREENLAND SEA AND THE NORTH ATLANTIC YIELDS A GOOD PLATE KINEMATIC SOLUTION FOR EURASIAN BASIN, CONSISTENT WITH NORTH ATLANTIC EVOLUTION. ONE IMPLICATION OF THE WELL-CONSTRAINED MODEL IS OBLIQUE AND NORMAL COMPONENTS OF MOVEMENT ALONG NARES STRAIT.

151

STOCKMAL, G.S., KEEN, C.E., COLMAN-SADD, S.P., O'BRIEN, S.J., QUINLAN, G. 1985. REGIONAL TECTONIC IMPLICATIONS OF THE LITHOPROBE EAST MARINE DEEP SEISMIC REFLECTION LINE ACROSS THE NORTHERN CANADIAN APPALACHIANS [ABSTRACT]. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS 17(7): 728.

A DISCUSSION OF OTHER ALLOCHTHONOUS NATURE OF TECTONOSTRATIGRAPHIC TERRAINS, OF LITHOSPHERE DELAMINATION AT DEEP CRUSTAL LEVELS, AND OF THE NECESSITY FOR A TEAR FAULT IN THE GULF OF ST. LAWRENCE REGION.

152

SYVITSKI, J.P.M. 1985. SUBAQUEOUS SLOPE FAILURES WITHIN SEISMICALLY ACTIVE ARCTIC FJORDS [ABSTRACT]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.60-63. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

TEN FJORDS WERE EXAMINED TO OBSERVE WHETHER THOSE THAT FELL WITHIN A ZONE OF PROBABILITY OF HIGH GROUND ACCELERATIONS ( $GN > 0.3G$ ) HAD MORE OR DIFFERENT STYLES OF SUBAQUEOUS SLOPE FAILURES THAN THOSE THAT WERE LOCATED IN LOW RISK ZONES ( $GL < 0.08G$ ). DIFFERENCES DO EXIST AND EARTHQUAKE INDUCED FAILURES ARE MORE MASSIVE AND DEEP SEATED THAN SEDIMENTATION INDUCED FAILURES.

153

SYVITSKI, J.P.M. 1985. THE INFLUENCE OF SEA-LEVEL FLUCTUATIONS, DISCHARGE VARIATIONS AND SEA CONDITIONS ON ARCTIC DELTA FORMATION: EXAMPLES FROM BAFFIN ISLAND [ABSTRACT]. IN: ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI. DARTMOUTH, N.S.: THE WORKSHOP]. P.145-149. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

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SYVITSKI, J.P.M., SCHAFER, C.T. 1985. SEDIMENTOLOGY OF ARCTIC FIORDS EXPERIMENT (SAFE): PROJECT INTRODUCTION. ARCTIC 38(4): 264-270.

156

TAYLOR, R.B., FROBEL, D. 1985. BEACH RECONNAISSANCE OF S.E. CAPE BRETON ISLAND IN SUPPORT OF OILSPILL CLEANUP OPERATIONS. IN: THE KURDISTAN OIL SPILL OF MARCH 16-17, 1979: ACTIVITIES AND OBSERVATIONS OF THE BEDFORD INSTITUTE OF OCEANOGRAPHY RESPONSE TEAM, ED., J.H. VANDERMEULEN AND D.E. BUCKLEY. CANADIAN TECHNICAL REPORT OF HYDROGRAPHY AND OCEAN SCIENCES 35: 87-100.

157

TAYLOR, R.B., KELLY, B.J. 1985. BEACH OBSERVATIONS ALONG THE EAST COAST OF CAPE BRETON HIGHLANDS NATIONAL PARK, NOVA SCOTIA. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1119. 33P.

THIS REPORT WAS PREPARED FOR CAPE BRETON HIGHLANDS NATIONAL PARK. IT CONSISTS OF OBSERVATIONS MADE IN 1983 AND 1984 AT INCONISH, BROAD COVE, BLACK BROOK COVE AND NEIL HARBOUR BEACHES. THE REPORT DISCUSSES THE GEOLOGIC HISTORY OF COASTAL DEVELOPMENT FOR THE AREA. THE EFFECTS OF A STORM SURGE IN OCTOBER 1983 AND THE EFFECTS OF MAN ON THE STABILITY OF THE BEACHES ARE STUDIED.

158

TAYLOR, R.B., WITTMANN, S.L., MILNE, M.J., KOBER, S.M. 1985. BEACH MORPHOLOGY AND COASTAL CHANGES AT SELECTED SITES, MAINLAND NOVA SCOTIA. GEOLOGICAL SURVEY OF CANADA PAPER 85-012. 59P.

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TAYLOR, R.B., WITTMANN, S.L., MILNE, M.J., KOBER, S.M. 1985. COASTAL SURVEYS (1981) ALONG MAINLAND NOVA SCOTIA. GEOLOGICAL SURVEY OF CANADA OPEN FILE 976. 76P.

