## CANADA

### DEPARTMENT OF ENERGY, MINES AND RESOURCES

GEOLOGICAL SURVEY OF CANADA

# CATALOGUE OF SCIENTIFIC PROJECTS

## 1985-1986



OTTAWA 1985

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Compiled by M.A. Petre

OTTAWA 1985

#### PREFACE

This catalogue of all scientific projects of the Geological Survey of Canada approved as of August 1985 has been compiled by M.A. Petre of the Geological Survey Program Office. It is arranged to indicate: 1) the total scientific program of the Survey for the period I April, 1985 to 31 March, 1986, and 2) the field program for the summer of 1985.

As a catalogue it lists and briefly describes all scientific projects. These total 545 (20 inactive) and are compiled from project annual instructions (GSC 229). Thus it comprises the current authority on such matters as project numbers, titles and objectives and supersedes previous catalogues and documents concerning scientific projects. Projects are listed in numerical order and an index by project leader and by province is provided at the end.

All projects are classified in the Program/Activity structure now in use throughout the Department, this classification appearing in the column "Departmental Classification". Details of this classification follow this preface.

The <u>field program</u> for the summer of 1985 comprises the field component of those active projects marked by an asterisk after the project number. These total 268. No distinction has been made between a minor field component, such as a few days, and a major component requiring the entire field season.

D.G. Benson Chief Program Officer

Ottawa 1985

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#### GEOLOGICAL SURVEY OF CANADA

#### ORGANIZATION

#### Office of the Director-General

R.A. Price, Director-General (995-4208) J.G. Fyles, Chief Geologist (995-4249) D.G. Benson, Chief Program Officer (995-4122)

Atlantic Geoscience Centre, Dartmouth, N.S., A/Director – D.A. Ross (902)426-2367) Eastern Petroleum Geology Subdivision, J.S. Bell (426-6759) Environmental Marine Geology Subdivision, D. Piper (426-7730) Regional Reconnaissance Subdivision, C.E. Keen (426-3413) Program Support Subdivision, K.S. Manchester (426-3411)

Cordilleran Geology Division, Director – R.B. Campbell (604)544-0529) Marine Geology, R.G. Currie (604)656-8419

Economic Geology and Mineralogy Division, Director – D.C. Findlay (995-4093) Economic Geology Subdivision Mineralogy and Chemistry Subdivision, A.G. Plant (995-4686)

Geological Information Division, Director – R.G. Blackadar (995–4089)

Institute of Sedimentary and Petroleum Geology, Calgary, Alberta, Director – W.W. Nassichuk (403)284–0110) Coal Geology Subdivision, G.G. Smith (284–0110) Information Subdivision, N.C. Ollerenshaw (284–0110) Paleontology Subdivision, A.C. Higgins (284–0110) Petroleum Geology Subdivision, R.W. MacQueen (284–0110) Regional Geology Subdivision, D.G. Cook (284–0110) Petroleum Resource Appraisal Secretariat, R.M. Proctor (284–0110)

Precambrian Geology Division, Director – J.C. McGlynn (995-4314) Bear-Slave Section, M.B. Lambert (995-4737) Geochronology Section, O. van Breemen (995-4354) Northern Churchill, A.N. LeCheminant (995-4850) Paleomagnetic Section, W.H. Fahrig (995-4483) Petrology Section, K.L. Currie (995-4972) Superior-Grenville Section, A. Davidson (995-4793)

Resource Geophysics and Geochemistry Division, Director – A.G. Darnley (995-4909) Regional Geophysics Subdivision, P.J. Hood (995-4913) Resource Geochemistry Subdivision, E.H.W. Hornbrook (995-4521) Resource Geophysics, K.A. Richardson (996-2323)

Terrain Sciences Division, Director – J.S. Scott (995-4938) Geomorphic Processes and Engineering Geology Section, J.A. Heginbottom (993-6083) Paleoecology and Geochronology Section, W. Blake (995-4583) Regional Projects Section, R.J. Fulton, Head, (Western) (993-6094); D.A. St. Onge, Head, (Eastern) (993-6085) Sedimentology and Mineral Tracing Section, W.W. Shilts (995-4523)

#### DEPARTMENT OF ENERGY, MINES AND RESOURCES PROGRAM ACTIVITY STRUCTURE

#### I ADMINISTRATION PROGRAM

#### ACTIVITIES

#### SUB-ACTIVITIES

- .I Corporate Management
- .2 Common Services

#### 2 MINERAL & EARTH SCIENCES PROGRAM

- . I Mineral Development
- .2 Administration of the Canada Explosives Act
- .3 Minerals Technology
- .4 Energy Technology
- .5 Geological Surveys
- .l Cordilleran Geology
  - .l Cordilleran Regional Geology
  - •2 Pacific Marine Geology
  - .0 General
- .2 Sedimentary & Petroleum Geology
  - .I Sedimentary Regional Geology
    - .2 Paleontology
    - .3 Petroleum Geology
    - .4 Coal Geology
    - .5 Sedimentary Geology Information
    - .6 Petroleum Resources Appraisal Secretariat
  - .0 General
- .3 Precambrian Geology
  - .l Precambrian Regional Geology
  - .2 Precambrian Laboratory Geology
  - .0 General
- .4 Atlantic Geoscience
  - .I Atlantic Regional Geology
  - .2 Environmental Marine Geology
  - .3 Eastern Petroleum Geology
  - .4 Marine Geoscience Technology
  - .0 General
- .5 Terrain Sciences
  - .I Regional Terrain Geology
  - .2 Terrain Use Geology
  - .0 General
- .6 Economic Geology and Mineralogy
  - .I Economic Geology
  - .2 Mineralogy and Chemistry
  - .0 General
- .7 Resource Geophysics & Geochemistry
  - .I Regional Geophysics
  - .2 Resource Geochemistry
  - .3 Resource Geophysics
  - .0 General
- .8 Geological Information
- .9 Activity Management & Support

- .6 Earth Physics
- .7 Polar Continental Shelf
- .8 Remote Sensing Service
- .9 Surveying and Mapping
- .10 Minerals & Earth Sciences Public Information
- .11 Program Management and Support

#### DIRECTOR GENERAL'S OFFICE - DGO

SP **Special Projects** 

#### ATLANTIC GEOSCIENCE CENTRE - AGC

- EPG -Eastern Petroleum Geology Subdivision
  - CG -Coal Geology
  - -Labrador-Baffin Group LBG
  - PBG -Paleozoic Basin Group
  - -Scotian Grand Banks Margin Group SGBM
- Environmental Marine Geology Subdivision EMG --Geochemistry G Ρ -Paleoecoloay
  - SG -Sedimentary Geology
- RR Regional Reconnaissance Subdivision
  - EAOG -Eastern Arctic Offshore Geology
  - GPS -Geophysical Surveys
  - OBM -Ocean Basins and Margins
  - -Surficial and Bedrock Geology SBG
- PS Program Support Subdivision \_

#### CORDILLERAN GEOLOGY DIVISION - C

- CMG -Cordilleran Mainland Geology
- PMG -Pacific Margin Geology
- ECONOMIC GEOLOGY AND MINERALOGY DIVISION EGM
  - Economic Geology Subdivision EG
    - MAG -Mathematical Applications in Geology
    - MDG -Mineral Deposits Geology
      - **MRIS** -Mineral Resource Information Services
      - -Regional Metallogenic Studies RMS
      - RMRA -Regional Mineral Resource Assessment
  - MC Mineralogy & Chemistry Subdivision -----Analytical Chemistry AC MIN -Mineralogy

INSTITUTE OF SEDIMENTARY AND PETROLEUM GEOLOGY - ISPG

- CG **Coal Geology Subdivision** \_ CG -Coal Geology
  - CT -Coal Technology
  - -Resource Evaluation RE
- PG Petroleum Geology Subdivision GC -Geochemistry
  - PR -Petroleum Resources

- Ρ Paleontology Subdivision
  - MaP -Macropaleontology
    - MiP -Micropaleontology
    - OP -Ottawa Paleontology
- RG Regional Geology Subdivision
  - AI -Arctic Islands
  - CTS -Curation and Technical Services
  - Μ -Mainland
- PRAS -Petroleum Resource Appraisal Secretariat

#### PRECAMBRIAN GEOLOGY DIVISION - P

- -Bear Slave
- G -Geochronology
- NC -Northern Churchill
- PET -Petrology
- PMaa -Paleomaanetic
- -Superior Grenville SG SP
  - -Special Projects

#### RESOURCE GEOPHYSICS AND GEOCHEMISTRY - RGG

- **Regional Geophysics Subdivision** \_
  - AI -Aeromagnetic Interpretation
    - CS -Contract Surveys
  - EAO -Experimental Airborne Operations
  - -Geophysical Data Processing GDP
  - -Ocean Aeromagnetic ΟA
- RGC **Resource Geochemistry Subdivision** \_
  - AL -Analytical Laboratories
  - ER -Exploration Research
  - -Regional Research RR
  - -Standards & Data Services SDS
- RGP \_ **Resource Geophysics Subdivision** 
  - -Borehole Geophysics BG
  - IRD -Instrumentation R&D
  - RG -Radiation Geophysics
  - TG -Terrain Geophysics

#### **TERRAIN SCIENCES DIVISION – TS**

- GPEG -Geomorphic Processes and Engineering Geology
- PG Paleoecology and Geochronology
- **Regional Projects** RP \_
- Sedimentology and Mineral Tracing SMT
- SP Special Projects

RG

BS

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
380077 (2562)	Analysis of rocks and minerals by established methods	Lachance, GR	EGM	MC	AC	-
	Obj: To provide the scientific staff of the using the established methods of the s	Branch, and others on occ Section, in support of Bran	casion, wi ch scient	th compreh ific projects	ensive com s.	npositional analyses
400006* (2562)	Preparation of collections of Canadian rocks and minerals for distribution to the public	Larose, JM	EGM	MC	Min	Nfld <u>NS</u> NB Que Ont
	Obj: To make available for distribution to of Canadian rocks and minerals that	educational institutions a will assist prospectors and	ind the C promote	anadian pub interest in 1	lic represe the minera	entative collections l industry.
500029 (2522) (2512) (2543)	ldentification and biostrati- graphic interpretation of referred fossils	Bamber, EW	ISPG C AGC	P MG EPG	-	NS Nfld NB Yk Mack BC Alta Pacific Offshore
	of Nobic A watt ABLescribe in and biostratigraphy of Canada.	nportant fossils from these	Survey of to correl collection	Canada, me ation of the ons to furth	embers of e host rock er knowled	other organizations is and to the dating dge of paleontology
	NTS: 95 B,C; 12 D; 103 G; 82 E,K; 83 C; 93	3 [				
550101* (2562)	rocks and meteorites	Herd, RK	EGM	MC	Min	-
	Obj: To develop, foster and curate refer activities and in the national interest		rals, rocł	es, and met	eorites in	support of Branch
570029* (256)	Geology and appraisal of metalliferous sedimentary iron and manganese resources	Gross, GA	EGM	-	-	Nfld Que NB Ont
	Obj: To provide comprehensive geologic related metalliferous sedimentary abundance in Canada to facilitatio understanding to quality specificatio context.	deposits to determine the exploration, land-use p	eir geola planning	gical distri and policy	bution, or formation	∙igin and∙potential n, and to provide
	N <sup>-</sup> S: <u>21 P; 23; 52 A</u>					
570148	Radiocarbon dating program	Blake, W Jr	TS	-	PG	-
(2551)	Obj: To plan and co-ordinate the radiocar	bon dating program of the	Geologic	al Survey.		
580175* (2572)	Analytical services and development in geochemistry	Hall, GEM	RGG	RGC	AL	-
	Obj: To provide for the present and future	e analytical service require	ments of	the Resour	ce Geocher	mistry Subdivision.
590457 (2551)	Radiocarbon laboratory development and operation	McNeely, RN	TS	-	PG	Ont
	<ul> <li>Obj: 1. To determine the age of carbond improving precision of existing te</li> <li>2. To conduct research on variation to age determinations on fossil m</li> </ul>	chniques; and to keep abre as in the radiocarbon conte	ast of cu	rrent resear	ch on new	techniques.
	NTS: 31 G				0.5	
610007 (2524)	Operation Porcupine	Norris, DK	ISPG	CG	CG	Mack Yk
(2324)	Obj: Critical evaluation of the structur. Territory and western District of Ma deformation and its bearing on the hy	ackenzie for the document vdrocarbon and mineral pot	ation of	the nature,	origin, an	ot northern Yukon d mechanics of the
	NTS: 106 E,F,K,L, <u>M</u> ,N; 116 F,G,H,I,J,K,N,	0 <b>,</b> P				

<sup>\*</sup> in first column indicates project has a field component

in first column indicates project is inactive

() bracketed number in first column indicates departmental classification
Brackets indicate seasonal employee or other non-staff
Underscoring indicates province of 1985-86 field work

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
610019* (2522)	Ordovician and Silurian Biostratigraphy of British Columbia, Alberta, Manitoba Yukon, Mackenzie & Franklin	Norford, BS	ISPG	þ	MaP	Frank Mack Yk <u>BC</u> Alta
	Obj: Establishment of sequence of bioch provide necessary time control for and western Canada.	ronological zones for Ordovi exploration of natural resou	cian and rces of C	Silurian tim Irdovician a	e. Such se nd Siluriar	equence of zones to rocks in northern
	NTS: 36; 37; 47-49; 54; 57-59; 67-69; <u>82</u>	<u>J;</u> 83; 85; 94; 95; 96; 97; 104	1,P; 105	; 106; 116,	117; 120; 3	340
610269 (2524)	Petrographic examination of coking coals from the Kootenay Group, Alberta and British Columbia	Cameron, AR	ISPG	CG	СТ	Alta 'BC
	Obj: To determine the coking properties studies, of coals of the Kootenay Gr NTS: 82 G,J,O	s, and to prepare seam profi roup.	iles for c	orrelation a	nd environ	ment of deposition
620018 (2561) <b>C</b>	Geological Survey of URRENT%INFORMATION	Leech, GB	EGM	CG	-	BC
	Ob <b>NOT</b> et <b>AViAI bABleE</b> pret the stra NTS: 82 J W <sup>1</sup> / <sub>2</sub>	tigraphic structural and eco	nomic ge	ological fea	tures of th	e region.
620308	Electron beam microanalysis	Plant, AG	EGM	MC	Min	-
(2562)	Obj: To conduct studies of geological electron microscopy, in support of E		s of elec	tron probe	microana	llysis and scanning
630016*	Coast Mountains project	Roddick, JA	С	-	CMG	BC
(2511)	Obj: A geological reconnaissance of the a scale of 1 inch equals 4 miles. Th of the Coast Crystalline Belt and plutonic rocks in such orogenic belt.	e investigation is expected t I to develop an understandi	o reveal	the main ev	ents in the	e geological history
	NTS: <u>92</u> F,G,H, <u>J</u> ,K,L,M,N; 93 D; 102 P; 1	03 A,G, I W½, J,N,P, W½				
640048* (2562)	Study of mineral collecting areas of interest to collectors and tourists	Stenson, Mrs AP	EGM	MC	Min	Que <u>Ont</u> <u>Man</u>
	Obj: To meet the needs of mineralogist accessibility, location, and nature o			d foreign vi	sitors for	information on the
640402 (2561)	Certification of bedded and non-bedded mineral deposits	Findlay, DC	EGM	EG	-	-
	Obj: To act on behalf of the Director- bedded or non-bedded for income to		Survey in	the certifi	cation of	mineral deposits as
650003* (2521)	Cornwallis and adjacent smaller islands	Thorsteinsson, R	ISPG	RG	Al	Frank
	Obj: 1. To improve the understanding of with a view of helping. 2. Assess the size, grade, mode of occur.		,			
	<ol> <li>Improve the knowledge and un Cornwallis Island, thus aiding in and thereby contributing to No.</li> </ol>	n the establishment of a mo	ology of pre useful	Silurian an stratigrapi	d Devonic hic framev	n ostracoderms of vork for the region
	NTS: <u>58 F,G; 68 E,H; 59 B</u>					
650007* (2571)	Ocean aeromagnetics	Bower, ME	RGG	RG	OA	Arctic Offshore
	<ul> <li>Obj: 1. To delineate sedimentary basins</li> <li>2. To investigate the validity of spreading and continental drift.</li> <li>3. To obtain aeromagnetic data to</li> <li>4. To contribute to the developmentary</li> </ul>	theories postulating the m support the compilation of t	agnetic i the Magne	mprinting c etic Anomal	of oceanic	

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
650013 (2551)	Quaternary geology, Aishihik Lake	Hughes, OL	TS	-	RP	Yk		
Obj: To map and explain the Quaternary geology and geomorphology of Aishihik Lake area w to the nature and distribution of surficial materials and Quaternary stratigraphy a l) improve knowledge of the glacial history of southwestern Yukon; and 2) provide area for land use planning and engineering development.						istory in order to		
	NTS: 115 H; Pts 106 D,E; 115 A,B,G,1							
650023	Operation Bow-Athabasca	Price, RA,	DGO	-	-	BC Alta		
(250)	Obj: To complete the systematic reconn information on the character, struct and other geological data that are n of oil, gas, coal and other mineral d	eture, distribution, age, stro required to evaluate the min	atigraphic neral pote	relationshi	ps, and ori	gin of the bedrock		
	NTS: 83 C,D, E½; 82 J,E½,N E½, O, W½							
650024* (2522)	Cambrian biostratigraphy of the Canadian Cordillera	Fritz, WH	ISPG	Р	OP	<u>Mack</u> <u>Yk</u> <u>BC</u>		
	Obj: To describe and assess biochronolog Cambrian strata.	gical significance of Cambri	ian trilobi	tes in order	to refine	methods for dating		
	NTS: <u>106 B;</u> 94 C-F; 116 B,C; <u>82 K,N</u>							
650027*	Quaternary of southern Alberta	Stalker, AM	TS	RP		Alta Sask		
(2551)	Obj: To gain knowledge of Quaternary Stratigraphy, chronology, environments and climates in southern Alberta.							
	NTS: <u>72;</u> 73; <u>82;</u> 83							
650056* (2561)	Geology of lead and zinc resources in Canada	Sangster, DF	EGM	EG	MDG	<u>Nfld NS NB</u> Que Ont <u>Yk</u> Frank Kee Mack		
	Ob <sup>:</sup> : To carry out comprehensive resear geologically based estimates of Ca advice to government for mineral p	nada's mineral resources; 2)	nd zinc re provide g	esources in o guidelines fo	order to: 1) or their di	support or provide		
	NTS: 12 B,H,I,P; 11 G,J; 22 B,H; 48 B,C;	68 H; 95 D; 94 F; 105 L; 104	+ O; 85 B					
660006 <sup>-</sup> (2531)	Granite studies in the Ennadai–Rankin Inlet region	Davidson, A	Ρ	-	SG	Kee		
	Obj: To classify the granitic rocks acc where available and to relate this c	ording to age, geological a lassification to the regional	nd chemi geology (	cal naturè, Ind mineral	using geop deposits.	hysical parameters		
	NTS: 55 E,F,K,L; 65 H,I							
660009 <sup>-</sup> (2531)	East Arm of Great Slave Lake, District of Mackenzie	Hoffman, PF	Ρ	-	BS	Mack		
	Obj: To refine existing stratigraphic determine source regions and dispe and reconstruct the Paleogeographi	rsal patterns in the sedime	ntary fill;					
	NTS: 75 E,L,K; 85 H,I							
670002	Operation Bylot	Jackson, GD	Р	-	NC	Frank		
(253)	Obj: To provide a reconnaissance geolo broad geological framework and ou	ogical survey of a previous tline areas of potential econ	aly unmap nomic inte	ped area ar rest.	nd describe	e and interpret the		
	NTS: 27; 37; 38; 47; 48							
670016 (2521)	S.W. Ellesmere – W. Devon Islands (Operation Grinnell)	Morrow, DW	ISPG	RG	AI	Frank		
	Obj: To improve the understanding of the in both of these fields; a primar petroleum and base metals – of this	y purpose is to aid in evo	e of the re aluation o	egion, which of the reso	n is a key a urce poten	rea for information itial — particularly		

NTS: 59 A,B

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
670576* (2522)	Canadian Triassic Ammonoidea and Bivalvia	Tozer, ET	ISPG	Ρ	OP	Yk BC Alta
	Obj: To describe and assess biochronological significance of Triassic Ammonoidea and Bivalvia in order to a methods for dating Triassic rocks.					
	NTS: 94 B,K,N; 106 D; 116 B,C; 92 O; 93 C	); <u>103 C,F,G</u>				
680012 <sup>-</sup> (253)	Paleomagnetic study of Proterozoic red beds of the western Canadian Shield	McGlynn, JC	Ρ	-	-	Sask Kee
	Obj: To obtain paleomagnetic pole positi Shield for purposes of correlation.	ons from various Proteroz	oic red be	ed sequence	s in the wo	estern Precambrian
	NTS: 75 E,F; 74; 85; 86; 65; 66					
680017 (2552)	Sedimentology-engineering geology laboratory development and operation	Dilabio, RNW	TS	-	SMT	-
	Obj: To standardize, develop, and/or br geoscientist; to develop new technic laboratories.					
680023* (2562)	X-ray diffraction analyses and mineralogical studies	Harris, DC	EGM	MC	Min	Ont
	Obj: To provide X-ray diffraction analyse	s and mineralogical studies	in suppoi	rt of Branch	n projects.	
	NTS: <u>42 D</u>					
680027 (2551)	Surficial geology, Tawatinaw area Alberta	Richard, SH	TS	-	RP	Alta
	Obj: To map, describe and explain the u central Alberta in order to provide urban and industrial development, fo of the region.	geology and terrain inform	nation pe	rtinent to l	and use pla	anning, agriculture,
	NTS: 83 1					
680031 (2551)	Quaternary stratigraphy of Old Crow Basin and Porcupine River Valleys	Hughes, OL	TS	-	RP	Yk Mack
	Obj: Through investigation of Quaternary Quaternary stratigraphy and history paleontology and archeology studies	of the region and to provi	de a geol			
	NTS: 106 E,F; 115 P; 116 I, N E½, O,P; 117	7 A				
680047* (2552)	Geomorphic processes, Mackenzie Valley-Arctic Coast	Heginbottom, JA	TS	-	GPEG	Mack
	Obj: To investigate the processes involve order to understand better the proce	esses associated with the po	ost and g ast growth	round ice ur 1 of permafi	nder preser rost in nort	nt day conditions, in thern Canada.
	NTS: 96 B-F; 106 E,F,I,P; 116 I,N,P; Pts 9	7 B-F; 107 A-E; 117 A,D				
680060* (2561)	Geology of silver and gold deposits in Canada	Thorpe, RI	EGM	EG	MDG	Ont Que Mack BC
	Obj: To carry out comprehensive research l. support or provide geologically b 2. provide guidelines for their disco 3. provide advice to government for	ased estimates of Canada's very;	mineral	resources;	rder to:	
	NTS: <u>32</u> C, <u>D,E</u> ; <u>42</u> A,B,C,D,E; 41 P; <u>76 D</u> ,	E; 86 H; 103 F,G; <u>53 B; 11</u>	D; <u>21 A</u>			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
680064* (2521)	Stratigraphy and Paleontology of Upper Paleozoic rocks on parts of Ellesmere, Melville and Axel Heiberg Islands	Nassichuck, WW	ISPG	Ρ	MaP	<u>Frank</u>
	<ul> <li>Obj: 1. To improve the understanding o Sverdrup Basin;</li> <li>2. to establish a biostratigraphic fr</li> <li>3. to evaluate the economic potent</li> </ul>	amework for Carboniferous				d axial parts of the
	NTS: 49 B,C,F,G,H; 340 A,B,C,D; 560 A;	<u>78 G;</u> 79 B; 89 A; 88 H				
680066 (2511)	Geology of the Cariboo Mountains, British Columbia	Campbell, RB	С	-	CMg	BC
	CURRENTOTREORMATION f 2NOTtuAVAILABLEd report of NTS: 83 D; 93 A,H		nal repor	ts of Ques	nel Lake	(93 A) and Canoe
680071	Alkaline rocks in Canada	Currie, KL	Ρ	-	PET	-
(2531)	Obj: To identify and examine occurrence of emplacement and economic poter	es of alkaline rocks in Cana ntial.	da, and to	o explain th	eir origin,	development mode
680081* (2571)	High resolution aeromagnetics (experimental surveys)	Olson, DG	RGG	RG	EAO	<u>Ont Que</u> Man BC
	Obj: To execute, according to presc gradiometer surveys, over areas self the GSC aeromagnetic system in dif	ected and defined by manag	resoluti ement, a	on experir s a means o	nental aer of testing ti	romagnetic and/or he effectiveness of
	NTS: <u>31 F,D; 41 A,H; 40 G,I,J; 32; 33; 42;</u>	43				
680090 (2523)	ldentification of unknown minerals and elemental analysis of sedimentary rocks by X-ray analysis and chemical techniques	Foscolos, AE	ISPG	PG	GC	-
	Obj: Quantitative and semiquantitative elements submitted by GSC staff, u					clays, minerals and
680091 (2523)	Clay and clay minerals investigation	Foscolos, AE	ISPG	PG	GC	-
	Obj: To improve and develop techniques to develop better techniques for minerals in sedimentary rocks and minerals. These studies also deterr oil generating potential; (2) migratic	quantitative, semi-quantita coals; to conduct research nine those parameters that	ntive and h related affect:(	qualitative to the cry l) the degre	e analyses stal lattice se of sedim	of clays and clay structure of clay
680093* (2522)	Upper Silurian and Devonian biostratigraphy western and northern Canada	Pedder, AEH	ISPG	Ρ	MaP	Sask Man Alta BC Yk Frank <u>Mack</u>
	Obj: Elucidation of the sequence of Up Canada so that correlations of stra have, or are expected to have, bi species and other taxonomic cates ecologies.	ta of these ages can be ach ostratigraphic significance.	ieved. D Paleoe	escription of cological a	and illustra nd biogeog	tion of fossils that praphic analyses of
T	NTS: 88 A,B,D; 49 A,B; 59 A; 82 B; 84 J;	<u>85 C</u>				
680101 (2522)	Conodont biostratigraphy of Siluro–Devonian rocks of the Arctic Islands	Uyeno, TT	ISPG	Р	MiP	Frank Kee Que
	Obj: To set up conodont biostratigraphic this framework with zonations base fix time lines in areas where stu determine the thermal maturity of	d on other fossil groups, suc ata undergo complex faci	h as grap es chang	tolites, paly Jes over re	nomorphs o	and brachiopods; to
	NTS: 49: 57: 58: 59: 68: 69: 78: 89: 31 H					

NTS: 49; 57; 58; 59; 68; 69; 78; 89; 31 H

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
680102* (2543)	Rank and petrographic studies of coal and organic matter dispersed in sediments	Hacquebard, PA	AGC	EPG	CG	NB Nfld NS Que PEI
	Obj: To obtain information on loca economic geology, search for oil					application towards
	NTS: 12; 21; 11 F,G,K; 20					
680109 (2543)	Palynological zonation of the Carboniferous and Permian rocks of Altantic Provinces, Gulf of St. Lawrence and Northern Canada	Barss, MS	AGC	EPG	PGB	NS NB Nfld PEl Yk Mack Frank
	Obj: To establish a comprehensive bi reconstruct geological events ar sedimentological and geophysica Carboniferous basins for resource NTS: 11 E; 1; 2; 11; 12; 95	nd ecological environments, I studies, facilitating a dete	assist othe	r discipline	es to carry	out stratigraphic,
680114 (2561)	Development and supervision of mineral deposits data bank	Garson, DF	EGM	EG	MRIS	-
	Obj: To develop files of data on mine the Geological Survey of Cano Department and with a National involved: 1. documentary files of reports,	ida and, as far as it is pr System for storage and retri	actical, co eval of geo	mpatible v logical date	vith relate a. Two mo	ed files within the
	2. computer processable files.					
690005 (2524)	Structural geology of northern Yukon Territory and northwestern District of Mackenzie	Norris, DK	ISPG	CG	CG	Yk Mack
	Obj: Critical evaluation of the struct and adjacent coastal plains for th bearing on the hydrocarbon poter	ne documentation of the natu				
	NTS: 117 A,B,C,D; 107 B,C					
690038 (2561)	Probability models for estimating mineral potential and for geoprocessing	Agterberg, FP	EGM	EG	MAG	-
	Obj: To develop a statistical method specific types of mineral deposit integration and processing of var	ts in geographically-delineate	ed areas an			
690061	Operation Penny Highlands	Jackson, GD	Р	-	NC	Frank
(2531)	Obj: To provide a reconnaissance ge geological framework and outline	e areas of potential economic		ped area a	nd describ	e and interpret the
	NTS: 16 E,K-M; 26 H,P; 27 A,B; 36 P;	37 А,В				
690064* (2551)	Quaternary palynology	Mott, RJ	TS	-	PG	NS NB Que
	Obj: To study the quaternary palyno service to other scientists within and agencies and non-governmen	the Division, Branch, or De	de a biostr partment a	atigraphic s well as of	and paleoe ther Gover	ecologic information nment Departments
	NTS: <u>11 D,E,F,K</u> ,N; 20 P; 21 <u>A,G,H,J</u>					
690065 (2551)	Surficial geology, St. Anthony– Blanc Sablon map–areas, Newfoundland	Grant, DR d	TS	-	RP	Nfld
	Obj: To map, describe, and explain th 1. areal geological information and geochemical mineral exp 2. knowledge of stratigraphy environments including glacio	including data applicable t loration surveys; and and age of Quaternary fe	o land inve eatures and	entory surve	eys, engine	
	NTS: 2 M: 12 P					

NTS: 2 M; 12 P

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
690075* (2512)	Foraminiferal Biostratigraphy of the Pacific Margin	Cameron, BEB	С	-	PMG	BC
()	<ul> <li>Obj: 1. To prepare publications on the Foraminifera of the onshore and of 2. To prepare publications on the ge</li> <li>NTS: 92 B; 103 F,G</li> </ul>	offshore rocks of the Pacif	ic Margin	•		
690090 (2562)	Development of methods for the analysis of geological materials	Lachance, GR	EGM	MC	Min	-
	<ul> <li>Obj: 1. To develop new methods in order Section does not have prescribed constituents for which the Section and/or improve accuracy and/or if</li> <li>2. The objectives outlined in a) m submission of a suite of unusual analytical services component of</li> </ul>	d methods; ii) meet demar on does not have prescribe mprove productivity. ay be oriented towards: samples; ii) providing a c	ids when ad method i) the d	analyses ar Is; iii) exter Inalysis of	e requeste ad the rang a specific	ed for elements or ge of concentration need such as the
690095* (2552)	Properties and provenance of glacial sediments	Shilts, WW	TS	-	SMT	Que Ont Nfld NS NB
	<ul> <li>Obj: 1. To build a data bank comprising a</li> <li>2. To define till provenance regions</li> <li>3. To clarify mechanisms and scale</li> <li>4. To relate regional chemical an problems that can be defined are</li> <li>5. To develop and/or evaluate in thickness, character and properti</li> <li>6. To derive from the record of environmental changes and seism</li> <li>NTS: II E,F; 21 E,G,I,J,L,N,O,P; 22 A,B</li> </ul>	based on data from object of glacial dispersal of rock d petrologic properties of ally. strumentation and field es of glacial sediments. lake bottom sediments	ive I. s, miņera f till to technique	ls and trace engineering s capable	elements. , geomedie of providin	cal, and biological ng information on
700018	Paleomagnetism and rock	Christie, KW	Р	-	PMag	Ont
(2532)	<ul> <li>magnetism instrumentation and technological development</li> <li>Obj: To contribute to the development of 1. by designing, building, testing or properties of rocks and minerals;</li> <li>2. by developing new techniques or samples and for the processing of 3. by improving on the design of exclusionatory and/or the quality of the samples and for the samples and for the samples and for the samples and for the design of exclusionation.</li> </ul>	nd calibrating instrument r systems for the routine r data resulting from such r isting instrumentation or t	ation req measurem neasurem echnique	uired for the ment of mag ments; and s inorder to	netic para	meters of standard
700027* (2521)	Comparative studies of structural prototypes and/or sedimentary environments	Cook, DG	ISPG	RG	-	-
	Obj: The objective is to familiarize the conceptual models of depositional er and to critically evaluate the models	nvironments to enable the	types of participa	observation nts to both	s that ma recognize	y identify specific such environments
700034 <sup>-</sup> (2522)	Devonian biostratigraphy of the northern Yukon Territory and adjacent District of Mackenzie and Alberta	Norris, AW	ISPG	Ρ	MaP	Yk Mack Alta
	<ul> <li>Obj: 1. Delineation of facies distribution</li> <li>2. Identifying and determining rang</li> <li>3. Determining distribution of faund</li> <li>4. Obtaining more information on the boundaries in Canada.</li> <li>NTS: 116 (E 3/4); 117 (Sta); 106 (Wta); 74 Magina</li> </ul>	es of fossils for refining zo al provinces and paleogeog he Upper Silurian/Lower D	nation an raphy of [	d correlatio Devonian sec	35.	
700047	Operation Finlay	Gabrielse, H	С	-	CMG	BC
(2511)	Obj: To establish the stratigraphy, struc as an aid to regional development.			hich the mi		sits may be related
	NTS: 94 C,E,F					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
700056 (2551)	Surficial geology, Cape Breton Island, Nova Scotia	Grant, DR	TS	-	RP	NB NS
	<ul> <li>Obj: To map, describe and explain the sure l. areal geological information will development and mineral explore</li> <li>2. knowledge of the stratigraphy of environments including glaciatio</li> <li>NTS: 11 D,E,F,K,N; 21 A,H</li> </ul>	vith particular reference ation; and and age of Quaternary fea	to the t tures and	needs for of the hist	data requ	
700059* (2561)		Kirkham, RV	EGM	EG	MDG	-
	Obj: To carry out comprehensive researce CURRENTOTINFORMACTIONIC provide guidelines for their disco NOTvi A VALABLErnment for	h on the geology of copper pased estimates of Canada's overy; and r mineral policy and relate	and molyt s mineral r d matters	odenum dep resources;	osits in ore	der to:
700092* (2542)	Surficial geology and geomorphology, Mackenzie Bay — Continental Shelf	Blasco, SM	AGC	EMG	SG	Arctic Offshore
	Continental Shelf Obj: To resolve the stratigraphic and structural relationships of the unconsolidated surficial marine sediments of the Beaufort continental shelf to provide the geological framework necessary for: the delineation of permafrost; the assessment of offshore aggregate supplies; the establishment of engineering design criteria for offshore structures for petroleum exploration and production; the resolution of the Quaternary history of the shelf area; the identification of sedimentary and geomorphic processes operating on the shelf; and to continue development of the technology necessary to conduct surficial marine geological surveys in ice covered areas of the arctic and in shallow coastal waters.					
	NTS: 87; 97; 107; 117					
710020* (2551)	Surficial geology and land classification, Mackenzie Valley Transportation Corridor	Hughes, OL	ΤS	-	RP	<u>Mack</u> Yk
	<ul> <li>Obj: To map, describe and explain the (muskeg) cover of the Mackenzie Vol.</li> <li>I. provide areal knowledge of get terrain information in connecting development, and engineering collected.</li> <li>2. determine the Quaternary historical development (musked)</li> </ul>	alley Transportation Corrid blogy and terrain, bearing on with land use planning, ponstruction; and	br in orde particular	r to: 'ly in mind	the needs	of government for
	NTS: 96 C,D-F; 106 H-K,L,M,N,O,P; 107	A; <u>97 C</u> ; 116 N,O,P				
710022* (2522)	Carboniferous and Permian biostratigraphy and coral faunas, western and northern Canada	Bamber, EW	ISPG	Ρ	MaP	Frank Mack Yk <u>BC</u> <u>Alta</u>
	Obj: Establishment of faunal sequence Alberta, British Columbia, Yukon, in surface and subsurface explorati document the above succession ar organizations.	and District of Mackenzie, on of these areas. Descri	, for use a ption of co	s a biostra oral and oth	tigraphic r ner faunas	from these areas to
	NTS: 49; 59; 69; 78; 79; <u>82 G</u> ,H, <u>J</u> ,M,N, <u>O</u> ;	<u>83</u> B,C,D, <u>E</u> ,F,G; <u>92 I;</u> 93 I,	0;94-95;	103-106; 11	5-117; 34(	0; 560
710023 <sup>-</sup> (2531)	Granite studies in the Slave Province (Phase 1)	Davidson, A	Р	-	SG	Mack
	Obj: To classify the granitic rocks acc where available, and to relate them	ording to age, geological o to the regional geology an	and chemi nd to mine	cal nature, ral deposits	using geo	physical parameters
	NTS: 85 I,P					
710033 (2521)	Northern Basin Analysis Program: Redstone and Great Slave Lake map–areas	Williams, GK	ISPG	RG	Μ	Mack
	Obj: 1. To maintain an up-to-date inv lithologic logs within the Great 2. To provide an improved underst 3. To compile, in a form suitab accumulated.	Slave Lake and Redstone A anding of the geological his	Aap-areas. story of th	e northern	Canadian ı	mainland.
	NTS: 85; 95					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
710059* (2543)	Stratigraphy and sedimentology of the Mesozoic and Tertiary rocks of the Atlantic continental margin	Jansa, LF	AGC	EPG	SGBM	<u>Atlantic</u> Offshore
	Obj: To determine stratigraphy and sedir margin and the basin; delineate of composition, provenance, current pa resource evaluation of this region.	listribution of clastic, co	arbonate,	evaporite	sequences	, their thickness,
710061* (2543)	Compilation of geoscientific data in the Upper Paleozoic basins of southeastern Canada	Howie, RD	AGC	EPG	PBG	NS NB Nfid PEI
	Obj: Compile data for a detailed study of NTS: 1; 2; 10; 11; 12; 14; 20	the petroleum potential of	the Magd	lalen and Sy	dney basin	S.
710065 (2543)	Biostratigraphic zonation (Foraminifera–Ostracoda) of the Mesozoic and Cenozoic rocks of the Atlantic Shelf	Ascoli, P	AGC	EPG	SGBM	Atlantic Offshore
	Obj: To determine the biostratigraphic offshore wells of the Atlantic Shelf accurately reconstruct geological ev region.	, to form the basis of lo	cal, regio	nal and wo	rld wide c	correlation, and to
710091* (2422)	Palynological studies of Mesozoic and Tertiary coal measures in western and northern Canada	Sweet, AR	ISPG	Ρ	MiP	<u>BC</u> Alta Yk
	<ul> <li>Obj: 1. To establish palyno-stratigraphic sedimentological and structural in</li> <li>2. Where applicable to correlate cool</li> <li>3. To describe and classify recovered</li> </ul>	nterpretations of coal basir al seams by means of spore	ns. and polle	n histogram	IS.	
	N IS: 82 B,C; 83 C,E,F; 106 E; 117 A; 104 F	<u>1</u>				
720044 <sup>-</sup> (2522)	Reconnaissance of Mesozoic Foraminifera of Arctic Islands	Wall, JH	ISPG	Ρ	MiP	Frank
	Obj: To assess the assemblage composition in the Arctic Islands in order to bette	on, paleoecology and bioch er define Mesozoic subsurf	ronologica ace and ou	al signifiçar utcrop strat	nce of Meso igraphy.	ozoic Foraminifera
	NTS: 49; 59 E,G,H; 69; 79; 88; 89; 98; 340	В				
720052	Geology of Indin Lake (86 B)	Frith, RA	Р	-	BS	Mack
(2531)	Obj: To revise and interpret to modern through early reconnaissance and ser	standards the geology of ni-detailed mapping.	the Preco	ambrian ter	rane of th	e area known only
	NTS: 86 B					
720056 <sup>-</sup> (2531)	Paleomagnetism of the dykes of west Greenland	Fahrig, WF	Р	-	PMag	-
	Obj: To determine the paleomagnetism of correlation of the rocks of this area	the diabase dyke swarms with those of Baffin Island	of west G and the c	reenland in coast of Lab	order to ex rador.	xamine the possible
720062 (2531)	Volcanic rocks of the Prince Albert Belt	Schau, M	Ρ	-	NC	Frank Kee
	Obj: To determine the structure, stratig relationship to the adjacent gneiss potential of the belt.	raphy and petrology of th es and the enclosed basi	e volcani c and ult	c rocks of rabasic roc	the Prince ks; to evo	Albert Group and aluate the mineral
	NTS: 47 A.D: 56 J.K					

NTS: 47 A,D; 56 J,K

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
720066 (2526)	Evaluation of Canada's petroleum potential	Procter, RM	ISPG	PRAS	-	-
	Obj: To create and maintain an inventory and undiscovered (potential); to pro- methods of predicting size, rate of base in order to assist in the develop	ovide data for the analysis discovery, quality, reserve	s of costs oir charac	s and suppl	y of oil a	nd gas; to develop
72007 * (2573)	Airborne Gamma-Ray Spectrometry (Experimental Surveys)	Hoiman, PB	RGG	RGP	RG	Man <u>NB</u> Ont Que Sask <u>Nf1d NS</u>
	<ul> <li>Obj: 1. Provide acceptable standards for</li> <li>2. Demonstration of suitability of a <ul> <li>conducting orientation surveys</li> <li>conducting reconnaissance survey</li> <li>conducting detailed follow-up</li> </ul> </li> <li>3. Have available the technology or required.</li> </ul>	irborne gamma-ray spectro in advance of U.R.P. contr veys maps. surveys of areas of interest	metry me ract surve located l	ethods in va eys. by URP pro	rious parts gram.	of Canada by:
	NTS: <u>31</u> E, <u>F</u> ,L,M; <u>21 G,H,J,O; 11 E</u> ; 64 H;	74 I,J,K; <u>2 D</u>				
720072* (2522)	Paleozoic ostracodes of Canada	Copeland, MJ	ISPG	Р	OP	Ont Que NB <u>NS</u> Nfld
	Obj: By means of microfaunas and non-tr the Paleozoic sedimentary basins of NTS: <u>11 E</u> ,F,K; 12 B,E,L; 21 <u>A,H</u> ,P; 22 A,E	Canada and thus aid in asse				
720073 (2524)	Petrographic Analysis of Saskatchewan Lignites	Cameron, AR	ISPG	CG	СТ	Sask
	Obj: 1. Petrographic characterization of 2. Determination of vertical and la 3. Relation of petrographic compos	teral changes in petrograph		sition.		
	NTS: 62 E; 72 F,G,H					
720078 (2551)	Diatom analysis and paleoecological studies of Quaternary sediments	Federovich, S	TS	-	PG	Frank Ont
	<ul> <li>Obj: I. To develop diatom analysis as a analyses.</li> <li>2. To provide paleoecological int sediments.</li> </ul>		-		-	
	NTS: 38; 39; 48; 49; 59; 340; 560; 41 I; 31	E				
720080* (2571)	Interpretation of aeromagnetic surveys	Kornik, LJ	RGG	RG	AI	Nfld
	Obj: To express the significance of aeror support of mineral exploration, geol information with other types of geos	ogical mapping and radioac	ithologic tive wast	al structura e disposal p	l and meta programs a	morphic patterns in nd to integrate this
	NTS: <u>12 A</u>					
720081 (2551)	Surficial geology and geomorphology of Central Ellesmere Island	Hodgson, DA	TS	-	RP	Frank
	Obj: To provide an inventory of surfic permafrost conditions, with partic territorial Land Use Regulations activities.	ular reference to terrain	informat	ion pertine	nt to the	implementation of
	NTS: Pts 49 C,D,E,G,H; 340 B					
720084* (2573)	Gamma-Ray Spectrometry (Technique Development)	Grasty, RL	RGG	RGP	RG	Ont
	Obj: To develop improved methods of air NTS: 31 C	borne gamma-ray spectrom	etry data	collection,	, analysis a	nd presentation.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
720098 (2521)	Lower Paleozoic stratigraphy, southern Rocky Mountains	Aitken, JD	ISPG	RG	Μ	BC Alta
	Obj: To determine the nature, thickness, NTS: 82; 83	distribution and origin of La	ower Pale	eozoic forme	ations of th	ne region.
720102 (2550)	Marine Science Atlas of the Beaufort Sea	Pelletier, BR	TS	-	SP	Mack Frank Yk
	Obj: To compile known marine aspects geophysics, etc., in order to present photographs and graphs. This at government on engineering, environm	a marine science atlas of t las will serve the public, nental and resource-develop	he Beauf universi	ort Sea that ities, indust	will inclu	de maps, sketches,
	NTS: 97 C,F,G; 107 A,B,C,D,E; 117 A,B,C	,D				
720103* (2543)	Hydrocarbon inventory of the sedimentary basins of Eastern Canada	Wade, JA	AGC	EPG	SGBM	Atlantic Offshore
	CUERSENCE IN FORMATPOIN GUNGTI AVAILABUE St. Lav	Il appraisal of the potential he Atlantic continental ma vrence and Hudson Platform	oil and g rgin and i 18•	as resources n Baffin Ba	s of the sec y, the Atla	dimentary basins of antic Provinces and
720104* (2543)	Regional subsurface geology of Mesozoic and Cenozoic rocks of the Atlantic continental margin	Wade, JA	AGC	EPG	SGBM	<u>Atlantic</u> Offshore
	Obj: To provide a regional subsurface g basis for: 1. the Departmental Hydrocarbon In 2. to establish a framework for oth plate tectonics, etc.	nventory;		-	-	
	NTS: 21 A,H					
7300 3 (2552)	Quaternary geology inventory – Southern Keewatin	Shilts, WW	TS	-	SMT	Kee
	<ul> <li>Obj: 1. To produce a map of southern k Inlet south to Manitoba and east</li> <li>2. To produce maps for open filing a</li> <li>3. To collect regional samples of fil</li> <li>4. To elucidate the history of the so</li> </ul>	of ~97°00'. at scales of 1:125,000 based 1 to describe its sedimentol outh and central portions of	on 1:250 ogy, geot	,000 NTS sh echnical pro	eets, operties, a	
	NTS: 65 A-C,F-K,N-P; 55 D,E,F,L,K,N,O					
730019* (2551)	Light drilling and sampling research and support	Nixon, FM	TS	-	RP	-
	Obj: To support Section and Division re Geotechnique with emphasis on ligh sampling technique and equipment i co-ordinating systems and procedure	t equipment and remote wo n order to evaluate proposa	rk by (a) Is and su	maintainin ggest possib	g an exper ilities, and	tise in drilling and 1 (b) developing and
730027* (2551)	Late Cenozoic fossil insects and Late Cenozoic paleoecology	Matthews, JV Jr.	TS	-	PG	Ont Que <u>Yk</u>
	Obj: To provide biostratigraphic and pal interpretation of their age and envir		late Cer	nozoic terre	strial sedi	ments as an aid to
	NTS: 21 E,L; 31 G,H,I; <u>115 L; 116 J,K</u>					
730035	Operation St. Elias	Campbell, RB	С	-	CGM	Yk BC
(2511)	Obj: To determine the stratigraphy, stru assess the mineral potential of the c		relationhs	sip of intrus	ive and vol	canic rocks, and to
	NTS: <u>114 P</u> ,0; 115 A-C,F,G					
730037 (2511)	Stratigraphy, structure, and metallogeny of Pelly Mountains, and Yukon Plateau, Yukon Territory	Tempelman-Kluit, DJ	С	-	CGM	Yk
	Obj: To provide information on the relation deposits in Pelly Mountains and adja		aphy, stru	ucture, sedi	mentary f	acies, and mineral
	NTS: 105 A,F,G,H					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
730040 (2531)	Archean volcanic studies in the Bear-Slave Province	Lambert, MB	Ρ	-	BS	Mack		
	<ul> <li>Obj: To determine 1) stratigraphic and structural relations; 2) location of volcanic centres; 3) sequence and types of volcanic eruptions and their environment of deposition; 4) relationship of mineral deposits to volcanic stratigraphy and volcanic processes.</li> <li>NTS: 76 B,C,F,G</li> </ul>							
730042 (2561)	A study of certain accessory elements in Canadian Sulphide assemblages and minerals	Sangster, DF	EGM	EG	MDG	-		
	Obj: To determine the concentration ran sub-ores.	ges and averages of certain	n element	s in selecte	ed Canadia	n Sulphide ores and		
730043 (2531)	Volcanic rocks of the Appalachian region	Bostock, HH	Р	-	BS	NB NS NfId		
	<ul> <li>Obj: To determine the physical volcanology, petrology, chemistry, environment, age and tectonic relations of the volcanic rocks of the Appalachian Orogen in order to relate them to the evolution of the orogen and to the formation of associated mineral deposits.</li> <li>NTS: Pts 2 E/12, 5; 12 H</li> </ul>							
730044* (2531)	Granite studies in the Appalachians	Currie, KL	Ρ	-	PET	NS NfId <u>NB</u>		
	<ul> <li>Obj: 1. To establish a set of criteria based on field, petrographic and chemical observations, by which granitoid rocks in the Appalachian region can be assigned to a limited number of well defined classes;</li> <li>2. to establish the physical conditions of emplacement, fractionation trends, solidification history, and subsequent deformation of each of these classes;</li> <li>3. to relate these classes to the tectonic development of the Appalachian region;</li> <li>4. to evaluate the economic possibilities of each class, and possble factors enhancing these possibilities.</li> </ul>							
	NTS: 2 E; 12 A,H; <u>21 G,H</u>							
730051 (2521)	Completion of reconnaissance geology, northern Ellesmere Island	Trettin, HP	ISPG	RG	Al	Frank		
	Obj: To prepare terminal reports accom compile the Eureka sound sheet (NT	S 340, 560, 120) of the 1:1 r	on at the nillion ge	scale of 1: ological atl	250,000 or as program	more detailed. To 1.		
	NTS: 340 A-F,H; 120 B,C,F,G; 49 H; 560	D,E,F,G,H						
730057 (2521)	Helikian and Hadrynian stratigraphy Eastern Cordillera and Interior Platform	Aitken, JD	ISPG	RG	Μ	Mack Yk		
	Obj: Firstly, to establish a coherent pic and secondly, to emphasize study or deposits.							
	NTS: 95 L,M; 106 A,B,C,F,G,H; 105 P			_				
730062 (2523)	Development of extraction, identification and correlation systems for organic compounds from sedimentary rocks and crude oils	Brooks, PW	ISPG	PG	GC	-		
	Obj: To develop, improve and adapt identification of petroleum source statistical methods to the geochem correlate crude oils into genetic far	rocks and to assist in sour ical data generated in the C	ce rock-a GSC labs (	oil correlation of the correlati	ons. To de tside organ	evelop and/or apply nizations in order to		
730067* (2511)	Geothermal Energy Resources in Canada	Souther, JG	С	-	CMG	BC		
	Obj: To make an inventory of the dis chemistry of their waters. To prov	tribution, nature and geolo ide a base of geological info	ogical se prmation (	tting of ho and expertis	ot springs se for geotl	in Canada and the hermal results.		
	NTS. 92 I							