IN 1981, UNDER THE AUSPICES OF THE FEDERAL GOVERNMENT SUMMER CANADA STUDENT EMPLOYMENT PROGRAM, A NETWORK OF SHORELINE SURVEY STATIONS WAS ESTABLISHED AT 16 SHORE BLUFF SITES AND 17 BEACHES ALONG MAINLAND NOVA SCOTIA. THIS OPEN FILE PROVIDES INFORMATION NECESSARY TO RELOCATE AND ACCURATELY RESURVEY THE SHORE STATIONS. THIS REPORT COMPLIMENTS G.S.C. PAPER 85-12.

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THOMAS, F.C., MURNEY, M.G. 1985. TECHNIQUES FOR EXTRACTION OF FORAMINIFERS AND OSTRACODES FROM SEDIMENT SAMPLES. CANADIAN TECHNICAL REPORT OF HYDROGRAPHY AND OCEAN SCIENCES 54. 24P.

THE SIX COMMONLY USED METHODS TO DISAGGREGATE SEDIMENT SAMPLES FOR MICROPALAEONTOLOGICAL ANALYSIS AT THE ATLANTIC GEOSCIENCE CENTRE ARE DESCRIBED AND COMPARED. ALSO INCLUDED ARE A BRIEF SOURCE LIST FOR REQUIRED MATERIALS AND SELECTED REFERENCES DEALING WITH THIS SUBJECT.

161

VANDERMEULEN, J.H., BUCKLEY, D.E. 1985. B.I.O. SPILL RESPONSE. IN: THE KURDISTAN OIL SPILL OF MARCH 16-17, 1979: ACTIVITIES AND OBSERVATIONS OF THE BEDFORD INSTITUTE OF OCEANOGRAPHY RESPONSE TEAM, ED., J.H. VANDERMEULEN AND D.E. BUCKLEY. CANADIAN TECHNICAL REPORT OF HYDROGRAPHY AND OCEAN SCIENCES 35: 19-29.

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VANDERMEULEN, J.H., BUCKLEY, D.E. (EDS.) 1985. THE KURDISTAN OIL SPILL OF MARCH 16-17, 1979: ACTIVITIES AND OBSERVATIONS OF THE BEDFORD INSTITUTE OF OCEANOGRAPHY RESPONSE TEAM. CANADIAN TECHNICAL REPORT OF HYDROGRAPHY AND OCEAN SCIENCES 35. 190P.

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VILKS, G. 1985. PALEOCLIMATIC MODELS FROM FOSSIL RECORDS. BIO REVIEW '84: 9-12.

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VILKS, G.M. (COMP.), SYVITSKI, J.P.M. (COMP.) 1985. ARCTIC LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF OCEANOGRAPHY, DARTMOUTH, N.S.). [DARTMOUTH, N.S.: THE WORKSHOP]. 237P. (GEOLOGICAL SURVEY OF CANADA OPEN FILE 1223)

THE 14TH ARCTIC WORKSHOP WAS FOCUSED ON THE THEME ARCTIC LAND-SEA INTERACTIONS TO REFLECT RESEARCH ACTIVITY IN THE ARCTIC NEARSHORE ZONE. THE 237 PAGE VOLUME INCLUDES 90 EXTENDED ABSTRACTS (UP TO 5 PAGES) PROVIDING A FORMAT FOR REFERENCES AND DIAGRAMS.

167

W.B. BARRIE AND ASSOCIATES, TAYLOR, R.B. 1985. COASTAL GEOMORPHOLOGY AND PROCESSES, NORTHWESTERN BATHURST ISLAND GROUP, NWT. GEOLOGICAL SURVEY OF CANADA OPEN FILE 1146. 106 P. PLUS 2 MAPS.

A SET OF COASTAL GEOLOGY MAPS (125,000) SUMMARIZING THE PHYSICAL SHORELINE CHARACTERISTICS OF THE NORTHWESTERN BATHURST ISLAND GROUP WAS COMPLETED IN 1982, UNDER THE DIRECTION OF R.B. TAYLOR, A.G.C. THE MAPS WERE PREPARED FOR THE STRATEGIC STUDIES BRANCH OF TRANSPORT CANADA. THERE ARE TWO MAPS. MAP 1 COASTAL GEOMORPHOLOGY ILLUSTRATES THE MAIN COASTAL UNITS, A CODED SUMMARY OF THEIR PHYSICAL CHARACTERISTICS AND REPLICATE SHORE TYPES. MAP 2 - COASTAL PROCESSES AND BATHYMETRY.

168

WEBER, J.R., JACKSON, H.R. 1985. CESAR BATHYMETRY. IN: INITIAL GEOLOGICAL REPORT ON CESAR - THE CANADIAN EXPEDITION TO STUDY THE ALPHA RIDGE, ARCTIC OCEAN, ED., H.R. JACKSON, P.J. MUDIE, AND S.M. BLASCO. GEOLOGICAL SURVEY OF CANADA PAPER 84-22: 15-17.

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BOEHNER, R.C. (EDS.) 1985. LEXICON OF CANADIAN STRATIGRAPHY, VOLUME VI:  
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THE LEXICON DEFINES AND DELINEATES THE LITHOSTRATIGRAPHIC UNITS OF NEW  
BRUNSWICK, NEWFOUNDLAND AND LABRADOR, NOVA SCOTIA, PRINCE EDWARD ISLAND AND  
OFFSHORE EASTERN CANADA.