NTS: 92 J

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
730072 (2541)	Bedrock and surficial geology- Grand Banks	King, LH	AGC	RR	SBG	Atlantic Offshore			
. ,	CURRENT INFORMATION and understanding of the surface and subsurface geology, geologic history, and NTS: 1; 2; 11								
730081 (2541)	East coast Offshore surveys	Macnab, RF	AGC	RR	GPS	Atlantic Offshore			
	<ul> <li>Obj: A detailed, systematic mapping of hydrographic and geophysical parameters on the continental shelf and margin in the Canadian offshore.</li> <li>I. To measure and describe the sea floor topography and the gravity and magnetic fields in the offshore;</li> <li>2. to define the broad patterns of bedrock and sediment composition and distribution;</li> <li>3. to disseminate this information through a variety of media; charts, reports, digital magnetic tape files, publications, etc.</li> </ul>								
740003* (2543)	Geological interpretation of geophysical data as an aid to basin synthesis and hydrocarbon inventory	Grant, AG	AGC	EPG	LBG	<u>Atlantic</u> Offshore			
	Obj: To define the geologic structure a	nd history of the sedimenta	ry basins in	the offshor	re regions	of Eastern Canada.			
	NTS: 1-16; 27; 28; 38; 39								
740017 (2531)	Metamorphism in the Canadian Shield	Fraser, JA	Ρ	-	NC	Que, Ont Man Sask NfId, Mack Frank Kee			
	Obj: To provide suitable maps and stud way as to make a unique contrib regional and local information or resource potential of the Canadiar	ution to the understanding n metamorphic grade and	of the dev	velopment o	of the Shi	eld; and to provide			
740019 (2531)	Archean felsic volcanic complex near Regan Lake, District of Mackenzie, NWT	Lambert, MB	Р	-	BS	Mack			
	<ul> <li>Obj: 1. To map in detail the felsic vola 2. to establish criteria for the id Province;</li> <li>3. to establish a model for the h Slave Province to provide a bas</li> <li>NTS: Pts of 76 B,C,F,G</li> </ul>	entification and interpreta istory, environment and pro	ocesses of	volcanism 1					
740041* (2521)	Comparative studies of geological types	Cook, DG	ISPG	RG	-	-			
	Obj: To examine field occurrences of lo the local geology and the interp communicate the role of the Instit	retation thereof, so that	in order to s general pr	familiarize inciples so	the staff o elucidate	of the Institute with d may inform and			
740042 (2522)	GSC Workshop travel — Micropaleontology Section	McNeil, DH	ISPG	Р	MiP	-			
	Obj: To exchange information on cur microfossils, during workshops of communication between the specie	GSC's specialists; to plan	n programs	to palyno in these	logy, fora fields and	minifers and other generally improve			
740062*	Fraser Delta sedimentation	Luternauer, JL	С	-	PMG	BC			
(2521)	Obj: To provide a geological/sedimente land and waterfront planning and e	ological knowledge base ab environmental management.	out the act	ive delta of	f the Frase	er River for general			
	NTS: <u>92 G</u>								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
740065 (2551)	Surficial geology inventory, Banks Island	Vincent, J-S	TS	-	RP	Frank		
	<ul> <li>Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover, and undertake geomorphic process studies in order to provide areal knowledge of geology and terrain that will:</li> <li>1. aid in the implementation of the Territorial Land Use Regulations;</li> <li>2. be pertinent to engineering construction, petroleum exploration and related activities;</li> <li>3. provide data relative to terrain sensitivity rating; and</li> <li>4. elucidate the Quaternary history of the region.</li> </ul> NTS: 88 B,C,D,F; 97 G,H; 98 A-F							
740067 (2551)	Surficial geology-terrain inventory, Bathurst–Cornwallis and eastern Melville Islands	Edlund, SA	ΤS	-	RP	Frank		
	Obj: Map, describe and explain the sur- knowledge of geology, geomorphol and various aspects of engineering	ogy and terrain as backgro	und inform	nation suite	able for lar	nd use management		
	NTS: 68 E-H; 69 A,B; 78 E-H; 79 A,B							
740068* (2551)	Surficial geology, Ottawa Valley lowlands	Richard, SH	TS	-	RP	Ont Que		
	<ul> <li>Obj: To map, describe and explain the unconsolidated deposits and landforms of the Ottawa Valley lowlands (31 G, 31 F (parts of) and 31 B (parts of) in order to provide geology and terrain information pertinent to land use planning, agriculture, urban and industrial development, forestry and engineering construction and to determine the Quaternary history of the region.</li> <li>NTS: Pts 31 B,C,F,G</li> </ul>							
740072*		Creat DD	TS		80			
740072* (2551)	Surficial geology of Newfoundland Obj: To map and describe and explain	Grant, DR		-	RP Ior to provi	<u>Nfid</u>		
	of geology and terrain as backgrou granular deposits, community was aspects of engineering construction	nd information relative to ter-supply problems, forest	land-use p try, urban	and indust	ineral expl rial develo	oration, location of		
	NTS: <u>  M;</u> 2; Pts    0;  2 A,B,G,H							
740081*	Environmental Geochemistry	Jonasson, IR	RGG	RGC	ER	Yk Mack BC Ont Que		
	<ul> <li>Obj: 1. Understand the nature of phys surficial environment.</li> <li>2. Coordinate subdivision activitie</li> <li>3. Provide appropriate surficial of studies.</li> <li>4. Develop research program in g determine modes of genesis of</li> </ul>	es relating to environmental chemical and lithochemical geochemistry of geothermal epithermal mineralization o	matters. support t fluids, ba n land and	o Cordiller oth continer Lunder sea.	an sedimer ntal and su	ntary basin analysis bmarine; and hence		
	NTS: <u>74 H,I; 64 E,L; 82 F,G; 92 E,F,G; 9</u>	4 F,G; 95 E,F; 104 N; 105 I,	J,O; 106 A	-F; 116 G,f	<b>-;</b> 103 B,G;	101 A,B		
740084* (250)	Silurian-Ordovician macro- biostratigraphy of Anticosti Island, Quebec	Bolton, TE	DGO	-	SP	Que, NB NS Kee Ont		
	<ul> <li>Obj: To obtain data on the Silurian and Ordovician rocks of Anticosti Island, St. Lawrence platform and Marit regions to provide: <ol> <li>precise descriptions for all appropriate stratigraphic units of their succession, thickness, lithology, factoringe, faunal content;</li> <li>descriptions of significant fauna for each stratigraphic unit; and</li> <li>local and regional correlations consistent with the data.</li> </ol></li></ul>							
	NTS: <u>22</u> A,B, <u>D</u> ,H; 12 E,F,L; 18; 11 F; 45; 46; 31 G,H; <u>32 A</u>							
740091* (2574)	Borehole Geophysics (Electrical and Magnetic Techniques)	Dyck, AV	RGG	RGP	BG	BC <u>Ont</u> Que NB Man Sask Nfld		
	Obj: To contribute to the development efficiency and effectiveness of min geological mapping.	nt of borehole mining geo ineral exploration practices	physics to , geophysi	echnology cal techniq	as a mean ues applied	s of improving the I to engineering and		
	NTS: <u>41 I</u> ,J; 52 <u>B</u> ; 31 F,K; 74 H,I; <u>64</u> C, <u>H</u> ,L; 62 I; <u>32 D</u> ,E, 12 <u>A</u>							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
740098* (2561)	Metallogeny of the northern Canadian Cordillera	Dawson, KM	EGM	EG	RMS	<u>BC</u> Yk			
	<ul> <li>Obj: To integrate present mineral commodity and regional geological studies in order to:</li> <li>examine the large scale geological controls and distribution of known mineral deposits;</li> <li>assist in planning of future geological mapping; and</li> <li>assess the area with regard to its mineral potential.</li> </ul>								
	NTS: <u>92 H,J; 82 K,M; 103 G; 104 N,O,P;</u>	105 B,F,G; 95 D; 114 P							
740107* (2572)	Trace elements in sulphides	Jonasson, IR	RGG	RGC	ER	Ont BC Yk Mack Que			
	<ul> <li>Obj: 1. To determine the typical contents and ranges of trace elements, (plus their stable isotopes) including metals, metalloids and non-metals in ores, ore minerals and accessory minerals.</li> <li>2. To assess the value of such data with regard to classification of ores, estimates of ore reserves of rare metals, definition of geochemical and metallogenic provinces, establishment of environment baseline levels.</li> <li>3. To provide a systematic geochemical inventory for regional surveys carried out on land and in offshore areas of Canada's economic zone, west coast.</li> </ul>								
	NTS: <u>42 A; 32 D; 31 A,B,C,F,P; 94 F,G;</u>	104 N; 105 A,I,J,O; 106 A,	B,C,E,F; 101	A,B					
750006 (2531)	Stratigraphy and petrology of the Natkusiak Basalts, Victoria Island	Baragar, WRA	Р	-	SP	Frank			
	Obj: To determine the variation in chemical composition and petrography of the lavas with stratigraphic level, to obtain representative bulk compositions of the flows, to determine relationships between the composition of the flows and associated copper prospects and between the flows and accompanying sills, and to obtain contributory information towards an understanding of late Precambrian tectonic history in the northwestern Canadian Shield.								
	NTS: Pts of 77 G; 78 B; 87 E,F,G,H; 88 A	4,В							
750010* (2561)	Geology of Uranium and Thorium Resources in Canada	Ruzicka, V	EGM	EG	RMRA	Ont Sask Kee Mack Que NS Nfld NB			
	Obj: To carry out comprehensive resear 1. support or provide geologically 2. provide guidelines for their disc 3. provide advice to government f	based estimates of Canad covery; and	la's uranium a	ind thorium					
	NTS: <u>41 I,J;</u> 52 A,H; <u>64 E,L;</u> <u>74 G,H,I;</u> 65	5; <u>75; 21;</u> 22 M; 23 D; <u>12</u> ; <u>2</u>	<u>20 P</u>						
750011 (2531)	Geology, petrology and economic potential of the anorthosite suite in southern Labrador	Emslie, RF	Ρ	-	PET	Nfld			
	<ul> <li>Obj: 1. Comparison of rock types, ro Grenville Front.</li> <li>2. Estimation of the grade of regi</li> <li>3. Determination of age of the an</li> <li>4. Investigation of the economic r</li> </ul>	onal metamorphism in this orthosite suite of rocks.	s part of Gre	nville Prov		itures north of the			
	NTS: 13 B,C,E,F,G; <u>23 A</u>								
750018 (2524)	Stratigraphic and sedimentological studies of Lower Cretaceous rocks, Rocky Mountain Foothills and Front Ranges, Alberta and British Columbia	Gibson, DW	ISPG	CG	GC	BC Alta			
	CURRENT ossible to and tauna; to rio Tto ANAILABLE mine of were deposited and eventually to the potential coal resources of the	criteria useful in determin provide a regional geolog	ning the sub-	environmer	nts in whic	h deltaic sediments			

NTS: 82 G,J,O

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
750019 (2511)	Structure and stratigraphy of Paleozoic and lower Mesozoic rocks in Halfway River Map-area Northeastern British Columbia	Thompson, RI	С	-	CMG	BC		
	Obj: To revise Halfway River map-area (94B) at 1:250 000 scale (including subdivision of Triassic strata); to map 94 B/3, 4, 5, 6, 11, 12, 13, 14 at 1:50 000 scale and to study in detail the structure and stratigraphy of this area and CURRENCTIONS CBANA Ideal, to determine the regional stratigraphic and structural setting of Pb-Zn mineratization in the Bree to help develop models for the stratigraphic and structural evolution of this portion of the bocky mountains.							
	NTS: 94 B							
750023 (2526)	Methodology of petroleum resource evaluation	Lee, PJ	ISPG	PRAS	-	-		
	Obj: To provide a reliable, effective and s	statistically valid methodol	ogy for es	stimation of	resource	abundance.		
750024 (2523)	Petroleum geology of Tertiary, Mesozoic and Paleozoic strata north of 70°	McMillan, NJ	ISPG	PG	PR	Frank		
	Obj: To provide a reliable and adequate stratigraphic framework and Petroleum, Geology data base for assessment by the Energy Subcommittee for the areas of hydrocarbon potential. To document proven and potential hydrocarbon occurrences in the area.							
	NTS: 37-39; 47-49; 57-59 E-H; 67-69; 77-	79; 87-89; 97-99; 120; 340;	; 560 A,B,	D				
750025 (2523)	Petroleum Geology of Tertiary, Mesozoic and Paleozoic north of 68° on the NWT and Yukon mainland and offshore	Dietrich, JR	ISPG	PG	PR	Mack, Yk		
	Obj: To provide a reliable and adequate area's hydrocarbon potential and to a							
	NTS: 97; 107; 117							
750035* (2511)	Biostratigraphic study of Mesozoic rocks in the Inter- montane and Insular Belts of the Canadian Cordillera	Tipper, HW	С	-	CMG	<u>BC Yk</u>		
	Obj: To determine the biostratigraphic geological history and paleogeograph NTS: 92 H,L; 93 E; 94 D; 103 C,F,G; 104 H	ny in the evolution of the M			ly Jurassi	c, and to define a		
750036	Silurian and Devonian	McGregor, DC	ISPG	Р	OP	-		
(2522)	<ul> <li>spores of Canada</li> <li>Obj: To refine palynological methods of a l. identifying and describing Siluria</li> <li>2. determining their value in terms</li> <li>3. establishing stratigraphic refere basins in Canada.</li> </ul>	n and Devonian spores; of regional and world wide	biostratio	graphy; and				
750039 (2572)	Automated Geochemical Cartographic Development	Ellwood, DJ	RGG	RGC	SDS	-		
	Obj: To develop new methods and improv computer systems which use these scales.							
750043* (2542)	Consulting advice on physical environmental problems in the coastal zone	Taylor, RB	AGC	EMG	SG	Nfld		
	Obj: To provide consultation and expert advice is to be provided in response		lems in t	he coastal	zone of th	e Maritimes. This		
	NTS: 10 N; 11 D,K; 21 H,P							

Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
Geochemical transformations and reactions of organic compounds in recent marine sediments	Rashid, MA	AGC	EMG	G	Atlantic Offshore		
<ol> <li>Obj: 1. To determine the influence of depositional environment in the quantitative and qualitative distribution of organic compounds so as to decipher the physical and chemical history of sedimentation.</li> <li>2. To isolate, identify and characterize various chemo-taxanomic constituents so as to develop guide lines for the interpretations of major geological events.</li> <li>3. To determine and correlate early diagenetic transformations with long-term diagenesis resulting in the evaluation of oil and gas.</li> <li>4. To understand the role and influence of organic compounds on solubility, mobility and recycling of trace metals.</li> <li>5. To collect and compile geochemical data on sedimentary organic matter to write a book for the benefit of</li> </ol>							
National geochemical reconnaissance	Hornbrook, EHW	RGG	RGC	-	NB NS Nfld Ont Sask BC Yk Frank		
data to indicate areas of mine provide information on the nat 2. To investigate geochemical vo	eral commodity potential for tural abundance of elements rriability in lake surveys in v	n exploratio in the envi arious terro	n and resou ronment.		ent, reconnaissance		
Structural studies in the Mackenzie Arc, Franklin Mountains and Coleville Hills	Cook, DG	ISPG	RG	-	Mack		
Obj: To conduct detailed examinations of typical structures and thus obtain a clearer understanding of the geometry and kinematics of deformation within the study area. To remap those areas within the Mackenzie Arc and Franklin Mountains that are considered to have been inadquately mapped in initial reconnaissance stages.							
Lower Paleozoic geology of Eastern Canada	Sanford, BV	Ρ	-	SP	Ont Que NB		
<ul> <li>in northern and eastern offs</li> <li>in the southern regions, determined</li> </ul>	hore regions, reconnaissance ailed mapping when required	e mapping o I for terrain	n an opport studies.	unity basis			
NTS: Pts 30; 31; 40; 41; 52; 21							
Quaternary geochronology, Arctic Islands	Blake, W, JR	TS	-	PG	Frank		
2. To investigate the suitability	phic framework for Quatern of other methods of age	ary time in determinat	the Arctic ions, espec	Archipelag ially those	jo. e beyond the range		
3. To determine rates of crustal		uaternary ti	me as possi	ble.			
NTS: 25-28; <u>29</u> F,G; 35-37; <u>38 F,G; 35</u> 340; 560	9 B,C,E-H; 47; <u>48 E,H; 49 A</u>	,B,D,E,H;	57-59; 67-6	59; 77-79;	87-89; 97-99; 120;		
Interdepartmental & Intergovernmental Technical Services	Manistre, BE	DGO	-	-	-		
Geoscience Aid projects as rea	quired by the EMR/CIDA	Memorand	um of Un	derstanding			
Geology of uranium resources of Canada 3	Bell, RT	EGM	EG	RMRA	BC <u>Yk</u> Mack Alta Sask Man <u>Que Nfld</u>		
the Canadian Shield in order to: 1. provide or support geological 2. provide guidelines for discover	y based estimates of Canado ry of deposits; and	's uranium	resources;	ntary basin	s in Canada west of		
	<ul> <li>Geochemical transformations and reactions of organic compounds in recent marine sediments</li> <li>Obj: 1. To determine the influence of organic compounds so as to de</li> <li>2. To isolate, identify and character the interpretations of major g</li> <li>3. To determine and correlate evaluation of oil and gas.</li> <li>4. To understand the role and it metals.</li> <li>5. To collect and compile geoch geologists, geochemists and of geologists, geochemists and of metals.</li> <li>6. To provide for governments data to indicate areas of mine provide information on the national geochemical reconnaissance</li> <li>Obj: 1. To provide for governments data to indicate areas of mine provide information on the national searce area, Franklin Mountains and Coleville Hills</li> <li>Obj: To conduct detailed examination and kinematics of deformation of Franklin Mountains that are consist in northern and eastern offs - in the southern regions, det</li> <li>2. To study all data that become the frontier basins.</li> <li>NTS: Pts 30; 31; 40; 41; 52; 21</li> <li>Quaternary geochronology, Arctic Islands</li> <li>Obj: 1. To establish a chronostratigra 2. To investigate the suitability of <sup>14</sup> C.</li> <li>3. To determine rates of crustal 4. To reconstruct environments of Geoscience Aid projects as reconstruct on the souther resonstruct environments of Geoscience Aid projects as reconstruct environ</li></ul>	Title         Leader           Geochemical transformations and reactions of organic compounds in recent marine sediments         Rashid, MA           Obj:         1. To determine the influence of depositional environment organic compounds so as to decipher the physical and chera- torization of oil and gas.         3. To determine and correlate early diagenetic transform evaluation of oil and gas.           4. To understand the role and influence of organic compo- metals.         5. To collect and compile geochemical data on sedimentary geologists, geochemists and other disciplines related to or data to indicate areas of mineral commodity potential for provide information on the natural abundance of elements 2. To investigate geochemical variability in lake surveys in v           NTS: Pts I-16; 23; 27; 31 C,F; 37; 41; 42; 52 A,B; 74 J; 104; 105; 11           Structural studies in the marking and Coleville Hills           Obj:         To conduct detailed examinations of typical structures and i and kinematics of deformation within the study area. To i Franklin Mountains that are considered to have been inadquat           NTS: 96 B,C,E,F           Lower Paleozoic geology         Sanford, BV           of Eastern Canada         Sanford, BV           Obj:         To continue detailed and regional studies of Lower Paleoz - in northerm and eastern offshore regions, reconnaissance - in the southern regions, detailed mapping when required 2. To study all data that become available from petroleum e the frontier basins.           NTS: Pts 30; 31; 40; 41; 52; 21           Guaternary geochronology, Arctic Islands <td>TitleLedderDiv.Geochemical transformations and reactions of organic compounds in recent marine sedimentsRashid, MAAGCObj:1. To determine the influence of depositional environment in the quo organic compounds so as to decipher the physical and chemical histor 2. To isolate, identify and characterize various chemo-taxanomic cons the interpretations of major geological events.3. To determine and correlate early diagenetic transformations with evaluation of oil and gas.4. To understand the role and influence of organic compounds on so metals.5. To collect and compile geochemcial data on sedimentary organic m geologists, geochemists and other disciplines related to organic geochNational geochemical reconnalissanceObj:1. To provide for governments and industry nationally consistent, sy: data to indicate areas of mineral commodity patential for exploratio provide information on the natural abundance of elements in the envil 2. To investigate geochemical variability in lake surveys in various terraNTS: Pts 1-16; 23; 27; 31 C,F; 37; 41; 42; 52 A,B; 74 J; 104; 105; 117Structural studies in the mackenzie Arc, Franklin Mountains and Coleville HillsObj:1. To continue detailed and regional studies of Lower Paleozoic terrain- and kinematics of deformation within the study area. To remap thos Franklin Mountains that are considered to have been inadquately mappedNTS: 96 B,C,E,FLower Paleozoic geology 5. To ostudy all duat that become available from petroleum exploration f the frontier basins.NTS: Pts 30; 31; 40; 41; 52; 21Quaternary geochronology, Artric IslandsDij:1. To establish a chronostratigraphic</td> <td>Title         Ledder         Div.         Subdiv.           Geochemical transformations and reactions of organic compounds in recent marine sediments         Rashid, MA         AGC         EMG           Obj:         1. To determine the influence of depositional environment in the quantitative a organic compounds so as to decipher the physical and chemical history of sedime         2. To isolate, identify and characterize various chemo-taxanomic constituents so the interpretations of major geological events.         3. To determine and correlate early diagenetic transformations with long-term evaluation of oil and gas.         4. To understand the role and influence of organic compounds on solubility, momentals.           5. To collect and compile geochemical data on sedimentary organic matter to wr geologists, geochemists and other disciplines related to organic exploration and reacomprovide information on the natural doundance of elements in the environment.         2. To investigate geochemical variability in lake surveys in various terrains.           NTS: Pts 1-16; 23; 27; 31 C,F; 37; 41; 42; 52 A,B; 74 J; 104; 105; 117         Structural studies in the Cook, DG ISPG RG Mackenzie Arc, Franklin Mountains that are considered to have been inadquately mapped in initial resider and collecting when required for terrain of easter or or face areas of mines of sedime trains and public a</td> <td>Title         Lender         Div.         Subdiv.         Sec.           Geochemical transformations and reactions of organic compounds in recent marine sediments         Rashid, MA         AGC         EMG         G           Obj:         1. To organic compounds so as to decipher the physical and chemical history of sedimentation.         To isolare, identify and characterize various chemo-taxanomic constituents so as to device the interpretations of major geological events.         To understand the role and influence of arganic compounds on solubility, mobility and metals.         To understand the role and influence of organic compounds on solubility, mobility and metals.         To collect and compile geochemical data on sedimentary organic matter to write a book geologists, geochemists and other disciplines related to organic geochemistry.           National geochemical metals.         Hornbrook, EHW         RGG         RGC         -           Obj:         1. To provide for governments and industry nationally consistent, systematic, multi-eleme data to indicate areas of mineral commodity potential for exploration and resource apprai provide information with a horg down area. To remore these viscons and Mountains and Coleville Hills         Cook, DG         ISPG         RG         -           Obj:         1. To provide for governments of typical structures and two obtain a clearer understand mountains and Coleville Hills         Soft, BV         P         -         SP           Obj:         1. To continue detailed and regional studies of lower Paleozoic terrain of eastern Canada, - in</td>	TitleLedderDiv.Geochemical transformations and reactions of organic compounds in recent marine sedimentsRashid, MAAGCObj:1. To determine the influence of depositional environment in the quo organic compounds so as to decipher the physical and chemical histor 2. To isolate, identify and characterize various chemo-taxanomic cons the interpretations of major geological events.3. To determine and correlate early diagenetic transformations with evaluation of oil and gas.4. To understand the role and influence of organic compounds on so metals.5. To collect and compile geochemcial data on sedimentary organic m geologists, geochemists and other disciplines related to organic geochNational geochemical reconnalissanceObj:1. To provide for governments and industry nationally consistent, sy: data to indicate areas of mineral commodity patential for exploratio provide information on the natural abundance of elements in the envil 2. To investigate geochemical variability in lake surveys in various terraNTS: Pts 1-16; 23; 27; 31 C,F; 37; 41; 42; 52 A,B; 74 J; 104; 105; 117Structural studies in the mackenzie Arc, Franklin Mountains and Coleville HillsObj:1. To continue detailed and regional studies of Lower Paleozoic terrain- and kinematics of deformation within the study area. To remap thos Franklin Mountains that are considered to have been inadquately mappedNTS: 96 B,C,E,FLower Paleozoic geology 5. To ostudy all duat that become available from petroleum exploration f the frontier basins.NTS: Pts 30; 31; 40; 41; 52; 21Quaternary geochronology, Artric IslandsDij:1. To establish a chronostratigraphic	Title         Ledder         Div.         Subdiv.           Geochemical transformations and reactions of organic compounds in recent marine sediments         Rashid, MA         AGC         EMG           Obj:         1. To determine the influence of depositional environment in the quantitative a organic compounds so as to decipher the physical and chemical history of sedime         2. To isolate, identify and characterize various chemo-taxanomic constituents so the interpretations of major geological events.         3. To determine and correlate early diagenetic transformations with long-term evaluation of oil and gas.         4. To understand the role and influence of organic compounds on solubility, momentals.           5. To collect and compile geochemical data on sedimentary organic matter to wr geologists, geochemists and other disciplines related to organic exploration and reacomprovide information on the natural doundance of elements in the environment.         2. To investigate geochemical variability in lake surveys in various terrains.           NTS: Pts 1-16; 23; 27; 31 C,F; 37; 41; 42; 52 A,B; 74 J; 104; 105; 117         Structural studies in the Cook, DG ISPG RG Mackenzie Arc, Franklin Mountains that are considered to have been inadquately mapped in initial resider and collecting when required for terrain of easter or or face areas of mines of sedime trains and public a	Title         Lender         Div.         Subdiv.         Sec.           Geochemical transformations and reactions of organic compounds in recent marine sediments         Rashid, MA         AGC         EMG         G           Obj:         1. To organic compounds so as to decipher the physical and chemical history of sedimentation.         To isolare, identify and characterize various chemo-taxanomic constituents so as to device the interpretations of major geological events.         To understand the role and influence of arganic compounds on solubility, mobility and metals.         To understand the role and influence of organic compounds on solubility, mobility and metals.         To collect and compile geochemical data on sedimentary organic matter to write a book geologists, geochemists and other disciplines related to organic geochemistry.           National geochemical metals.         Hornbrook, EHW         RGG         RGC         -           Obj:         1. To provide for governments and industry nationally consistent, systematic, multi-eleme data to indicate areas of mineral commodity potential for exploration and resource apprai provide information with a horg down area. To remore these viscons and Mountains and Coleville Hills         Cook, DG         ISPG         RG         -           Obj:         1. To provide for governments of typical structures and two obtain a clearer understand mountains and Coleville Hills         Soft, BV         P         -         SP           Obj:         1. To continue detailed and regional studies of lower Paleozoic terrain of eastern Canada, - in		

NTS: 23; 24; 105; 115

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
750071 (2551)	Quaternary geology – terrain inventory, Boothia Peninsula, northeastern Keewatin, and Somerset and Prince of Wales Islands	Dyke, AS	TS	-	RP	Frank Kee			
	Obj: To map, describe, and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover in order to provide areal knowledge of geology and terrain as background information relative to land use planning and various aspects of engineering construction, to gather information pertinent to the Quaternary history of the area.								
	NTS: 57 A-D,F,G; 58 A-D; 67 E,H; 68 A-E	E							
750072* (2551)	Quaternary geology, terrain inventory, northeastern Manitoba	Dredge, LA	TS	-	RP	Man			
	Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover in order to provide areal knowledge of geology and terrain as background information relative to land use planning and engineering construction, to provide data relative to terrain sensitivity rating and to determine the Quaternary history of the region.								
	NTS: <u>54 D,E,F,K,L,M</u> ; 64 I,J,K,L,M,N,O,P								
750074 (2552)	Uranium drift prospecting techniques, Lower Kazan River area	Klassen, RA	TS	-	SMT	Kee			
	Obj: To study glacial and postglacial proc and to investigate the use of till in m	esses that can affect the g nineral exploration for uran	geochemi ium and c	cal propert other metal	ies of till c s.	nd other sediments			
	NTS: 55 M,N,L; 56 C,D; 65 P,I,O; 66 A								
750076 (2551)	Quaternary geology of the Canadian Cordillera	Fulton, RJ	TS	-	RP	BC Yk Alta Mack			
	Obj: To gather and synthesize information regarding Quaternary deposits, stratigraphy, geomorphology and chronology of the Canadian Cordillera.								
	NTS: 82; 92; 93; 103; 105 M; 115 P								
750083 (2521)	Mesozoic stratigraphy and Basin analysis of Sverdrup Basin, Arctic Archipelago	Embry, AF	ISPG	RG	AI	Frank			
	Obj: 1. To determine regional stratigraph 2. To determine environments of de 3. To determine the geologic history 4. To assess the economic potential	position of the strata. v of the Sverdrup Basin duri of the Mesozoic strata.							
	NTS: 29; 39; <u>49 E-H; 59 H;</u> 69; 79; 87; 99;	120; <u>340 B,C; 560 A</u>							
750088 (2524)	Investigations concerning the optical properties of coals and dispersed organic materials	Kalkreuth, WD	ISPG	CG	СТ	BC Alta			
	Obj: To provide information on metamory the GSC geologists, the data to be u other rock bodies and for estimating	sed for establishina metam	orphic re	aimes for a	correlation	of coal seams and			
750094 (2561)	Development of computer-based statistical techniques applicable to regional geological and mineral deposit data	Chung, CF	EGM	EG	MAG	-			
	Obj: Develop and apply statistical techni data and mineral deposit data.	iques as an input to metho	ods for re	gional reso	urce evalu	ation of geological			
750098* (2561)	Metallogeny of the south- western part of the Canadian Shield	Franklin, JM	EGM	EG	MDG	Man Sask Que Ont Frank Kee Mack			
	Obj: To provide a regional synthesis of th of Long. 25°, in order to determi prospecting and to the economic deve	ne the origin, setting an	of the Car d distribu	nadian Shie ution of m	ld south of ineral dep	Lat. 60° and west osits as an aid to			
	NTS: 31; 32; 41; 42; 43; 52; 53; 54; 62; 63; 64; 73; 74								

NTS: 31; 32; 41; 42; 43; 52; 53; 54; 62; 63; 64; 73; 74

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
750102 (2531)	Regional syntheses, southern Keewatin, Project l	Eade, KE	Ρ	-	NC	Kee		
	Obj: To provide a single comprehensive source for all relevant data on the region; to prepare and have available for presentation broad regional and tectonic synthesis; and to have a designated "expert" who will be thoroughly familiar with the geological data and related economic aspects of the region. NTS: 65 C							
	1413: 63 C							
750108* (2512)	Marine surficial geology and sedimentation, British Columbia	Bornhold, BD	С	-	PMG	BC		
	<ul> <li>Obj: In order to provide the sedimentological framework and geological perspective for environmental concerns and landmass description: <ol> <li>map, describe and explain in a systematic manner the physiography, surficial deposits, processes and history of the Pacific continental shelf, slope, deep sea, straits, and fiords of British Columbia;</li> <li>determine the composition, distribution, transport mechanisms and flux of suspended particulate matter in the marine waters off the British Columbia coast.</li> </ol> </li> </ul>							
	NTS: <u>92 K;</u> <u>103</u> A,B,F,G, <u>J,K</u>							
750110 (250)	Federal–Provincial and Federal Territorial mineral evaluation liaison and co–ordination	Findlay, DC	EGM	EG	-	-		
	Obj: To provide technical advice and liaison on the Geological Survey's involvement in the design and monitoring of joint federal-provincial actions in mineral resource evaluation and development; to participate, as required in the co-ordination, implementation, and management of such projects; same for mineral evaluation projects in northern Territories (Yukon, NWT) conducted by GSC in cooperation with other agencies (eg. DINA).							
760010* (2551)	Surficial geology, geochronology and terrain inventory of the Ringnes and adjacent islands	Hodgson, DA	TS	-	RP	Frank		
	Obj: To map, describe and explain surfic base data necessary for land manage region.							
	NTS: 59 B,C,F; <u>69 A</u> ,C,D,E,F; 79 D,E; <u>68</u>	G, <u>H</u> ; 78 H; <u>88 G,</u> H; 89 A,B						
760014 (2561)	Geology of uranium resources of Canada-4	Dunsmore, HE	EGM	EG	MDG	NS NB Nfld Que		
	Obj: Comprehensive research on the geo 1. support or provide geologically b 2. provide guidelines for their disco 3. provide advice to government for	based estimates of Canada's overy;	uranium					
	NTS: 11; 12; 21							
760015* (2541)	Eastern Baffin Island shelf bedrock and surficial geology mapping program	MacLean, B	AGC	RR	EAOG	Arctic Offshore		
	Obj: To investigate and map the geolog unconformity on the eastern Baffin and surficial data in a regional cor sample data. To investigate the eastern Baffin Island shelf and adjoint	Island shelf and adjoining on text and to check the vali- distribution and geological	areas. To dity of go	o obtain ge eophysical i	ophysical c nterpretat	lata to put bedrock ion against bedrock		
	NTS: Pts 15; 16; 17; 25; 26; 27; 28; 38							
760023 <sup>-</sup> (2531)	Precambrian geology of south- east Ellesmere, Devon and Cobourg Islands	Frisch, T	Ρ	-	NC	Frank		
	Obj: To complete the reconnaissance geo	ological mapping of the nort	hern Chu	rchill Provi	nce.			
	NTS: Pts 38 B; 39 B-H; 48 E-H; 49 A,B,D	,E,H						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
760024 (2531)	Keskarrah Bay map-area, District of Mackenzie, NWT	Henderson, JB	Ρ	-	BS	Mack			
	Obj: To determine the extent and significance of Archean basement rocks in the area; to identify stratigraphic control of base metal mineralization to improve understanding of iron formations and their significance in the region; and to obtain a better understanding of the evolution of an Archean basin in the Slave Province. NTS: 86 H/2,3,6,7								
760026 (2531)	Geology of Penrhyn Fold Belt, Melville Peninsula, NWT	Henderson, JR	Ρ	-	NC	Frank			
	Obj: To determine the structural, metamorphic, stratigraphic and age relations between basement gneisses and migmatites, and the covering Penrhyn Group metasedimentary gneisses and schists. To elucidate the structural development of polyphase folds in an area of high-grade metamorphic rocks. To provide structural-stratigraphic and isotopic age bases for regional correlation.								
	NTS: 46 O,P; 47 A								
760027*	Redbed sequences in Canada	Chandler, FW	Р	-	PET	<u>Ont</u> Que			
(2531)	Obj: To determine the origin and sedime the influences of climate, topography the processes which contribute to the	, weathering, sedimentation	on and dia	igenesis on	their origin	; and to determine			
	NTS: <u>Pts</u> 31; <u>41</u>								
760042* (2522)	Jurassic biostratigraphy and paleontology of selected areas of western and Arctic Canada	Poulton, TP	ISPG	Ρ	McP	<u>BC Alta</u> Yk Frank Mack			
	Obj: To provide detailed biostratigraphic and lithostratigraphic data on Jurassic rocks of selected parts of British Columbia, Alberta, Yukon Territory and Northwest Territories, by field work and study of submitted fossils. To describe taxonomically the most important faunal elements.								
	NTS: <u>82 G,J,O; 83 C,E; 92 H,L,N,O</u> ; 93 O; 79; 89 A; 340 D; 560	94 B; 103; 104 I,J; 105 D;	106 D,M;	107 M; 115	; 116 A,B,C	C,N,O,P; 49; 59; 69;			
760047 <sup>-</sup> (2572)	Regional geochemistry–Northern Canadian Shield	Maurice, Y	RGG	RGC	RR	Mack Kee Frank Sask			
	<ul> <li>Obj: To determine the nature and factors stream and lake waters and sediment 1. evaluate the effectiveness of the specifications;</li> <li>2. provide methodology for interpre 3. assess the mineral potential of volume 1.</li> </ul>	ts, etc. in order to: le NGR program (project 7 ting and following up NGR arious regions and rock unit	750051) ai reconnai:	nd improve ssance resul	the operat	ing techniques and			
	NTS: 76 H,I; 75 E,F-K; 74 H; 46 N,O,P; 47	A,B,E,F							
760053 (2523)	Hydrocarbon geochemistry of Arctic Archipelago	Snowdon, LR	ISPG	PG	GC	Frank			
	Obj: To determine presence or absence reasonable gas/oil ratios may be o maturation isopleths can be plotted hydrocarbons dispersed in fine grai regions or plays.	letermined; to calculate d and used to map probat	probable ble petrol	or maximu eum regior	m maturat is; to quan	tion levels so that titatively evaluate			
	NTS: 98; 88; 78; 68; 58; 99; 89; 79; 69; 59;	49; 560; 340							
760054 (2523)	Hydrocarbon geochemistry of Canadian East Coast offshore	Snowdon, LR	ISPG	PG	GC	Atlantic Offshore			
	Obj: To determine presence or absence reasonable gas/oil ratios may be of maturation isopleths can be plotted hydrocarbons dispersed in fine grai regions or plays.	determined; to calculate d and used to map probat	probable ble petrol	or maximu eum regior	m maturat ns; to quar	tion levels so that ntitatively evaluate			

NTS: 14; 3; 10; 11; 20

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
760056 (2524)	Resource evaluation and geology of coal deposits of western Canada	Dawson, FM	ISPG	CG	RE	Alta		
	Obj: To conduct resource evaluation programs required for the National Coal Inventory and to recommend the office and/or field studies to be undertaken to meet the requirements of the inventory program. To acquire industry and provincial government data on Canada's coal deposits. To study the geological framework within which these coals occur. To provide authoritative advice to senior Departmental officials and to scientists in government and industry on the resource potential of Canada's coal deposits. To maintain an up-to-date knowledge of coalfields in Canada.							
	NTS: 83 A,H							
760058* (2551)	Vegetation distribution and relationships to surficial materials-Arctic	Edlund, SA	TS	-	RP	<u>Frank</u> Kee		
	Obj: To map and describe vegetation dis Arctic.	stribution and plant comm	nunities o	as they rela	ate to sele	ected areas of the		
	NTS: <u>25 N; 58 F; 77 D; 78 G; 88 G,H; 89 A,</u>	B						
760059 <sup>-</sup> (2511)	Study of large landslides in the Cordillera	Eisbacher, GH	С	-	CMG	Mack Yk BC		
	Obj: To determine the setting and mechar criteria for assessing potential landsli			ected parts	of the Cor	dillera to establish		
	NTS: 92 G; 93 D; 106 C,F; 95 L,M; 94 F,K;	105; 116						
760061* (2531)	Regional synthesis of the Grenville Province in Ontario and western Quebec	Davidson, A	Ρ	-	SG	Ont Que		
	Obj: To effect a regional synthesis of th interpret the synthesis in terms of th of the Grenville Province as a whole.							
	NTS: <u>Pts 31; 41; 32</u>							
760062* (2521)	Geology of bedded phosphate deposits in Canada	Christie, RL	ISPG	RG	AI	<u>BC Alta</u>		
	Obj: To identify Canadian phosphate reso patterns and occurrences, association			ing of the r	egional geo	ology relationships:		
	NTS: <u>82</u>							
760063 (2523)	Hydrocarbon geochemistry of northern interior plains and Beaufort Sea	Snowdon, LR	ISPG	PG	GC	Yk Mack		
	Obj: To determine presence or absence or reasonable gas/oil ratios may be do maturation isopleths can be plotted hydrocarbons dispersed in fine grain regions or plays.	etermined; to calculate p I and used to map probab	robable ( le petrol	or maximur eum region	n maturat s; to quan	ion levels so that titatively evaluate		
	NTS: 106; 107; 117							
760064 (2561)	Geology of Mineral Resources in the Oceans	Gross, GA	EGM	EG	SP	-		
	<ul> <li>Obj: 1. To provide a base of geological possible extent of ocean mineral r</li> <li>2. To provide a direct and independing implications of their development Canadian mineral products.</li> </ul>	resources, and for evaluatindent national competence	ng their s for evalu	ignificance ating these	to Canada, resources	, and for appraising		
760065 (2571)	Digital Compilation of Queenair Aeromagnetic Data	Teskey, DJ	RGG	RG	GDP	-		
	Obj: 1. Production of total field and v Queenair airborne survey operation 2. Improved modes of operations and 3. Maintain an up-to-date bank of th 4. Processing and presentation of VL	ons. d presentations of the above data described above for	e data as	new compu	ter faciliti	es develop.		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
77000 * (25  )	Study of the Cenozoic Evolution of the Western Cordillera	Souther, JG	С	-	CMG	<u>BC</u> Yk
	<ul> <li>Obj: 1. To compile and publish a review of 2. To obtain data from selected relationships.</li> <li>3. To publish a series of topical por evolution of the Cordillera.</li> <li>NTS: Pts of 82; 92; 93; 103; 94; 104; 95; 103</li> </ul>	l areas where additional pers based on selected fig	data ar eld studie	e required	or which	illustrate typical
770004* (2543)	Reconnaissance field study of the Mesozoic sequences out- cropping on the Iberian Peninsula Obj: To provide evidence that the sedim beneath the Grand Banks.	Jansa, L entary sequences of the lbe	AGC erian Peni	EPG insula are c	SGBM o-eval wit	- h similar sequences
770006* (2512)	The Canadian Pacific Continental Margin Obj: To describe the geological archit including the Insular Belt and adjace the region. NTS: <u>92 B,C</u> ,D,E,F,L; 102 H,I,O,P; 103 B,G	ent offshore. To contribut				
770013 <sup>-</sup> (2531)	Operation Borden Obj: A study of the stratigraphy, sedime and ULUKSAN GROUPS) of norther the underlying basement gneisses. strata of west Greenland and Arctic NTS: Pts of 37 A; 38 B,C; 48 A-D	Jackson, GD entology, and economic pot in Baffin and Bylot Islands, A basin analysis will supply	and of th	ne relations	hips betwe	en these strata and
770015 (2571)	High Resolution Aeromagnetics (Instrumentation Development) Obj: To improve the performance of the sensitivity, precision, reliability, eff		RGG resolution	RG /gradiomete	EAO er survey s	- system, in terms of
770016* (2511)						
770017 (2511)	Stratigraphy, structure and metallogeny of the northern part of the Intermontane Belt (Whitehorse trough) in the Canadian Cordillera Obj: To provide data on, and extend sedimentary facies and mineral depo NTS: 105 C,E,L; 115 1	Tempelman-Kluit, DJ our understanding of, th osits on the northern Interm	C ne relatio nontane B	- nships betw elt of centr	CMG veen strat al Yukon,	Yk tigraphy, structure,
770019 <sup>-</sup> (2531)	Hepburn Batholith, Hepburn Lake map-area, District of Mackenzie Obj: To provide an analysis of the depos metamorphic character of the ba significance of the batholithic-euge NTS: 86 J,O	tholith, in order to recor	nstruct t	ne tectonic	history o	Mack ibe the plutonic and and understand the