170

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43-51.

TRENDS IN FORAMINIFERAL DIVERSITY ON THE SHELF OFF NOVA SCOTIA ARE CORRELATED  
TO VARIOUS ASPECTS OF THE MARINE ENVIRONMENT, INCLUDING WATERMASS TYPE AND  
PHYSICAL NATURE OF THE SUBSTRATE. WARM, SALINE WATERS OF THE CENTRAL BASINS  
(LAHAVE, EMERALD) SUPPORT A HIGHLY DIVERSE AND EQUITABLE POPULATION, WHEN  
COMPARED TO THE LOWER DIVERSITY OF THE AREA TO THE NORTHEAST (WHICH UNDERLIES  
COLDER LESS SALINE WATERS OF LABRADOR CURRENT ORIGIN).

171

WINTERS, G.V., SYVITSKI, J.P.M., MAILLET, L. 1985. DISTRIBUTION AND DYNAMICS OF  
SUSPENDED PARTICULATE MATTER IN BAFFIN ISLAND FJORDS [ABSTRACT]. IN: ARCTIC  
LAND-SEA INTERACTION; ARCTIC WORKSHOP (14TH : 1985 : BEDFORD INSTITUTE OF  
OCEANOGRAPHY, DARTMOUTH, N.S.), [COMP., G.M. VILKS AND J.P.M. SYVITSKI.  
DARTMOUTH, N.S.: THE WORKSHOP]. P.73-77. (GEOLOGICAL SURVEY OF CANADA OPEN  
FILE 1223)

AN ASSESSMENT OF THE DISTRIBUTION AND DYNAMICS OF SUSPENDED PARTICULATE MATTER  
(SPM) IN 10 BAFFIN ISLAND FJORDS (BASED ON DATA WHICH WERE COLLECTED IN 1982,  
1983 AND 1985) INDICATES THAT THE DISTRIBUTION OF PLANKTON, BIOGENIC DEBRIS  
AND MINERALOGICALLY UNIQUE SPM RELATES TO FJORD CIRCULATION AND REFLECTS THE  
OCCURRENCE OF SEICHE EVENTS AND DEEPWATER RENEWAL EVENTS.

172

WOODSIDE, J.M. 1985. 'SHUFFLE' TECTONICS AT CONVERGENT MARGINS: MODERN  
EXAMPLE FROM THE MEDITERRANEAN [ABSTRACT]. IN: TECTONIC MODELS FOR THE  
EVOLUTION OF THE APPALACHIAN REGION; ABSTRACTS, ATLANTIC GEOSCIENCE SOCIETY  
1985 SYMPOSIUM. MARITIME SEDIMENTS AND ATLANTIC GEOLOGY: 43-44.

LARGE SCALE TRANSLATION OF DETACHED PIECES OF COLLIDING PLATES OCCURS NORMAL  
TO THE DIRECTION OF THEIR CONVERGENCE. MAJOR SHEAR ZONES, SUCH AS THE MEDINA  
WRENCH ZONE IN THE MEDITERRANEAN, DEFINE THE GENERAL DIRECTION OF MOVEMENT.  
THIS MUST BE A DOMINANT FORM OF DEFORMATION BETWEEN ANY NON-PARALLEL SECTIONS  
OF CONVERGENT MARGINS.

## Author Index

## Key to Abbreviations in the Affiliations found in this Index

ADMIN	Administration (Subdivision of AGC)
AGC	Atlantic Geoscience Centre
AOL	Atlantic Oceanographic Laboratory
BIO	Bedford Institute of Oceanography
CCIW	Canada Centre for Inland Waters
CHS	Canadian Hydrographic Service
DEMRR	Department of Energy, Mines and Resources
DSDP	Deep Sea Drilling Project
EMG	Environmental Marine Geology (Subdivision of AGC)
EPB	Earth Physics Branch (merged with GSC effective 1 April 86)
EPG	Eastern Petroleum Geology (Subdivision of AGC)
F&O	Department of Fisheries and Oceans
GSC	Geological Survey of Canada
HYD	Canadian Hydrographic Service
IF	Institute Facilities
INRS	Institut National de la Recherche Scientifique
ISPG	Institute of Sedimentary and Petroleum Geology
MEL	Marine Ecology Laboratory
MIT	Massachusetts Institute of Technology
NOAA	National Oceanographic and Atmospheric Administration
NSRF	Nova Scotia Research Foundation
OSS	Ocean Science and Surveys
PSS	Program Support (Subdivision of AGC)
RR	Regional Reconnaissance (Subdivision of AGC)
UBC	University of British Columbia
USGS	United States Geological Survey
WHOI	Woods Hole Oceanographic Institute

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LANCASTERUK

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For publications relevant to the projects published before 1985, refer to:

Fricker, A., Samson, A. 1986. Bibliography of Publications by Staff of the Atlantic Geoscience Centre to December 1984. Canadian Data Report of Hydrography and Ocean Sciences No. 48.

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