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
770020	Kemano Project	Woodsworth, GJ	С	-	CMG	BC		
(2511)	Obj: To produce a report and geological map of Whitesail Lake (W½) map-area, on a scale of 1:250,000, with one or more 1:50,000 maps of the most critical areas.							
	NTS: 93 E							
770024* (2561)	Geology of uranium resources of Canada-V	Gandhi, SS	EGM	EG	RMRA	BC <u>Mack</u> NS, <u>Nfld</u>		
	<ul> <li>Obj: To carry out comprehensive research on the geology of uranium deposits in order to:</li> <li>l. support or provide geologically based estimates of Canada's uranium resources;</li> <li>2. provide guidelines for their discovery;</li> <li>3. provide advice to government for uranium policy and related matters.</li> </ul>							
	NTS: <u>75</u> E,F,J,K,L,N,O; 76; 85; <u>86 K;</u> 21 H	; <u>13 H, J</u> ,K,L, <u>O</u>						
770025*	Regional Geochemistry – Yukon	Goodfellow, WD	RGG	RGC	RR	<u>Yk</u> BC Mack		
(2572)	<ul> <li>Obj: 1. To determine through regional geochemical surveys the mineral potential of the Yukon.</li> <li>2. To assess through regional detailed studies the use of various geochemical sample media as a fundamental step towards the development of geochemical methodology appropriate to the project area.</li> <li>3. To provide a data base for the compilation of a National Geochemical Reconnaissance Map as a contribution to the mineral potential inventory of the nation.</li> </ul>							
	NTS: <u>105</u> A,B, <u>D,E</u> ,F,H,I,O; 106 E; 116 B,L	,M,N; <u>  5 A</u> ,G, <u>H,I,J,O</u> ;   7	A,B,C,D;	95 J,K,N				
770026 (2531)	Geology of Red Indian Lake, west half, Newfoundland	Herd, RK	Ρ	-	SG	Nfld		
	<ul> <li>Obj: 1. To revise the geology and evaluate the economic mineral potential of Red Indian Lake, west half (12 A, Where mapping at 1:50,000 scale and by compilation where needed.</li> <li>2. To monitor, assess and then absorb results of geological mapping of insular Newfoundland under the Canada Newfoundland Mineral Development Subsidiary Agreement.</li> </ul>							
	NTS: 12 A,B							
770028 <sup>-</sup> (2531)	Regional Synthesis – Baffin Island: Project I	Jackson, GD	Ρ	-	NC	Frank		
	Obj: Regional synthesis of all aspects Ellesmere Islands in the District of F		ogy of E	Baffin, east	tern Devor	and southeastern		
	NTS: 56-59; 45-49; 34-38; 24-27; 14-16							
770030 <b>*</b> (2551)	Géologie du Quaternaire, région de l'Outaouais supérieur Québec	Veillette, JJ	TS	-	RP	Que Ont		
	Obj: Cartographier, décrire et expliquer I. Fournir des données relatives à résérves d'eaux souterraines, à la 2. Determiner les propriétés physiq	l'utilisation du sol, à la p prospection géochimique.	rospectio	n et localis	ctifs secon ation de so	daires de: ble et gravier, aux		
	NTS: <u>31 M,L</u>							
770031 (2551)	Surficial geology and terrain evaluation, southern Yukon	Klassen, RW	TS	-	RP	Yk BC		
	Obj: To map, describe and explain the s data and knowledge of the stratigra for land-use planning and engineerin	phy, age and history of sur						
	NTS: 94 M; 95 D; 104 P; 105 A-D,E,J,K,L	; 115 A <b>,H,1;</b> 114 P						
770032 (2552)	Geological characterization of Arctic lakes: sediment properties and sedimentary processes	Adshead, JD	TS	-	SMT	Kee		
	Obj: To characterize Arctic lakes by sediments and watersheds, and to I) potential construction activities,	o evaluate postglacial se	dimentati	ion and di	agenetic p	rocesses to assist		

NTS: 66 A,H; 65 <u>A,H,I,P;</u> 55 E,F,M; <u>56 D,E,N,K</u>

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
770037 <sup>-</sup> (2552)	Slope processes and cryogenic movements, Arctic Islands	Heginbottom, JA	TS	-	GPEG	Frank	
	Obj: To document the nature, extent and rate of slope processes and cryogenic movements in a high-arctic, permafrost environment, and to determine the importance of surficial material, geomorphology, ground ice distribution, soil thermal and moisture regime, and other factors on them.						
	NTS: 58 F,G; 68 G,H; 79 B						
770041 (2524)	Compositional Characteristics of Coals from Hat Creek, British Columbia	Goodarzi, F	ISPG	CG	CT	BC	
	<ul> <li>Obj: 1. To determine the petrographic character of the coals of the Hat Creek deposit.</li> <li>2. To determine the suitability of vitrinite reflectance as a rank parameter in these low rank coals (lignite to sub-bituminous) and if suitable, to use this parameter as the basis of determination of the relative timing of coalification and deformation.</li> <li>3. To examine the nature, vertical and lateral variation of associated clastics in boreholes and to combine these data with those of the petrographic study and a literature survey to interpret the depositional and post depositional environment of the deposit.</li> <li>NTS: 92 I,P</li> </ul>						
770047* (2524)	Studies of coal deposits of western and northern Canada	Ricketts, BD	ISPG	CG	CG	Yk Mack Frank	
	Obj: To provide geologic data for the evaluation of late Paleozoic, Mesozoic and Tertiary coal resources of western and northern Canada; to prepare suitably illustrated geological reports for publication; to provide resource data for the National Coal Inventory.						
	NTS: 116 B,C,F,G; 106 E,F; 59 E,F,G,H; 96 C,F; 39 H; <u>49 E,G,H;</u> 58 G,H; 68 H; <u>340 B</u> ; <u>78 G</u>						
770048 (2522)	Brachiopods of the lower Upper Devonian Waterways Formation of northeastern Alberta	Norris, AW	ISPG	Ρ	Мар	Alta	
	Obj: To describe and illustrate the rich brachiopod fauna of early Frasnian (early Late Devonian) age that occurs in the Firebag, Calumet, Christina, Moberly and Mildred Members of the Waterways Formation outcropping along the Clearwater and Athabasca Rivers of northeastern Alberta (see GSC Memoir 313 by Norris).						
770051	NTS: 74 D,E; 84 P			00	CT.		
770051 (2524)	The relationship between Kerogen (type and rank) and chemical extract data, for the purpose of source rock evaluation	Kalkreuth, WD	ISPG	CG	СТ	NB NS	
	Obj: To assess kerogen type and degree of maturation by microscopical methods and correlate the results with org chemical data.						
	NTS: 11 E; 21 H,1						
770053 (2526)	Evaluation of Canada's Potential of Heavy Oil and Oil Sands Resources	Raicar, M	ISPG	PRAS	-	Alta Sask	
	Obj: To determine the extent of in-place resources; to evaluate various EOR processes to recover these resources; to determine the recoverable portion of these resources; to evaluate the impact of international and national price changes on the recovery of these resources in Canada.						
770054 (2562)	Sample preparation and mineral separating	Delabio, RN	EGM	MC	Min	-	
	Obj: To provide sample preparation and mineral-separating services in support of Branch projects.						
770055* (2561)	western part of the Canadian Shield	Roscoe, SM	EGM	EG	RMS	<u>Mack</u> Kee Man <u>Sask</u>	
	Obj: To provide a metallogenic basis for the evaluation of the mineral resources of the northwestern part of the Canadian Shield.						
	NTS: 46; 55; 56; 64; <u>65</u> ; <u>66; 74; 75; 76; 85; 86</u>						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
770060 (2552)	Environmental assessment of coal resource development, Canadian Cordiller	Jackson, LE a	TS	-	GPEG	Alta BC	
	Obj: Assessment of the geologic and hydrologic impact of open pit coal mining and emplacement of coal spoil and the investigation of geotechnical problems attendant with the reclamation of lands disturbed by coal mining operations in the Canadian Cordillera.						
	NTS: 82 G,J; 83 C,E,F,L; 92 I						
770063* (2561)	Geology of Lead and Zinc resources of Canada – II	Lydon, JW	EGM	EG	MDG	Yk Mack Que Man Frank <u>Nfld</u>	
	Obj: 1. Support or provide geologically based estimates of Canada's resources of these commodities. 2. Provide guidelines for their discovery. 3. Provide advice to government for mineral policy and related matters.						
770067 (2526)	Canada Oil and Gas Pool data base-file	Skibo, DN	ISPG	PRAS	-	-	
	Obj: To incorporate and maintain a data base of all parametric data relevant to the accumulation and exploitation of oil and gas pools in western, frontier and offshore regions of Canada. To provide a data base suited to reserves calculation, resources estimation, input to economic (costing and project development) studies and for application of and research on statistical methodologies for the evaluation of undiscovered hydrocarbon resources potential in all petroliferous regions of Canada.						
770068 (2523)	Petroleum Evaluation of Mainland Territories	McMillan, NJ	ISPG	PG	PR	Yk Frank	
	Obj: To provide a reliable and adequate data base for assessment by the Geological Potential Subcommittee of the project's hydrocarbon potential. To document proven and potential hydrocarbon occurrence in the area. NTS: 85; 86; 95; 96; 97 A,B,C,D,F; 105 P; 106 A,B,H-P; 107 A-E; 116 F-P; 117 A-D						
770071* (2561)	Geology of copper and molybdenum resources of Canada	Sinclair, WD	EGM	EG	MDG	NS <u>NB Frank</u> Que Ont <u>Kee</u> Yk BC Mack	
	Obj: The project is one of comprehensive research on the geology of copper and molybdenum deposits in order to: 1. support or provide geologically based estimates of Canada's resources of these commodities; 2. provide guidelines for their discovery; and 3. provide advice to government for mineral policy and related matters.						
	NTS: <u>104 0; 105</u> A, <u>B,C</u> ,D,F,M,O; 20 P; <u>21</u>	<u>G</u> ,J; 41 l; 42 C; <u>85 H,I,J</u>					
770072 (2543)	Geological Survey representative on Steering Committee of the Kremp Palynologic Computer Research Project.	Barss, MS	AGC	EPG	PBG	-	
	Obj: To represent the Geological Survey and present the views of GSC palynologists to the KPCRP Steering Committee with regard to the operation and management of the project.						
770077* (2522)	Paleozoic conodonts of eastern Canada	Nowlan, GS	ISPG	Р	OP	<u>Que Ont</u> Man Kee <u>NB</u> <u>NS</u> NfId	
	Obj: To describe and assess biochronological significance of early Paleozoic conodonts in order to refine method dating the rocks in which they are found.						
	NTS: 12 A,E,L; <u>11 E,F</u> ,K; <u>22</u> A, <u>B</u> ,C,G,H; <u>2</u>	<u> </u> A, <u>G</u> ,H,I, <u>L,O,P</u> ; 41 G,H; <u>3</u>	<u>l</u> C <b>,</b> F, <u>G</u>				
780001	Coal Resource Data Management	Mottershead, K	ISPG	CG	RE	-	
(2524)	Obj: To plan and conduct investigations of the methodologies for coal resource assessment in undisturbed and <b>Current Del metrops.</b> Westattish and maintain coal resource data computer files of various coal deposits in Canady of apply address develop computer programs for the analysis and display of geological data and the compilation of coal resource estimates.						
780002* (2552)	Glacial eroson of the Canadian Shield	Kaszycki, CA	TS	-	SMT	Kee <u>Ont</u> Que	
	<ul> <li>Obj: 1. To define and summarize ways of quantifying rates, depths and volumes of glacial erosion.</li> <li>2. Define parameters that are most influential in controlling glacial erosion on the Shield.</li> <li>3. To measure glacial erosion in selected test areas.</li> <li>4. To evaluate recently developed differences of opinion on efficacy of glacial erosion on the Shield.</li> <li>NTS: 55 E,L,K; 41 I; 21 E,L; <u>31 D</u>,E</li> </ul>						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
780003 (2523)	Petroleum Resource Evaluation of Western Canada	Osadetz, KG	ISPG	PG	PR	Aita BC Sask Man	
	Obj: To provide the geological-geochemical framework for the evolution of resource potential hydrocarbons in Western Canada. This includes the development of a regional framework and the study of specific relevant plays leading to the estimate of the probable extent of undiscovered resources.						
	NTS: 62 E,F,L,K; 72 E-P; 73 C,D,E,F,K,L,	M; 74 D,E; 82 H,I,J,O,P; 83	; 84; 93 1,	P; 94 A,B,G	-K,N,O,P		
780006* (2524)	Mineral Matter and Trace Element Content of Canadian Coals	Goodarzi, F	ISPG	CG	СТ	<u>Alta BC</u>	
	<ul> <li>Obj: 1. To determine if coal basins and seams within basins are specific in terms of mineral matter and trace element content.</li> <li>2. To enlarge the data base for the interpretation of the depositional regimes within coal basins.</li> <li>3. To relate mineral matter and trace element content to other compositional parameters.</li> <li>4. To provide a data bank on environmental and utilization aspects of these coals.</li> </ul>						
	NTS: <u>82 G,O,N</u> ; 83 A						
780008 (2531)	Macquoid Lake (W½), Thirty Mile and Tebesjuak Lake map-areas	LeCheminant, AN	Ρ	-	NC	Kee	
	Obj: To interpret the geology of the area to a standard of 1:250,000 mapping, and thereby update the geological data base to improve regional tectonic syntheses. To investigate the structure and metamorphism of Aphebian and Archean gneisses and their relation to the Dubawnt group cratonic cover.						
	NTS: 65 P (W½); 65 O (E½); 55 M (W½)						
780009 (2531)	Healey Lake map-area, District of Mackenzie	Henderson, JB	Ρ	-	BS	Mack	
	Obj: To determine the general structural metamorphic and age relations of rocks on each side of the Thelon Front in order to better understand the nature of the boundary between Slave and Churchill provinces. To evaluate the economic potential of the area and to map it at the scale of 1:250 000.						
	NTS: 76 B						
780011 (2531)	A survey of Metamorphism in the Canadian Shield	Froese, E	Ρ	-	PET	Man	
	Obj: To write a concise selective field oriented introduction to metamorphic petrology directed to geologists working in the precambrian Shield.						
	NTS: 63 J,K,N						
780012 (2531)	Stratigraphy and geochemistry of the volcanic rocks of the Circum-Ungava Belt	Baragar, WRA	Ρ	-	SP	Kee Que	
	<ul> <li>Obj: 1. To determine the petrochemical characteristics and the stratigraphic relationships of volcanic and related rocks of the Circum-Ungava Belt and to clarify the nature of their tectonic setting.</li> <li>2. To examine the relationships of sheeted dykes to associated volcanic rocks and plutonic complex in the Troodos ophiolite, Cyprus, with a view to understanding the mechanism of formation of the oceanic crust and its possible bearing on Precambrian volcanic belts.</li> </ul>						
	NTS: 44 I,P; 34 E; 35 C,F,K,L						
780015* (2572)	Disequilibrium in the uranium series	Dyck, W	RGG	RGC	ER	Sask <u>Ont</u> BC	
	Obj: To determine the usefulness of disequilibrium in the U series in predicting the existence of U mineralization. NTS: <u>31 F,G</u> ; 64 L; 74 I; <u>92</u> ; <u>102</u>						
780016* (2552)	Drift prospecting methods and models	DiLabio, RNW	TS	-	SMT	<u>Ont</u> Que Nfld Man	
	Obj: 1. To model glacial dispersal from known sources. 2. To develop drift prospecting methods for use in clay belts.						
	NTS: 14 D; 24 A; 23 J; 32 C,D; 42 C; 64 <u>B</u> ,C,F, <u>G; 42 A; 31 L; 63 A,H; 53 F,K,L,N</u>						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
780017 (2551)	Correlation of Quaternary geology; Great Lakes — St. Lawrence Valley region	Gadd, NR	TS	-	RP	Ont Que		
	<ul> <li>Obj: To resolve apparent age discrepancies in Pleistocene stratigraphic sequences of the lower Ottawa – upper St. Lawrence valleys and adjacent Lake Ontario basin. To provide a basis for regional compilation and synthesis of Quaternary geology in southern Ontario and southwestern Quebec.</li> <li>NTS: 31 B,C,F,G,H,L; 21 E,L,M</li> </ul>							
780018 (2552)	Surficial geology and Quaternary stratigraphy of north Baffin–Bylot Islands	Klassen, RA	TS	-	SMT	Frank		
	Obj: To provide information on the history and mode of deposition and the distribution and origin of Quaternary sediments in the northern part of Baffin Island and of Bylot Island, for use by environmental and development groups that may require knowledge of the area, and to provide data applicable to drift prospecting techniques.							
	NTS: 38 B,C; 48 A,D							
780019 (2542)	Ocean Dumping Consultation and Study	Forbes, DL	AGC	EMG	SG	Atlantic Offshore		
	<ul><li>Obj: 1. To provide advice to government departments concerning the feasibility of disposal of materials in the marine environment.</li><li>2. To test various techniques and procedures for detecting and monitoring the impact of ocean dumping.</li></ul>							
	NTS: 21; 22	cedores for defecting and	monitorii	ig me impo	ci or ocedi	i domping.		
780021 (2542)	Landsat Calibration for Suspended Sediment Concen- tration in Marine Coastal Environments	Amos, CL	AGC	EMG	SG	-		
	<ul> <li>Obj: 1. To initiate cooperative research between A.G.C., C.C.R.S. and other marine agencies abroad, with a view to extending a calibration of Landsat radiance vs. suspended sediment concentration. Originally applied to the Minas Basin.</li> <li>2. To extend the Minas Basin calibration.</li> <li>3. To relate the available Seasat program to Landsat measures.</li> </ul>							
780022 (2542)	Seaiment Dynamics at the Head of the Bay of Fundy	Amos, CL	AGC	EMG	SG	NS NB		
	<ul> <li>Obj: 1. To determine the mass input, transfer and removal of sediments to Chignecto Bay, inclusive of Shepody Bay and Cumberland Basin.</li> <li>2. To develop a numerical model to assess the affects of a Fundy Tidal Power Development on the distribution and accretion of sediments.</li> <li>3. To formulate a methodology of assessing the implications of marine constructions on sediments in macrotidal regions.</li> <li>NTS: 21; 11</li> </ul>							
780024* (2572)	Analytical control and standardization	Lynch, JJ	RGG	RGC	SDS	Ont Que NB		
	<ul> <li>Obj: 1. To obtain sample preparation and a variety of analytical services from commercial sources under contract for subdivision and RGR.</li> <li>2. To provide analytical methodology, the use of which will permit the acquisition of accurate, precise and regionally compatible analytical data for the subdivision and RGR surveys under Federal, Provincial, and MDA jurisdiction.</li> <li>3. To provide various types of international geochemical reference samples and to provide certified values for a large number of elements for these samples.</li> </ul>							
780025 (2531)	Archean Rocks of the Nain Province in Hopedale (13 N), Snegamook Lake (13 K), and Makkovik (13 O) map-areas, Labrador	Ermanovics, I	Ρ	-	SG	Nfld		
<ul> <li>Obj: 1. To produce maps (suitable for publications at 1:100,000) and comprehensive reports on the geoleconomic mineral potential of the Archean rocks in these areas.</li> <li>2. To monitor, compile and synthesize results of the geological mapping of Labrador to be carried out u Canada – Newfoundland Mineral Development Subsidiary Agreement.</li> <li>NTS: 13 N,K,O</li> </ul>								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
780026 (2550)	Quaternary paleo-sealevel map of Canada	Pelletier, BR	TS	-	SP	-		
	Obj: To produce a synthesis of sealevel phenomena for the Quaternary period.							
780027* (2512)	Coastal Geology and processes of British Columbia	McLaren, P	С	-	PMG	BC		
	Obj: 1. To analyze the coast of British Quaternary/tectonic evolution.		-					
	<ol> <li>To utilize the data base for oil coastal recreation.</li> </ol>	spill contingnecy planning	and clea	anup, coasta	al industric	al management and		
	3. To research the meaning of grain models fundamental to the unders					to establish process		
	NTS: 103 G							
780028 (2511)	Detailed Geological study of selected areas within the Foothills and Rocky Mountain Belts of the Monkman Pass map area – with emphasis on the structure	Thompson, RI	С	-	CMG	BC Alta		
	Obj: To map at 1:50,000 scale: map sheet as a data base for the preparation of				areas 93 H	1/16 and 83 E/13W½		
	NTS: 93 H,I; 83 E							
780029 <sup>-</sup> (2522)	Mesozoic and Cenozoic Foraminifera of the Arctic Western mainland of Canada	McNeil, DH	ISPG	Ρ	MiP	Yk Mack		
	Obj: To establish the biostratigraphic di Arctic western mainland of Canada,							
	NTS: 95; 96; 97; 105; 106; 107; 115; 116; 1	17						
780032 (2561)	Lead isotopic studies on genesis of ore deposits	Thorpe, RI	EGM	EG	MDG	-		
	Obj: 1. To do lead isotopic studies of or these deposits.	e deposits in order to imp	prove our	understand	ing of the	age and genesis of		
	<ol> <li>To derive a lead isotope model th</li> <li>To coordinate the obtaining of le and the assignment of priorities f</li> <li>To aid members of the section in</li> </ol>	ad isotope analyses for the or such analyses.	members	s of the Min	eral Depos	its Geology Section		
780033* (2551)	Quaternary paleoecology, Great Lakes	Anderson, TW	TS	-	PG	Ont Que		
	Obj: To describe, analyze and explain un	consolidated deposits and	associate	ed organic r	emains in	the Great Lakes in		
	order to: 1. determine Quaternary stratigraph 2. identify processes operative in th 3. to provide background geological	e lakes during the Quatern	ary and t					
	NTS: 21 E; <u>31 B,C-F</u> ,G-L; 41 H-K							
780035 (2552)	Remote sensing applied to Quaternary geology and mineral tracing	Belanger, JR	TS	-	SMT	Yk Kee Que Frank Mack Ont		
	Obj: To evaluate the potential use of re Quaternary geology and mineral trac Quaternary geology and related terro	ing. To apply appropriate	processin	ig technique				
	NTS: 66 M; 67 A-C; 87 A-F; 88 A-B; 21 E	; 31 G						
780039* (2521)	Jurassic and Cretaceous Minnes Group, Alberta and British Columbia	Stott, DF	ISPG	RG	Μ	Alta <u>BC</u>		
	Obj: To describe the stratigraphic succes correlation of these strata, their I suitability as reservoirs for those fue	ateral variation, their po	ocument tentialiti	fossil flora es as sourc	and fauna; es of oil	; to provide data on and gas, and their		
	NTS: 83 E,L; 93 I,O,P; 94 B,G,J							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
780042 (2541)	Comparative studies of the continental margins of the Labrador Sea and of the North Atlantic	Srivastava, SP	AGC	RR	EAOG	Atlantic Offshore		
	Obj: 1. To delineate subsurface structure 2. To determine the transition from 3. To discuss the subsidence history structures.	the continental to oceanic	crust acı	ross the mar		t to the subsurface		
780045 (2552)	Debris flow hazard assessment methodology, alpine and northern upland areas	Jackson, LE	TS	-	GPEG	BC Alta		
	Obj: To identify and determine the relat debris flows in the Rocky Mountain transportation and utility facilities f	s (49°N-54°N), and to dev						
	NTS: 82 G,J,N,O; 83 C,D,E							
780047 (2573)	Computer Methods and Calibration	Carson, JM	RGG	RGP	RG	Sask Ont NB Alta		
	Obj: 1. To develop computer methods for 2. Develop data base for airborne, g 3. To standardize and coordinate the	round, laboratory and bore	hole gamı		trometric	data.		
	NTS: 21 G; 31 G; 73 B; 82 O,P							
780048 (2542)	Surficial Geology of Lomonosov Ridge, Arctic Ocean	Blasco, SM	AGC	EMG	SG	Arctic Offshore		
Obj: 1. To describe the morphology, structure and history of the surficial sediments of the Lomonosov Ridge in the vicinity of the EMR LOREX site (near North Pole). CURREN Jon NGOR MATTIONS Branch's LOREX to define continental (?) origin of Lomonosov Ridge. Norpday schnology and to gain experience in working on frozen seas. 4. To establish working contacts with other groups concerned with Arctic Ocean geology.								
780049 (2541)	Arctic Ocean: Seismic Refraction and Related Geophysical Measurements	Jackson, HR	AGC	RR	OBM	-		
	<ul> <li>Obj: To collect seismic refraction, reflection and related geophysical data in the Arctic Ocean and interpret them at both a regional and global scale to provide:         <ol> <li>a tectonic history of the Arctic;</li> <li>a model for development of slow spreading ridges and relationship to other spreading centres such as those in Baffin Bay and the Labrador Sea; and</li> <li>a crustal cross-section of the Eurasian Basin to be compared and contrasted to other basins.</li> </ol> </li> </ul>							
790002	Geochemical data processing	Lund, NG	RGG	RGC	SDS	-		
(2572)	<ul> <li>Obj: 1. To manage in digital form, all get</li> <li>2. To improve data management sup</li> <li>3. To produce open file material for</li> <li>4. To provide for the public information</li> <li>5. To provide special data processing</li> </ul>	pport for the subdivision. Federal RGR and provinci ation concerning all RGR su	al open f vrveys sin	ile releases	of geocher	nical data.		
790003* (2572)	Regional Geochemistry — Southern Cordillera	Ballantyne, SB	RGG	RGC	RR	<u>BC Yk</u>		
	Obj: 1. To develop and test geochemical of geological and surficial enviro 2. To assess the effectiveness of g and in appraising the resource po	nments in the southern Cor geochemical reconnaissance	dillera.					
	NTS: 104 M,N,O,P,I; 94 F,K,L; 105 B,C,D-	F,I,M; 92 O,P; 106 D; 115 I	P					
790004 (2572)	Geochemical Resource Evaluation Studies	Garrett, RG	RGG	RGC	ER	-		
	Obj: To develop, test and publish method for the purpose of resource evalue selecting appropriate methods of dat	ation and interpretation.	a and inte To assis	egrating the st other me	m with oth embers of	ner geoscience data the subdivision in		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
790005*	Quaternary geology, Mayo-McQuesten	Hughes, OL	TS	-	RP	Yk		
(2551)	Obj: To map, describe and explain the s data and knowledge of stratigraphy, land use planning, engineering and m	age and history of surficia						
	NTS: <u>105 M; 115 P;</u> 116 B,C							
790006* (2512)	Marine Delta Sedimentation, British Columbia	Luternauer, JL	С	-	PMG	BC		
	Obj: To provide geological/sedimentological data base for delta systems in coastal British Columbia for general land and waterfront planning and environmental management. NTS: <u>92 B,C</u> ,G; 103 G,H,I,J							
790007 (2511)	Geology of Nahanni map-area, Yukon and Northwest Territories	Gordey, SP	С	-	CMG	Yk Mack		
	Obj: To update geological mapping in Nahanni map-area with emphasis on the distribution of stratigraphic units of the economically important Road River Formation and Earn Group. NTS: 1051							
790008 (2511)	Stratigraphy, sedimentation, structure and tectonic setting of the Windermere	Eisbacher, GH	С	-	CMG	Yk Mack BC Alta		
CURRENT is the Circular principle of the condition of the condition and the condition of th								
	NTS: 115; 105; 95; 94 K; 93 1,0; 83; 82 K,N	1,0; 116; 106						
790009 (2531)	Kamilukuak Lake Map–area, District of Keewatin, N.W.T.	Tella, S	Ρ	-	NC	Kee		
	Obj: To map the bedrock geology of the placed on the Dubawnt Group rocks, NTS: 65 K,L; 66 H							
		<b>A</b>	(0.5.0	~~				
790013 (2524)	Relationship of reflectance to chemical rank parameters of western Canadian coals	Cameron, AR	ISPG	CG	CT	Sask Alta BC		
	Obj: 1. To establish reference curves re means. 2. To determine the relationship of	-						
	NTS: 62 F; 72 H,G,M; 82 G,H,J,O,P; 83 A,	C,E,F,G,M; 93 J,O,P						
790016 (2531)	Geology of the Helikian Sediments and Adjacent Gneisses, Fury & Hecla Strait Area	Chandler, FW	Ρ	-	PET	Frank		
	Obj: 1. To determine the internal stratig 2. To map the gneisses underlying strong radiometric anomalies.							
	NTS: 47 C,D,E,F							
790018* (2542)	Ice Scouring of Continental Shelves	Lewis, CFM	AGC	EMG	SG	Atlantic Offshore		
	Obj: To investigate the geomorphology of geology, oceanography and drift ice seabed in order to provide advice for	with a view to interpretin						
790019* (2542)	Environmental Geology of Deep Ocean	Buckley, DE	AGC	EMG	G	<u>Atlantic</u> Offshore		
	<ul> <li>Obj: 1. To investigate the capacity of quality under conditions of streexploitation.</li> <li>2. To participate in the Seabed Wastudies for the disposal of high let</li> <li>3. To participate in studies of the explorement.</li> </ul>	ress imposed by waste d orking Group of NEA in orc evel nuclear waste in the se	lisposal p der to ma eabed.	oractices an intan aware	nd resourc	ce exploration and		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
790022 (2524)	Stratigraphy and sedimentology of the Lower Cretaceous Gething Formation, Rocky Mountain Foothills, Alberta and British Columbia	Gibson, DW	ISPG	CG	CG	Alta BC			
	Obj: To describe the Lower Cretaceous stratigraphic succession; to collect samples for laboratory studies, and to collect fossil flora and fauna; to provide data on the origin, distribution and continuity of coal seams throughout the region; to attempt to determine criteria useful in determining the sub-environments in which the fluvial-deltaic sediments were deposited, and to eventually provide a regional geological model that will be of assistance in determining the potential coal resources of this and other regions.								
	NTS: 83 L; 93 I,J,O; 94 B,G								
790024 (2531)	Geology of the Foxe Fold belt (EAST HALF), Baffin Island	Henderson, JR	Р	-	NC	Frank			
	Obj: To establish the stratigraphy, structure and metamorphism of the Aphebian sedimentary, volcanic and plutonic rocks in the Piling Group and their relationship to the rocks of the Mary River Group. The structural evolution of Archean "gneiss domes" in the area is also to be studies, and the economic mineral resource potential of the region evaluated.								
	NTS: A,B,C,D								
790025 (2531)	Petrology, mineralogy, geochemistry and mineral potential of a Helikian non–orogenic granitic suite in central Labrador and adjacent Quebec	Emslie, RF	Ρ	-	PET	Nfld Que			
	Obj: To improve understanding of the conditions and processes that control concentrations of U, Sn, Be, W and Mo in non–orogenic granitic suites.								
	NTS: 32; 22; 12								
790027 <sup>-</sup> (2551)	Quaternary stratigraphy Yarmouth region, Nova Scotia	Grant, DR	TS	-	RP	NS			
	Obj: To document the Quaternary stratign NTS: 11 E,F; 21 H	aphy of the southeast coast	t of Nova	Scotia in th	ne vicinity	of Yarmouth.			
790029 <sup>-</sup> (2531)	Gneissic basement to the Fury and Hecla Formation and the Autridge Formation	Ciesielski, A	Р	-	SG	Frank			
	Obj: To map the basement gneisses adjac Island at a scale suitable for publice relationships and the relationship of b	ition at 1:100 000 or 1:250	000. En	n <mark>phasis to</mark> k	Autridge Fo be placed o	ormation on Baffin on basement cover			
	NTS: 47 D,E,F								
	Geology of Nelson Map-area E/2	Reesor, JE	С	-	CMG	<u>BC</u>			
(2511) C	NOTO AVAL ABLE00 synthesis of NTS: 82 F, E%	n area to current require rk in the late 1930's. f stratigraphy, structure, r	ments er netamorp	nbodying n hism and m	ew field w ineral depo	vork and scattered			
790031	Geology of the Beaufort	Dixon, J.	ISPG	RG	Μ	Mack Frank			
(2521)	Mackenzie Basin					Yk			
	<ul> <li>Obj: 1. To integrate all available geological, biostratigraphic, geophysical, and geochemical data for the Tertiary in the Beaufort-Mackenzie Basin, in order to develop a stratigraphic-sedimentological framework and an appreciation of the petroleum potential.</li> <li>2. Undertake detailed stratigraphic, sedimentological and petrographic analysis of selected zones within the Cretaceous and Tertiary in order to understand reservoir character and distribution.</li> <li>3. To do detailed correlations of Lower Cretaceous-Upper Jurassic rocks in the subsurface, set up a stratigraphic framework and do sedimentological interpretations.</li> </ul>								
	NTS: 97 C; 107 B; 106 M; 117 A; 116 G,I								

NTS: 97 C; 107 B; 106 M; 117 A; 116 G,I

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
790033* (2572)	Geochemistry of Mineral Occurrences and their Host Rocks in the Northern Cordillera	Goodfellow, WD	RGG	RGC	RR	<u>Yk</u> Mack			
	<ul> <li>Obj: Through geochemical studies, to assist in determining: <ol> <li>the origin of selected mineral occurrences;</li> <li>criteria which can be used in the exploration for new and possibly deeply buried mineral deposits;</li> <li>geochemical methodology for the identification and differentiation of stratigraphic units, thereby assisting in stratigraphic correlations; and</li> <li>the evolution of marine environment during the Phanerozoic.</li> </ol></li></ul>								
	NTS: 105 F,1,0								
790034* (2574)	Shallow Seismic	Gagne, RM	RGG	RGP	TG	<u>Ont Que</u> <u>BC</u> Alta			
	Obj: To map the velocity structure of so site analyses.	urficial deposits by engined	ering seis	mic method	ls for geol	ogical mapping and			
	NTS: <u>31</u> F, <u>G</u> ,H, <u>I</u> ,K; 82 E; <u>84 A; 93 G; 42 A</u>	; 91 G; 92 G							
790036* (2544)	Sediment Dynamics Monitor (Ralph)	Heffler, DE	AGC	PS	-	Atlantic Offshore Arctic Offshore			
	Obj: To design, build and test an instrument to investigate the dynamics of sediments in water depths ranging from a few metres to 200 M for bottom durations of up to 45 days.								
790037 (2544)	Ocean Bottom Seismometers at A.G.C.	Heffler, DE	AGC	PS	-	-			
	GURRENT, INFORMATION the Ocean Bottom Seismometer (OBS) system now in use at AGC. Future another Ail Appropriate release, better tape recorders, study of seismic coupling and response problem, improved playback facilities and other improvements which are agreed to be important. Also, to maintain existing OBS's.								
790038* (2521)	Middle and Upper Devonian Rocks in east-Central B.C. and west-central Alberta	Geldsetzer, HHJ	ISPG	RG	Μ	BC Alta			
	Obj: To establish and apply conceptual paleogeography, their subsequent die		e origina	l sediemnts	in terms	of environment and			
	NTS: 83 C,E,L; 93 H,I,O								
790041	Lardeau map-area, B.C.	Wheeler, JO	С	-	CMG	BC			
(2511)	Obj: To complete terminal report and related geological, structural and mineral deposits maps and structure sections for publication at 1:250,000 scale.								
	NTS: 82 K (W½)								
790042 (250)	Stratigraphy, structure and Tectonics; Innuitian Fold Belt, Ellesmere Island, N.W.T.	Okulitch, AV	DGO		SP	Frank			
	Obj: To map and describe structures of t of that part of the belt on Ellesmere		e fold bel	t, their evo	lution and	the tectonic history			
	NTS: 49 A,B,C								
790044	Nahanni IMPP – Coordinator	Reesor, JE	С	-	CMG	Yk			
(2511)	Obj: To provide coordination for particip CURRENTRONFORMATIONS disciplinary studies are undertaken internation and office investigation systematic mapping.	rficial deposits, geochemis	stry and	mineral dep	posits to e	ensure that various			
	NITC. LOS I								

NTS: 105 I

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
80000 * (2552)	Quaternary geology and terrain inventory, Nahanni-Sheldon Lake- Finlayson Lake	Jackson, LE	TS	-	GPEG	<u>Yk</u> Mack			
	Obj: To map, describe and explain the surficial deposits, terrain conditions, active geomorphic processes an Quaternary history with specific reference to the significance of Quaternary geology for mineral exploration.								
	NTS: <u>105</u> I,J(S½),G, <u>K</u>								
800005 (2531)	Metamorphism and structure in northeast Superior Province	Ciesielski, A	Р	-	SG	Que			
	<ul> <li>Obj: 1. To understand the geological evolution of the higher grade metamorphic region of the northeastern Superior Province, and in particular, the relationship between greenstone and granulite terrains.</li> <li>2. To contribute, through field studies, to compilation of a geological map at 1:1,000,000 scale for NTS 33.</li> <li>NTS: 33</li> </ul>								
800006* (2531)	Geology of Beechey-Duggan Lakes area	Frith, RA	Ρ	-	BS	Mack			
	Obj: 1. Map for 1:250,000 published scale 2. Understand the nature of the The 3. Produce final maps and a report.								
	NTS: Pts 76 F,G,H; 86 B								
800007* (2531)	Metamorphism in the Kisseynew Subprovince	Froese, E	Р	-	PET	<u>Man</u> Sask			
	Obj: To study the metamorphic zonation in the Kisseynew Subprovince, from the low grade margin to the granulite facies in the centre, and to determine its relationship to the development of alternating volcanic and sedimentary subprovinces.								
	NTS: Pts 76 F,G,H; 86 B; <u>63 K,N</u>								
800008 (2531)	Geology of the Baker Lake map-area	Schau, M	Ρ	-	NC	Kee			
	Obj: To refine and upgrade the 16-mile metavolcanics and Aphebian(?) met potential will be evaluated.	reconnaissance, with empha asediments, and relationsh	asis on th ip to gne	e structure issic and gi	and strati ranitic roc	igraphy of Archean ks. The economic			
	NTS: 56 D								
800009 (2531)	Geology of Fort Smith, District of Mackenzie	Bostock, HH	Ρ	-	BS	Mack			
	Obj: To complete mapping of Precambr Buffalo River (85 A).	ian rocks at 1:250,000 sco	ile in Foi	t Smith (7	5 D) and	east part of Little			
	NTS: 75 D, E½, 85 A(E½)								
800010* (2512)	Marine magnetic surveys	Currie, RG	С	-	PMG	Pacific Offshore			
	Obj: To measure and interpret the earth' of the geology and economic potenti		acific ma	argin of Car	nada to ext	tend our knowledge			
	NTS: <u>92</u> B,C, <u>D</u> ,E,F,G,L,K,M; 93 D; <u>102 A</u> ,	G <b>,H,I,J,O,P</b> ; 103 A,B, <u>C,F</u> ,G	,H,I,J, <u>K</u>						
800012 (2531)	Geology of Woodburn Lake map area, District of Keewatin	Fraser, JA	Ρ	-	NC	Kee			
	Obj: To upgrade the 16-mile geological r the stratigraphy and structure of the granitic basement. To assess the ec NTS: 56 E	Proterozoic(?) supracrusta	il rocks, a	in particula nd to deter	r to refine mine their	e interpretations of relationship to the			
000013		Duck on 141	D			Ont Our			
800013 (2532)	Vertical Movements of the Precambrian Shield	Buchan, KL	P	-	PMag	Ont Que			
	Obj: To determine vertical movements for The method is quantitative and woul Archean.								
	NTS: 23; 24; 34 C								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
800014 (2531)	Metamorphism of volcanic rocks,Crowduck Bay,Manitoba	Gordon, TM	Р	-	PET	Man		
	Obj: Conduct a detailed field and petrologic study of a belt of volcanic and associated sedimentary rocks in order to provide correlation criteria for mapping amphibolites and gneisses equivalent to volcanic belts and elucidate the chemical processes which limit the economic potential of metamorphic rocks.							
	NTS: 63 J,K,N,O,P; 64 A,B,C							
800015 (2542)	Coastal Morphology and Sediment Dynamics, Southeast and East Cape Breton Island, N.S.	Taylor, RB	AGC	SG	CGD	NS		
	<ul> <li>Obj: 1. To provide a map of shoreline features and sediment along SE and E Cape Breton Island.</li> <li>2. To examine two well developed barrier beaches with different aspect, geological setting and sediment availability in order to determine seasonal changes in beach-nearshore morphology and sediment characteristics and to document the historic changes and response of these beaches to changing environmental conditions.</li> </ul>							
	NTS: II F,G,K							
800018* (2574)	High Resolution Seismic (Equipment Development)	Pullan, SE	RGG	RGP	TG	<u>Ont Que</u> Man Alta <u>BC</u> Sask Yk <u>NS</u>		
	<ul> <li>Obj: 1. To develop new techniques for use with the engineering seismograph.</li> <li>2. To improve the reflection seismic resolution of shallow seismographs and test these improvements at various sites in Canada.</li> </ul>							
	NTS: 40 I,P; 30 M; 84 A; 93 G; 73 B; 83	<u>  G; 3  G;</u>    E; 82 L						
800019 (2551)	Surficial geology, Cobden area (Quebec part)	Fulton, RJ	TS	-	RP	Que		
	Obj: To map, describe and explain th (31 G 10) in order to provide a development and engineering con	eology and terrain inform	ation pertine	ent to agri	iculture, u	urban and industrial		
	NTS: 31 G 10 (Quebec part)							
800020* (2542)	The Recent Paleoclimatic and Paleoecologic Records in Fjord Sedime	Schafer, CT ents	AGC	EMG	Р	Que BC		
	Obj: To relate documented climatic record in unbioturbated fjord se view to the development of pred	diments recovered from dis	stinctive clir	natic regin	nes throug	es to the geological phout Canada with a		
	NTS: <u>22;</u> 2; 3; 11; 12							
800021 (2561)	Lead and zinc in carbonate rocks – joint research with Esso Minerals Canada	Sangster, DF	EGM	EG	SP	-		
	Obj: To obtain a better understand recognition of areas favourable information generally available.							
800022* (2511)	Stratigraphy and structure of Dawson, Larsen Creek and Nash Creek map areas	Thompson, RI	С	-	CMG	Yk		
	Obj: To update the 1:250,000 geolog stratigraphic and structural and Cordillera.	gic maps of Dawson, Lars lysis of the region and its	en Creek a bearing on	nd Nash C the geolog	reek as a ical evolu	framework for the tion of the northern		
	NTS: <u>116</u> A, <u>B,C;</u> 106 D							
800023 (2561)	Special assignments on eastern and northern Canada	Poole, WH	EGM	EG	SP	Que NB NS Nfld		
	Obi: To contribute to the mineral res	ource data base and the eva	luation of re	gional reso	urces.			

Obj: To contribute to the mineral resource data base and the evaluation of regional resources.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
800024 (2551)	Quaternary geology-terrain inventory, northwestern Manitoba	Dredge, LA	TS	-	RP	Man			
	Obj: Map, describe and explain the surficial materials and landforms, thermal conditions and active processes to provide knowledge of stratigraphy, age and Quaternary history and areal geologic data with particular reference to engineering construction and mineral exploration.								
	NTS: 64 J,K,N,O								
800027* (2552)	Sensitivity of surficial sediments to effects of acid precipitation	Kettles, IM	TS	-	SMT	Ont <u>Que</u> NB			
	<ol> <li>Obj: 1. To establish baseline data on natural variations of buffering capacities of surficial sediments, with respect to possible loading by acid precipitation in an area of predominantly non-carbonate bedrock.</li> <li>To establish magnitude of natural areal variation of chemical (trace and minor element) components that might be mobilized by loading by acid precipitation.</li> <li>To determine the extent that glacial dispersal has modified the physical and chemical properties of surficial sediments from those that would be expected based on bedrock lithologies alone.</li> </ol>								
	NTS: <u>31</u> B,C, <u>D,E,F</u> ,G, <u>K</u> ,L; 21 J,N,O; <u>41</u>	<u> А,Н</u>							
800028* (2511)	Eastern Margin of the Coast Plutonic Complex	Woodsworth, GJ	С	-	CMG	<u>BC</u>			
	<ul> <li>Obj: 1. To examine the stratigraphy, structure, and plutonism of the eastern Coast Plutonic Complex and to correlate metamorphic rocks with unmetamorphosed rocks to the east.</li> <li>2. To produce reports and geologic maps of Bella Coola (93 D), Terrace (103 I), Pemberton (92 J) and Nass River (103 O) map-areas.</li> </ul>								
	NTS: <u>92</u> J, <u>N;</u> 93 D; <u>103 H</u> ,I,J,P								
800029* (2511)	Geology of the Ashcroft and Hope map-areas	Monger, JWH	С	-	CMG	BC			
	Obj: To produce Geological maps of Ash	ncroft (92 I) and Hope (92 H	l) map-area	S.					
	NTS: <u>92 I</u> ,H								
800030* (2572)	lsotopic Geochemistry, Precambrian Mineralized Basins	Cameron, EM	RGG	RGC	-	Mack <u>Ont</u> Que			
	Obj: 1. Provide data on the distribution 2. Utilize these data to interpret 3. Develop methods of geochemic and (b).	the mineralizing processes.	•						
	NTS: <u>42 C;</u> 52 A; 41 I,J,K; 86								
800031 (2521)	Geological reconnaissance, southeastern margin of Franklinian Geosyncline	Christie, RL	ISPG	RG	AI	Frank			
	Obj: To improve understanding of the late Precambrian to lower Paleo Silurian events along the platfor Geosyncline.	zoic stratigraphy; to pro	vide better	understan	ding of la	te Precambrian to			
800033 (250)	Geology and Economic Minerals of Canada 6th Edition	Wheeler, JO	DGO	-	-	-			
	Obj: To coordinate the preparation of and thematic maps for publication	a new edition of Geology o by the end of 1988.	and Econom	ic Minerals	of Canada	and related charts			
800034 (2541)	Rift Processes and the Development of Passive Continental Margins	Keen, CE	AGC	RR	-	Atlantic Offshore Arctic Offshore			
	Obj: To investigate consequences (i.e. anomalies) of various processes	subsidence history, strat perhaps responsible for in	igraphy, cru nitial riftin	ustal thickn 1g. These	esses, hear processes	flow, and gravity include extension,			

anomalies) of various processes perhaps responsible for initial rifting. These processes include extension, intrusion, erosion and phase changes in the lower crust. Models of the processes allow predictions of the above observations which can be compared to real data. This allows elimination of models which do not fit the observations and hopefully will lead to a better geological model of the rift processes.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
800035* (2541)	Seismic studies of continental margins and ocean basins of the North Atlantic	Reid, I	AGC	RR	OBM	Atlantic Offshore		
	Obj: To study the deep crustal structure of passive continental margins. To combine seismic with other geological and geophysical data to infer the detailed geology across the ocean/continent boundary. By application to a variety of margins, to relate the geological structure to models of continental margin evolution.							
800036* (2542)	Stability and Transport of Sediments on Continental Shelves	Amos, CL	AGC	EMG	SG	<u>Atlantic</u> Offshore		
	<ul> <li>Obj: The scientific objectives of this proje</li> <li>to determine the sediment stabilack of experimental data in this</li> <li>to apply the above predictively activities, the differentiation of continental shelf;</li> <li>to develop a generalized, progrased iment stability at other shelf stability at other she</li></ul>	lity under waves and curr highly-disputed field; to problems related to f modern and relict feat mmed strategy for applic	ice scour tures and	ing of sea the dispe	oeds, offsh rsal of ma	ore oil production iterials across the		
800041* (2544)	Development of Vibrocorer/ Drill for Geotechnical, Geological and Engineering Studies	Manchester, KS	AGC	PS	-	-		
	Obj: To transfer the knowledge available at BIO in underwater rockcore drilling and vibrocoring to NORDCO Ltd. St. John's, Newfoundland that will lead to the development of an improved commercially available vibrocorer/Drill for Geotechnical, Geological and engineering studies in Canada.							
810003* (2573)	Evaluation of Two Deep Sounding E.M. Systems	Sinha, AK	RGG	RGP	TG	<u>NS</u> Nfld <u>Que</u> <u>Ont</u> Sask Man Mack		
	<ul> <li>Obj: 1. To evaluate and demonstrate the effectiveness of two deep sounding electromagnetic (E.M.) systems, Maxi-Probe and Geonics EM-37, for geological mapping (e.g. permafrost) and mineral exploration (e.g. base metals and uranium) purposes.</li> <li>2. To compare these two systems with other inductive sounding/mapping systems.</li> <li>3. To develop techniques for the interpretation of field data from these two systems and to establish new techniques for electrical exploration at large depths.</li> </ul>							
	NTS: 31 D,G; 41 A; 40 P; 107 C; 64 C; 71 I	,N,O; 30 M; 21 A; <u>42 A; 32</u>	F; 11 F					
810004 (2551)	Quaternary geology – terrain inventory, Frances Lake	Dyke, AS	TS	-	RP	Yk		
	Obj: To map, describe and explain the evolution of the area and to provide	landforms and Quaternary information relevant to lar	deposits nd-use pla	in order 1 anning and r	o understa nineral info	nd the Quaternary prmation.		
	NTS: 105 H							
810005* (2552)	Relationship of flood frequency and heavy metal uptake in growth rings of trees	Egginton, PA	TS	-	GPEG	<u>Ont</u> Mack		
	Obj: To develop and evaluate a proxy met	hod of determining flood f	requency	of rivers.				
	NTS: <u>31 F</u> ,K,L; 42 H,P							
810006* (2551)	Quaternary Geology, upper Fraser River Basin	Clague, JJ	TS	-	RP	<u>BC</u>		
	<ul> <li>Obj: To describe, map and establish the stratigraphy of unconsolidated deposits in order to: <ol> <li>reconstruct the upper Fraser River drainage development as an aid to explaining the distribution of placer deposits,</li> <li>provide information pertinent to forestry, land-use planning, urban and industrial development, and</li> <li>to determine the Quaternary history of the region.</li> </ol></li></ul>							
	NTS: <u>93 A,B</u> ,G,H							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
810007 (2551)	Quaternary geology-terrain inventory, western Victoria Island	Vincent, JS	TS	-	RP	Frank			
	<ul> <li>Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover, and undertake geomorphic process studies in order to provide areal knowledge of geology and terrain that will: <ol> <li>aid in the implementation of the Territorial Land Use Regulations;</li> <li>be pertinent to engineering construction, petroleum exploration and related activities;</li> <li>provide data relative to terrain sensitivity rating; and</li> <li>elucidate the Quaternary history of the region.</li> </ol> </li> </ul>								
	NTS: 87 A,C,D,E,F,G,H; 88 A,B,C,D; Pts of 77 B,C,F,G; 78 B								
810008 (2573)	Nuclear and Analytical Instrumentation	Bristow, Q	RGG	RGP	IRD	Ont			
	Obj: Adaptation of advanced technology, and development of new technology (both in-house and under contract) for improved acquisition of conventional geophysical and geochemical data and for the measurement of other new parameters which are not at present generally measured. Publication of results and/or licencing of products for the rapid and effective transfer of technology to industry.								
	NTS: 31 C,F,K; 40 P								
810009 (2573)	Remote Sensing Applications	Slaney, VR	RGG	RGP	RG	-			
(2373)	Obj: 1. To maintain up-to-date a Landsat imagery file for the use of the GSC staff and to be in a position to advise geologists adequately on the potentials and limitations of Landsat imagery in the solution of specific problems.								
	<ol> <li>To develop and to demonstrate new methods or to adapt existing methods in relation with the task of integrating imagery (satellite and airborne) with geochemical, geophysical and geological data for the purpose of geological mapping and/or mineral exploration.</li> <li>To evaluate geological applications of Synthetic Aperture Radar and to provide the Interdepartmental Committee on Space with requirements for RADARSAT project.</li> </ol>								
810010 (2521)	Detailed geological study of selected areas within the Foothills and Rocky Mountain Belts between Peace River and Smoky River with emphasis on structure	McMechan, ME	ISPG	RG	м	<u>BC Alta</u>			
	Obj: To map at 1:50,000 scale: 1. Northern area-map sheets 93 2. Southern area-map sheets 83 of 93   (SE corner) and 93 H across both areas, and the de	L (S.W. corner), 83 E (N.W (N.E. corner). As a data b lineation of coal bearing se	1. corner) and base for the	l in conjunc preparation	ction with 1 of struc	R.I. Thompson parts			
	NTS: <u>93 H(NE), 1(SW)</u> , 0/11-14; <u>83 E(N</u>								
810011* (2521)	Carboniferous stratigraphy and sedimentology of northeastern British Columbia and northwestern All	Richards, BC	ISPG	RG	Μ	BC <u>Alta</u>			
	<ul> <li>Obj: 1. Revision of the stratigraphic nomenclature of subsurface and surface Carboniferous stratigraphic units.</li> <li>2. To solve subsurface and surface stratigraphic problems.</li> <li>3. To determine the characteristics, distributions, and depositional environments of lithofacies in the surface and outcrop belt.</li> <li>4. To summarize region's Carboniferous depositional history.</li> <li>5. Evaluation of hydrocarbon potential.</li> <li>6. To tie in with Richard's work in S.W. District of Mackenzie (GSC 770043) and Bamber's work in N.E. B.C. (GSC 710022).</li> </ul>								
	NTS: <u>83 E</u> ,L,M,N; 84 C,D,E; <u>93 I</u> ,J, <u>O</u> ,F	2; 94 A,B,G,H,I,J,K,N,O,P; <u>8</u>	32 O <b>,</b> J						
810012 (2521)	Structural and stratigraphic studies of Northeast British Columbia	Taylor, GC	ISPG	PRAS	-	BC			
	Obj: To provide a synthesis of the g stratigraphic record.	eology of the northern Rocl	ky Mountains	in terms c	of the tect	tonic response of the			
	NTS: 93 1,0,P; 94 F,G,J,N,O								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
810013 (2521)	Syntheses of Mesozoic and Cenozoic rocks of Eastern Cordillera and Plains	Stott, DF	ISPG	RG	Μ	Man Sask Mack Alta BC Yk		
	Obj: To provide regional syntheses, including maps and correlations concerning sedimentary sequences, particularly of Mesozoic clastic sequences in Western Canada.							
810014* (2524)	Resource evaluation and geology of Canada's coal deposits	Hughes, JD	ISPG	CG	RE	<u>BC</u> Alta Sask		
	Obj: To conduct resource evaluation programs required for the National Coal Inventory and to recommend the office and/or field studies to be undertaken to meet the requirements of the inventory program. To acquire industry and provincial government data on Canada's coal deposits. To study the geological framework within which these coals occur. To provide authoritative advice to senior Departmental officials and to scientists in government and industry on the resource potential of Canada's coal deposits. To maintain an up-to-date knowledge of coal fields in Canada.							
	NTS: 83 A,G,H,I,J; 93 O,P; 72 F,G,H; 62 E;	<u>82 G</u>						
810015 (2524)	Evaluation of Liquefaction Potential of Iow rank coals and peats	Kalkreuth, W	ISPG	CG	СТ	-		
	<ul> <li>Obj: Determine the composition of raw coals and their liquefaction residues to give insight into: <ol> <li>the efficiency of the liquefaction process in converting the coal;</li> <li>behaviour of the different micro-components of coal during liquefaction;</li> <li>the relationship between liquefaction yields and the petrographic composition of feed coal;</li> <li>the occurrence and behaviour of mineral components during liquefaction; and</li> <li>the utilization of residues from liquefaction processes.</li> </ol> </li> </ul>							
810016 (2521)	Paleozoic stratigraphy of central and southern Ellesmere Island and northern Devon Island	Mayr, U	ISPG	RG	AI	Frank		
	Obj: Investigation of Cambrian to Devon Island and northeastern Devon Island mapping program.							
	NTS: 59 A; 49 A,B,C,D,E,F,G,H							
810017 (2521)	Middle and Upper Devonian rocks in the subsurface of west-central Alberta	Meij <b>er-Drees,</b> NC	ISPG	RG	Μ	Alta		
	Obj: To establish the depositional enviro diagenesis for the purpose of correlo Middle and Upper Devonian sediment	ting the depositional fram	ework (se	dimentolog	ical history	y) with that of the		
	NTS: 83 B,C,E-G,J-N							
810018 (2524)	Regional Coal Rank Variations in the Kootenay Formation and their relationship to the structural history of the Southern Canadian Rocky Ma	Cameron, AR	ISPG	CG	СТ	BC Alta		
	Obj: 1. To delineate vertical and lateral the southern Rocky Mountains an 2. To utilize this and stratigraphic relative contribution to total load	d Foothills. c/structural data to intern	pret the	relative tir	ning of de			
	NTS: 82 G,J							
810019 (2524)	Regional coalification studies in the Minnes, Bullhead and Fort St. John Groups, N.E. British Columbia	Kalkreuth, W	ISPG	CG	СТ	BC Alta		
	<ul> <li>Obj: 1. To determine the regional coalif Groups in the foothills belt of nor</li> <li>2. To determine the petrographic or and utilization and on depositionor</li> <li>3. Coal rank data and petrographic period</li> </ul>	theastern British Columbic omposition of coal seams in al environments of seam for	a and wes the region mation.	t central Al on to provic	berta. le further c	data on coal quality		
	NITS. 83 E. 93 I D							

NTS: 83 E; 93 I,P

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
810020 (2531)	Thrust-Fold Belt of Wopmay Orogen — Internal Zone	St-Onge, MR	Ρ	-	BS	Mack		
	Obj: To extend the study of metamorphis early Proterozoic continental margin		re resulti	ng from co	llisional or	ogeny affecting an		
	NTS: 86 E,F,G							
810021*	Externides of Wopmay Orogen	Hoffman, PF	Ρ	-	BS	Mack		
(2531) Obj: To extend the stratigraphic and structural study of an early Proterozoic passive continental marg destruction by collisional orogeny.								
	NTS: <u>86 H</u> ,I,J,M,O,P; <u>76 J,K</u> ,M							
810022 (2552)	Permafrost and ground ice map of Canada	Heginbottom, JA	TS	-	GPEG	Yk Mack		
	Obj: To compile a revised permafrost and ground ice map of Canada at a scale of 1:5M. NTS: 106; 107; 116							
810023 (2551)	Quaternary geologic compilation (EG–1 revision)	Fulton, RJ	ΤS	-	RP	-		
	Obj: 1. Prepare a volume describing the Quaternary geology of Canada. 2. Prepare a map depicting the surficial materials of Canada at a scale of 1:5 000 000.							
810024* (2561)	Metallogeny of the Baker Lake-Thelon region, N.W.T.	Miller, AR	EGM	EG	RMS	Kee		
	Obj: To determine the relationship of uranium and other mineralization to intrusive and extrusive igneous activity, metamorphism and sedimentary processes in the Archean basement and overlying Aphebian and Helikian rocks in the Baker Lake-Thelon region.							
	NTS: <u>66 A;</u> <u>56 D, J</u>							
810025 (2561)	Organization and preparation of mineral resources component of Economic Geology Series Volume 1 – 6th Edition	Thorpe, RI	EGM	EG	MDG	-		
	Obj: To produce descriptive-interpretative the regional geological accounts, and regional comparisons of the characte	l to produce summaries of	deposit	types, meto	ntegrated allogenic s	as appropriate with yntheses and inter-		
810028* (2511)	Conodont biostratigraphy and biogeography in the Canadian Cordillera	Orchard, MJ	С	-	CMG	<u>BC</u> Yk		
	Obj: To collect and document conodont framework for the interpretation of (	faunas and associated Cordilleran geological evol	biotas to ution.	o provide d	and refine	a biostratigraphic		
810029 (2511)	Micropaleontological analysis of referred samples	Orchard, MJ	С	CMG	-	BC Yk		
	Obj: To provide microfossil-based relativ problems.	e ages to Cordilleran geo	logists fo	or their use	in the sol	lution of geological		
810031 (2541)	Evaluation of KSS-30 Sea Gravimeter	Loncarevic, BD	AGC	RR	OBM	Atlantic Offshore		
	Obj: To acquire, field test, and implement	operational use of the new	v sea gra	vimet <mark>er</mark> (Mo	odel KSS-3	0).		
810032 (2543)	D.S.D.P. Dinoflagellates	Bujak, JP	AGC	EPG	-	Atlantic Offshore		
	Offshore Obj: Establish a dinoflagellate zonation scheme for the Upper Cretaceous-Cenozoic of the Atlantic. Describe new CURTRENTY where glevant correlate and date this scheme relative to the standard plankton microfossil photo the standard plankton microfossil photo the standard plankton of taxa and photo the standard plankton of taxa and photo the standard plankton of taxa and photo the standard plankton of the standard plankton of taxa and photo the standard plankton of the standard plankton microfossil photo the stan							

photo the first and concerns and concerns and the stration of these distributions relative to the history of the Atlantic and related areas. Assess hydrocarbon source potential of sediments beneath the Atlantic using visual kerogen analysis techniques.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
810033 (2543)	Biostratigraphy of the Atlantic Shelf and Relevant areas	Davies, EH	AGC	EPG	SGBM	Atlantic Offshore			
Obj. 1. To assist in the petroleum inventory of offshore eastern Canada through furnishing a detailed chronostrati- CURRENT ADDIONINATION NOT A stablish develop and utilize the palynological zonations for the Mesozoic-Cenozoic of offshore eastern Canada and to compare these with other North Atlantic regions and the Arctic.									
810034 (2543)	Maturation Studies	Williams, GL	AGC	EPG	SGBM	Atlantic Offshore			
CUI	CURBENT INFORMATIONELS for maturation of the oragnic matter in east coast offshore wells, and hence NOTSAVAPLABLEI and gas provinces and prospective horizons.								
810035 (2543)	Taxonomy, Phylogeny and Ecology of Palynomorphs	Davies, EH	AGC	EPG	SGBM	-			
Obj: <u>Taxonomy</u> : To erect new palynomorph taxa and amend the diagnoses of existing taxa where necessary in east <b>CURREN</b> To only of Operation wells and relevant areas. <u>Phylogeny</u> : To describe evolutionary lineages of palynomorphs in order to microse prostratigraphic resolution and erect a phylogenetrically oriented zonation (phylozones) for <b>NOT</b> ea <b>A AILABLE</b> cology: To plot the ecological ranges of palynomorph taxa in order to help determine the paleoenvironmental history of the offshore eastern Canadian basins and other relevant areas.									
810036* (2542)	Morphology, sedimentology, and dynamics of Newfoundland coast	Forbes, DL	AGC	EMG	SG	Nfld			
<ul> <li>Obj: 1. To describe and interpret the geomorphology, sedimentary materials, and stability of the Newfoundland coast, with attention to problems of coastal resource management and oil-spill contingency planning.</li> <li>2. To investigate the sedimentary facies and physical processes characteristic of selected coastal types and, in particular, of gravel barrier and associated lagoon systems, for which little information is available.</li> </ul>									
	NTS: <u>  K,L,M,N; 2 C,D,E,F,M;    0,P;  </u>	<u>2</u> A <b>,</b> B <b>,</b> G <b>,H</b> ,I <b>,</b> M <b>,</b> P							
810037* (2541)	Surficial geology, geomorphology, and glaciology of the Labrador Shelf	Josenhans, HW	AGC	RR	EAOG	Atlantic Offshore			
	Obj: To gain an understanding of the post glacial sedimentary processes, hydrodynamic regime and iceberg dynamics across the Labrador Shelf; to define the style of glaciation across the shelf; to relate these findings to world wide glacial events; to determine the paleoceanography of the Labrador Sea; to map the surficial geology of the region between Hamilton and Saglek Banks; to assist the offshore industry by providing regional geological data and up-to-date synthesis; to determine the existence and density of seabed hazards.								
010020 *	NTS: 3; 13; 14		ISDC			E 1			
810038* (2522)	Palynology of Carboniferous, Permian and Triassic Rocks of northern and western Canada	Utting, J	ISPG	Р	MiP	Frank			
	<ul> <li>Obj: 1. To establish a palynological zo Canada and to apply this zonati</li> <li>2. Taxonomic description of palynomic</li> <li>3. Completion of related studies before joining the Survey.</li> </ul>	on to local, regional and wo ological taxa to provide ben	rldwide bi ch marks	ostratigrapl substantiati	hic correlaing the zon	tions. ation.			
	NTS: 560 A,D; 340 A,B,C,D; 59 E,H; 49 E	E,F,G,H; 78 G; 79 B; 88 H; 8	9 A						
810039* (2524)	Sedimentological studies of coal-bearing Upper Cretaceous and Paleocene formations, Alberta Foothills	Jerzykiewicz, T	ISPG	CG	CG	<u>Alta</u>			
	Obj: Establish the stratigraphic and se the Foothills of Alberta as a basis				and Paleo	ocene formations in			
	NTS: <u>83 B,O; 82 H</u>								
810040 (2541)	Surficial Geology and Crustal Structure of the Alpha Ridge, Arctic Ocean	Jackson, HR	AGC	RR	OBM	Arctic Offshore			
	<ul> <li>Obj: 1. To describe the morphology, vicinity of EMR CESAR site (84</li> <li>2. To describe the crustal structur</li> <li>3. To adapt and develop new techn</li> <li>4. To provide a base line survey samples of the Alpha Ridge.</li> </ul>	+°N 120°W); re of the ridge using OBSs ir nology in working in frozen s	n a refract seas;	ion experim	nent done j	ointly with EPB;			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
810041* (2542)	The physical behaviour of suspended particulate matter (spm) in natural aqueous environments	Syvitski, JPM	AGC	EMG	SG	Atlantic Offshore Arctic Offshore Pacific Offshore		
	Obj: To discover the physical forms and of for a variety of environments.	lynamic behaviour of spm	so that th	e vertical f	lux of spm	a can be understood		
	NTS: 21; 11							
810042* (2542)	Sedimentology of Fjords	Syvitski, JPM	AGC	EMG	SG	Que <u>Frank</u>		
(2342)	Obj: To complete a comprehensive study sedimentological history, and animal project) and Arctic fjords. NTS: 22							
810043* (2573)	Pore structure in crystalline rocks	Katsube, TJ	RGG	RGP	-	Man Ont		
	Obj: To develop methods to determine pore structure and radionuclide isolation capacity of various types of crystalline rocks. To apply these methods on rock samples from Pinawa, Chalk River, Atikokan and other Nuclear Fuel Waste Research areas.							
	NTS: <u>52 B,L; 41 J; 31 K</u>							
810044* (2551)	Quaternary geology-terrain inventory, Prince of Wales Island, King William Island and adjacent mainland Keewatin	Dyke, AS	TS	-	RP	<u>Frank</u> Kee		
	Obj: To map, describe and explain the ( evolution of the area and to provide NTS: 66 O,P; 57 B,C; 67 A,D,H; 68 A-D							
810045 (2541)	An Earth Science Atlas of the Continental Margin of Eastern Canada	Srivastava, SP	AGC	RR	EAOG	-		
	Obj: To provide a means of releasing info regional studies.	ormation generated or con	npiled by	AGC in a s	tandardize	d form suitable for		
810047* (2542)	Quaternary geologic processes on Continental slopes	Piper, DJW	AGC	EMG	-	Atlantic Offshore		
	Obj: To determine why different areas morphology and surficial geology; paleo-environmental configurations; and slope stability and the flux of sec	to relate this variability and to thus develop predic	to conter ctions on s	mporary an subsurface s	d Pleistoc surficial se	ene processes and		
810048 (250)	Canada–Nova Scotia Cooperative Mineral Program 1981–84	Poole, WH	DGO	-	-	NS		
	Obj. To ensure that the Cooperative Min designed and that the GSC componer				Mines and	Energy is properly		
820001* (2524)	Completion of outstanding Foothills mapping projects	Norris, DK	ISPG	CG	CG	<u>Alta</u>		
	Obj: To prepare for final publication geo Livingstone River (82J/1) and Beehiv							
	NTS: <u>82 G, J</u>							
820002 (2524)	Structural Geometry and Tectonic History of the Aklavik Range	(Bardoux, M)	ISPG	CG	CG	Mack		
	CURRENT was NEORED and Dearing NOTURA VAILABLE tential oil	re and tectonic setting of sequence and the importa and gas reservoirs beneath	Aklavik nce of mo the Mack	Range; ass ajor, strike enzie Delta	ess the eco -slip faults •	pnomic potential of in controlling the		

NTS: 106 M; 107 B

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
820003 (2541)	Geology of the Atlantic Margin: Canada	Williams, GL	AGC	RR	-	Atlantic Offshore			
	Obj: Preparation of a volume with the above title as a contribution to a 25 volume series on the geology of North America celebrating the decade of North American geology.								
820004 (2531)	Geology of Aberdeen Lake and parts of adjoining map areas, District of Keewatin	LeCheminant, AN	Ρ	-	NC	Kee			
	Obj: To interpret the geology of the area to produce a 1:250,000 geological map that will contribute to a regional geological synthesis. Emphasis is to be placed on study of Proterozoic volcanic-plutonic complexes and the stratigraphic and sedimentologic history of the Thelon Formation.								
	NTS: <u>66 A</u> ,B,C,F,G; Pts 65 O,N								
820005* (2532)	Paleomagnetism of Nipissing diabase and Abitibi dykes.	Buchan, KL	Ρ	-	PMag	Ont Que			
	Obj: To study the magnetic characteristic in order to establish the relative ages				I the rocks	which they intrude			
	NTS: <u>31; 32; 41; 42</u>								
820006* (2531)	Regional Geological Synthesis, Western Superior Province	Percival, JA	Ρ	-	SG	<u>Ont</u> Man			
	<ul> <li>Obj: To compile and synthesize, in the form of maps and reports, all geological work to date in NTS 52. To outline areas requiring more coverage or update and to evaluate potential problem-oriental studies in order to: <ol> <li>improve regional correlation;</li> <li>improve understanding of Superior Province tectonics; and</li> <li>to produce geological maps for publication at 1:1,000,000.</li> </ol> </li> <li>NTS: 52; 41</li> </ul>								
820007 (2531)	Deep Rose Lake and parts of adjoining map areas, District of Keewatin	Tella, S	Ρ	-	NC	Kee			
	Obj: To map the bedrock geology at a sca of the basement complex and that of Emphases will be placed on the st distribution and tectonic significance NTS: 66 B,F,G,H	the supracrustal rocks, ar tudy of cataclastic to m	nd to asso	ess the ecor	nomic pote	ntial of the region.			
820008 (2531)	Geology of Montresor River and Lower Hayes River map areas, District of Keewatin	Frisch, T	Ρ	-	NC	Kee			
	Obj: The mapping of the supracrustal Cha	ntrey Belt, its extensions a	nd its en	virons at a s	cale of 1:2	.50,000.			
	NTS: 66 l; Pts 66 P; 56 L,M,N								
820009	Hottah Terrane	Hildebrand, RS	Ρ	-	BS	Mack			
(2531)	Obj: To identify and characterize rocks of the Hottah Terrane, establish their relation to the Great Bear Magmatic Zone, and interpret their role in the Tectonic Evolution of Wopmay Orogen.								
	NTS: 86 D,E								
820010* (2531)	Precambrian Shield Volume "Decade of North American Geology"	Hoffman, PF	Р	-	BS	Alta <u>Sask</u> Man <u>Ont</u> <u>Que</u> Nfld			
	Obj: To produce an up-to-date volume (ap the Canadian Precambrian Shield, centennial project).								
	NTS: Pts 24; 52; 62; 63; 13; 31; 32; 41; 42								
820012 (2531)	Geological and geoscience studies in support of the Nuclear Fuel Waste Management Program	Ermanovics, I	Р	-	SG	Man Ont			
	Obj: To provide leadership and direction purposes of geoscience studies pertai	in scientific and technic ning to the NFWM Program	cal matte n.	ers to AECI	_ staff sea	conded to GSC for			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
8200 3 (250)	Meguma Gold in the Ecum Secum-Liscomb area, Nova Scotia	Henderson, JR	DGO	-	-	NS		
	Obj: To determine the origin and distribution in eastern Nova Scotia.	tion of gold mineralization	in deforr	ned metatu	rbidites of	the Meguma Group		
	NTS: Pts II D,E							
820014* (2511)	Stratigraphy and tectonics of the western margin of the southern Omineca Belt	Struik, LC	С	-	CMG	BC		
	Obj: To determine the stratigraphy, age and correlation of the rocks in the area underlain by the Snowshoe Formation and therefrom determine the stratigraphic and structural history of the western margin of the southern Omineca Belt. To determine the relationship of the contact of Quesnel Terrane with eastern rocks where they are mainly Snowshoe Formation and the correlation of the mafic meta-igneous(?) rocks at the contact.							
	NTS: <u>93 A,H</u> ,G; <u>83 D,G</u>							
820015* (2511)	Geology of Sheldon Lake (105 J) and Tay River (105 K) map area, east central Yukon	Gordey, SP	С	-	-	Yk		
	Obj: To update geological mapping and understanding of stratigraphy and structure in Sheldon Lake (105 J) and Tay River (105 K) map areas. Available preliminary edition geologic maps lack details useful in mineral exploration. An attempt will be made to extend the stratigraphy defined to the east in Nahanni map area (105 I) into these areas.							
	NTS: 105 J,K,L,P							
820016* (2511)	Geology of Skagway (104 M) map-area, British Columbia	Dodds, CJ	С	-	CMG	<u>BC</u>		
	Obj: To update geological mapping in Skagway (formerly Bennett) map-area. NTS: <u>104 M</u>							
820017* (2512)	The Geology of the Strait of Georgia	Hamilton, TS	С	-	PMG	BC		
	Obj: To examine and describe the geo sedimentology. To determine the r constituent basins particularly with in the Strait of Georgia as they relat	elative importance of gla respect to the late Cenozo	ciomarin bic. To de	e and tecto etermine the	nic proces e tectonic :	ses in shaping the sequence of events		
	NTS: <u>92 B,F,G</u> ,K							
820018* (2512)	Volcanic Rocks of the Insular Belt and Adjacent Deep Ocean	Hamilton, TS	С	-	PMG	BC		
	Obj: To examine the volcanic sequences of physical forms and depositional/ex mineralogy, geochemistry, petrology of each of the various volcanic units	trusive modes, age relati and genesis. To interpret	ionships the geol	with adjace ogic signifi	ent format cance and	ions, petrography, economic potential		
	NTS: <u>103</u> B,C, <u>F,G</u> ,I,K; 92 B,C,E,F,K,L; 102	21						
820020* (250)	Federal Mineral Program in Newfoundland 1982-84	Poole, WH	DGP	-	-	Nfld		
	Obj: To ensure that the Federal Mineral F properly managed and productive.	Program in Newfoundland is	s properly	v designed a	nd that the	GSC component is		
820021* (2573)	Borehole Geophysics Applications to Coal	Mwenifumbo, CJ	RGG	RGP	BG	<u>Ont NS</u> <u>Alta</u> Nfld Man		
	Obj: To improve borehole methods for the NTS: 12 A; <u>11 D</u> ,F,K; 63 K; <u>82</u> I, <u>O</u> ; <u>31 F</u> -G		of coal.					
820023 (2573)	Operation CESAR	Overton, A	RGG	RGP	TG	Arctic Offshore		
	Obj: To participate in a multidisciplinar origin of the Alpha Ridge, a major su	ry Canadian Arctic geosci Ubsea mountain range in the	ence exp e Polar Be	endition to asin,	investigat	ion the nature and		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
820024 (2571)	Magnetic Anomaly Maps of Canada	Dods, SD	RGG	RG	GDP	-		
	<ul> <li>Obj: 1. To produce a series of composite magnetic anomaly maps in colour at a scale of 1:1,000,000 to be issued by the Geological Survey of Canada.</li> <li>2. To produce a 5th edition of a 1:5,000,000 composite magnetic anomaly map of Canada (1255A).</li> <li>3. To compile a composite magnetic anomaly map of North America at a scale of 1:5,000,000.</li> <li>4. To provide a bank of digital aeromagnetic data.</li> </ul>							
820027* (2573)	Development of Regional Geophysical Data Processing and Interpretation Methods	Teskey, DJ	RGG	RG	GDP	-		
	Obj: To adapt digital data enhancement required, in relation with the general							
82003 I (2526)	Petroleum Resource Evaluation Interchange	Taylor, GC	ISPG	PRAS	-	-		
	Obj: To provide a firm basis for petroleum resource evaluation by the analysis of the geological setting and characteristics of hydrocarbon accumulations on a worldwide basis; by establishing and quantifying valid analogs applicable to Canadian basins; and by comparison of method and approaches to resource evaluation used by other governments.							
820032	Enchanced Oil Recovery Research	Raicar, M	ISPG	PRAS	-	-		
(2526)	Obj: To undertake research to better understand the technological phenomena related to enhanced oil recovery; to assist development of improved technology useful for field applications; to assist operators with new technology and encourage oil field developments and to estimate the potential of light oil which could be acquired through tertiary recovery applications. NOTE: some of the research indicated is outside the current mandate of GSC. However, GSC is acting as an agent of EMR/OERD to assist in contracting and supervising of this research.							
820033 (2521)	Stratigraphy and Sedimentology of the Mannville Group, Southern Alberta	Banerjee, I	ISPG	RG	Μ	Alta Man		
	<ul> <li>Obj: 1. Regional correlation of the Lower Cretaceous strata in southern Alberta.</li> <li>2. Construction of a facies model for the Mannville Group from stratigraphic and sedimentological data.</li> <li>3. Environmental reconstruction of the Mannville Group and delineation of the regional paleogeography of the period.</li> </ul>							
	NTS: 82 G,J,O; 83 B,F,L; 63 C,D							
820035 (2522)	Upper Mesozoic and Cenozoic Palynology of Western and Northern Canada	McIntyre, DJ	ISPG	Р	MiP	Yk Mack Frank Alta		
	Obj: To establish the biostratigraphic su Mesozoic and Cenozoic palynomorph Delta-Beaufort Sea area. NTS: 82 O,J; 97 C; 107 B,D; 117 A; 106 M;	hs of western and norther						
			70					
820038* (2552)	Comparison of geotechnical and geophysical properties of arctic seabed sediments	Kurfurst, PJ	TS	-	GPEG	<u>Mack</u> Frank <u>Yk</u>		
	Obj: Development of analytical techniq sediments to be made from availa hydrocarbon resources of the Beaufo	ble geophysical data, for	t predicti the purp	on of geote ose of aidi	echnical pr ng safer d	operties of seabed evelopment of the		
	NTS: Pts 107 C; 117 D							
820039* (2552)	Drift prospecting, east-central Labrador	Klassen, RA	TS	-	SMT	Nfld		
	Obj: To develop methods for determini glacial deposits.	ng the source of uranifer	ous bould	lers contair	ned within	or associated with		
	NTS: <u>13 E</u> ,F, <u>K,L,N; 14</u> D, <u>L,M</u>							
82004 I (2543)	Information Data Base, Offshore East Coast Wells	Williams, GL	AGC	EPG	-	Atlantic Offshore		
	Obj: To develop computer data base of a wells. To use the data base for hand comparison of data and directing the	lling queries by manageme	nt on reso	ources. To f	rmation on facilitate re	offshore east coast esearch by allowing		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
820043* (2544)	Coastal Environments and Processes in the Canadian Arctic Archipelago	Taylor, RB	AGC	EMG	SG	Frank		
	Obj: To map and analyze the coastal magnitude of processes affecting physical characteristics of shor- background information for the eve emergency, e.g. oil spill.	coastline stability across e types and the processes	the Arctic s affecting	Islands. To coastal st	o provide tability w	information on the hich will serve as		
820044* (2542)	Quantitative Quaternary Paleoecology, Eastern Canada	Mudie, PJ	AGC	EMG	Ρ	Atlantic Offshore		
	<ul> <li>Obj: 1. To quantify the relationship between present microfossil assemblages and the climate/oceanography of the eastern Canadian margins.</li> <li>2. To apply these quantitative data to analysis of past climatic and oceanographic conditions, e.g. Quaternary glacial-interglacial cycles.</li> <li>3. To correlate the E. Canadian paleoecological records and relate them to models of global ocean-atmosphere interaction during the Quaternary.</li> </ul>							
820046* (2542)	Sediment Dynamics and Depositional Processes in the Coastal Zone	Forbes, DL	AGC	EMG	SD	<u>ns,</u> NB PEI		
	Obj: To further our understanding of t zone; of the sedimentology of sedimentary systems.	the dynamics of sediment e coastal deposits; and of	ntrainment, long-term	transport, trends in	and depos the devel	sition in the coastal opment of coastal		
820048 (2524)	Temperature history of Lower Paleozoic rocks, determined by optical study of dispersed organic mate	Goodarzi, F rials	ISPG	CG	СТ	-		
	<ul> <li>Obj: 1. To determine optical and morphological character of dispersed organic materials (D.O.M.) in lower Paleozoic rocks.</li> <li>2. To examine vertical variation of D.O.M. in boreholes and determine the paleotemperature.</li> <li>3. To classify the D.O.M. of Lower Paleozoic rocks.</li> <li>4. To study the influence of a) time of burial (age), b) rate of subsidance (rate to heating), c) genera of specific D.O.M., d) petrological and sedimentological environment.</li> </ul>							
820050* (2542)	Near-Surface Geology of the Arctic Island Channels (NOGAP)	MacLean B	AGC	EMG	-	Arctic Offshore		
	<ul> <li>Obj: Through an integrated geological, geophysical and geotechnical research program to investigate and report on seabed geology of the Arctic island Channels, the nature and severity of geological constraints to development and contribute to development of technology related to these studies. Objectives include determination of: <ol> <li>Surficial sediment textures, distribution, thickness, geotechnical properties and other parameters in sufficiently many and varied areas as to have predictive capability elsewhere;</li> <li>Litho-, bio- and chronostratigraphy of surficial sediments;</li> <li>Principal contemporary sediment dispersal or modifying processes, e.g. ice scour, winnowing, slumping, faulting, permafrost;</li> <li>Nature of near surface bedrock;</li> <li>History of events and evolution of the channels;</li> <li>Technology development for geoscience studies in ice covered waters.</li> </ol> </li> </ul>							
82005†* (2561)	Metallogeny of marine environments, including active spreading ridges	Franklin, JM	EGM	EG	RMS	<u>Pacific</u> Offshore		
	<ul> <li>Obj: 1. In collaboration with other scientists to investigate and document seafloor sulphide and other metalliferous occurrences in Canadian waters, with particular emphasis on the Juan de Fuca-Explorer-Dellwood-Tuzo Wilson ridges and adjacent seafloors.</li> <li>2. To conduct research on hydrothermal systems and products in seafloor environments and to assist in the design, coordination and implementation of Canadian research programs in these areas.</li> <li>NTS: 91; 100; 101; 102</li> </ul>							
820052* (2561)	Metallogenic processes in sedimentary-diagenetic environments	Dunsmore, HE	EGM	EG	MDG	<u>Sask Man</u> Alta BC		
	CURRENTet INFORMATION	nmodities of economic into ly those operating in evap	erest are, poritic envi	or were, c ronments.	oncentrat An unde	ed by sedimentary- erstanding of these		

CURRENTet INFORMATION those operating in evaporitic environments. An understanding of these NOT sea variable for development of metallogenic models applicable to mineral exploration and resources evaluation.

NTS: 62; 72; 73; 82; 83

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.				
83000 * (2542)	Permafrost Processes in Arctic Beaches	Taylor, RB	AGC	EMG	SG	Frank				
	<ul> <li>Obj: To determine the thermal regime across Arctic beaches and the factors which affect it so that a numerical model can be designed to predict the depth of thaw using easily obtainable information, i.e. climatic data or sea water characteristics. Other objectives are to determine: <ol> <li>the effect of ice-bonded sediment on wave run-up, swash-backwash velocities and wave washover; and</li> <li>the formation, extent and duration of various types of ice features in Arctic beaches including anchor ice.</li> </ol> </li> </ul>									
830002 (2541)	Seismicity Studies of the Eastern Canadian Margin	Reid, I	AGC	RR	OBM	Atlantic Offshore Arctic Offshore				
	Obj: To investigate the detailed microseismicity of the passive margin: the level of activity, its spatial and temporal distribution, source mechanisms. This will allow better estimates of lithospheric stress distribution and strain rates, and may tell us something about margin evolution as well as the causative mechanism, be it deglaciation or something else. Knowledge of and understanding the seismicity on the continental margin is of course particularly important in view of possible seismic hazard to offshore hydrocarbon activity.									
830003 (2544)	Development and Implementation of Cable Handling and Maintenance Procedures	Manchester, KS	AGC	PS		-				
	<ul> <li>Obj: 1. To investigate methods of cable handling and maintenance techniques known.</li> <li>2. To develop a cable handling and maintenance program at AGC and implement it.</li> <li>3. To acquire equipment necessary to effeciently carry out program.</li> <li>4. To increase cable life by a factor of two or more, thereby saving money in the long run.</li> </ul>									
830004 (2523)	Diagenetic Profiles for Reservoir Exploitation – Frontier Basin Resources (OERD Project)	Foscolos, AE	ISPG	PG	GC	Atlantic Offshore Arctic Offshore				
	Obj: To establish geochemical parameters	s for drilling and exploitation	on of fror	ntier basin r	esources.					
830005 (2523)	Geological Modelling of Thermal History and Basin Development	McMillan, NJ	ISPG	PG	PR	Alta BC				
	Obj: To develop and refine techniques for histories of sedimentary basins, augmentation of other projects by m	This is to be done with	the view	/ that whe	rever poss	ible there will be				
	NTS: 83; 84; 93; 94	_			-					
830006* (2532)	lsotopic age determinations and radiogenic trace element studies of rocks and minerals	van Breemen, O	Ρ	-	G	BC				
	Obj: To precisely establish the chronolog the characterization of rock units in of rocks. To aid in the search for ec	order to further extend th	e criteria	for mappir	ig and to d	etermine the origin				
	NTS: 82 F,K,L									
830007* (2542)	Beaufort Sea Coast Obj: 1. To determine and map the physic	Forbes, DL	AGC	EMG	SG	Yk Mack				
С	2. To assess processes, sedimentary URRENTO INFORMATION coas NOTH search addition provide a sour	styles and rates of change	in this di	stinctive co	activities	such as addregate				
	NTS: <u>97 C,F; 107 B,C,D,E; 117 A,C,D</u>									
830008* (2531)	Displacement History of Major Shear Zones in Western Churchill Province	Hanmer, S	Ρ	-	SG	<u>Mack</u> <u>Sask</u>				
	Obj: To document displacement historic MacDonald-La Loche and Grease R mapping in Mackenzie and Keewa existing maps.	Black L. zones. To pro	ovide stru	uctural fran	nework fo	r on-going regional				
	NTS: <u>85 H; 75 E</u> ,L; <u>74 P</u>									

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
830009* (2531)	Structural studies in the Grenville Province of Ontario and western Quebec	Hanmer, S	Ρ	-	SG	Ont Que			
	<ul> <li>Obj: To examine the strain characteristics of major structural boundaries within the Grenville Province of Ontari and western Quebec, in order to determine kinematic sense and significance of possible differential movements To relate such kinematic data to current regional synthesis.</li> <li>NTS: 31; 41</li> </ul>								
830010* (2531)	Tinney Hills (76 J)-Overby Lake (76 I W½) map areas	Thompson, PH	Ρ	-	BS	Mack			
Obj: While mapping the geology of the Archean rocks at 1:250,000 scale emphasis will be placed on the petroge and structure of gneissic and migmatitic rocks and on the age, location and significance of the Thelon F tectonic zone, the boundary between the Slave and Churchill Structural Provinces.									
	NTS: <u>76</u> G, <u>1,J;</u> 66 L								
830011 (2523)	Thermal History and Basin Evolution – Canadian Frontier Regions	Skibo, DN	ISPG	PRAS	-	-			
	Obj: To predict the thermal regime as a or partially explored basins.	means of better defining th	he hydrod	carbon gene	rating pote	ential in unexplored			
830014* (2532)	Metamorphic Processes in the Kisseynew Sedimentary Gneiss Belt	Gordon, TM	Ρ	-	PET	<u>Man</u> Sask			
Obj: To determine the pressure-temperature history of selected areas in the belt for comparison with modern tector models.									
	NTS: <u>63</u> J,K, <u>N,O; 66 A,B,C</u> ,D								
830015*	Engineering geology of Canada	Evans, SG	TS	-	GPEG	-			
(2552)	Obj: To provide engineering geological a of Canada. To interpret the engineer Canada with respect to slope failur hazards and/or engineering projects	ring geological significance es or other natural hazard	e and per s. To as	formance of semble sele	various ge ected case	eological regions of			
830016* (2552)	Landslide hazard in the Canadian Cordillera	Evans, SG	TS	-	GPEG	<u>BC</u> Alta Yk Mack			
	Obj: 1. To document the occurrence of landslides in selected geological environments of the Cordillera. 2. To develop landslide mechanism models for slope hazard assessment in selected geological environments.								
	NTS: <u>82; 83; 92;</u> 93; 94; 95; 96; 102; 103; 1	04; 105; 106; 114; 115; 116;	; 117						
830017* (2551)	Surficial geology, north- central District of Mackenzie	St-Onge, DA	TS	-	RP	Mack			
	<ul> <li>Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover, and undertake geomorphic process studies of the NE¼ and part of NW¼ of 86 N in order to provide areal knowledge of geology and terrain that will: <ol> <li>elucidate the Quaternary history of the region;</li> <li>aid in the implementation of the Territorial Land Use Regulations;</li> <li>be pertinent to engineering construction, hydrocarbon transportation and related activities; and</li> </ol> </li> </ul>								
	NTS: <u>86 F,G,H,I,J,K,N,O,P</u>								
8300 8* (2551)	Quaternary geology, south- western Victoria Island	Sharpe, DR	TS	-	RP	Frank Ont Que			
	Obj: To complete a systematic study of composition, age, origin and history more detailed understanding of sed Island (eastwards). To compare land methods. To demonstrate application	of the Quaternary sedime iment-landforms for evaluation form-sediment mapping te	nts and t ition and chniques	their respect or mapping with recon	tive landfo of adjace naissance c	orms. To develop a nt areas of Victoria and landsat mapping			

methods. To demonstrate application of these studies to land-use planning, engineering route selection, mineral exploration and environmental analysis.

NTS: <u>77</u> B,C,D,E,F; <u>67</u> B,C,F; Pts 87 A,B,C,D,E,F; <u>31</u> C,D,G; <u>40</u> P; <u>41</u> A

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
830019 (2551)	Quaternary stratigraphy of the Beaufort Coast, Yukon and District of Mackenzie	Vincent, JS	TS	-	RP	Mack Yk Frank			
	Obj: To confirm the lithostratigraphy of the extensive suite of Quaternary sediments exposed along the Beaufort Sea Coast. To collect further samples for sedimentological and paleoecological studies in order to understand depositional environments. To collect samples for geochronological studies in order to ascertain the age of the sediments. This will help elucidating the Quaternary history of the area, enable regional correlations to be made and provide essential information for the EG-1 compilation.								
	NTS: <u>97 I-P; 107 A-H; 117 A-H</u>		0		<u></u>	50			
830020* (2511)	Penticton map area 82 E Obj: To study and map the geology of	Tempelman-Kluit, DJ	C	-	CMG	<u>BC</u>			
	progress reports and oral summar NTS: <u>82 E</u>		produce u t	comprehens	ive report	or me resorts, with			
830021 (2511)	The Cordilleran Orogen: Canadian Sector	Gabrielse, H	С	-	CMG	-			
	Obj: To produce a volume on the geology of the Canadian Cordillera dealing with its physiography, stratigraphy, structure, evolution, geophysical signature, mineral deposits and geology related energy resources. The volume will be one of 10 volumes on the geology of Canada as part of the Decade of North American Geology (DNAG) project sponsored by the Geological Society of America. It will also serve as part of Geology and Economic Minerals of Canada, 6th edition.								
830022* (2552)	Periglacial processes, Canadian arctic	Egginton, PA	TS	-	GPEG	Frank			
	<ul> <li>Obj: 1. To evaluate the distribution and relative importance of periglacial processes.</li> <li>2. To assess, on the basis of long-term observation and measurement the characteristics, rates and effects on the terrain of periglacial processes.</li> <li>3. To provide a national basis for evaluating natural and man-made hazards in the arctic environments.</li> </ul>								
	NTS: <u>77 D</u>								
830023 <sup>-</sup> (2551)	Quaternary history and surficial materials of north- western Baffin Island	Dyke, AS	TS	-	RP	Frank			
	Obj: To map, describe, and explain the evolution of the area and to provide the second t								
	NTS: 47 F,G; 48 B,C; 57 E,H; 58 A,D								
830024* (2551)	Quaternary geology, southwestern Saskatchewan	Klassen, RW	TS	-	RP	<u>Sask</u>			
	Obj: To establish the Quaternary lithostratigraphy and to describe and map the surface deposits in order to: establish criteria for recognizing units of different ages occurring at the surface; determine the probable location and extent of potential aquifers; and outline the distribution of materials derived from different sources and deposited at different times. The data obtained are critical to understanding the distribution and nature of soil parent material, to resolving long-standing controversies about the extent of glaciation at different times and to further defining the Quaternary framework as an aid to future studies and mapping in southern Saskatchewan.								
	NTS: <u>72 F,G</u>								
830025* (2552)	Quaternary stratigraphy, northern Ontario Lowlands	Shilts, WW	TS	-	SMT	Ont			
	<ul> <li>Obj: 1. To provide a basis for interpr regions.</li> <li>2. To provide a means for asses drift-covered area.</li> </ul>								
	NTS: <u>53</u> G,H,I,J,P; <u>43 B,F,L,K,N; 54 A</u>								
830026* (2571)	Abitibi Belt	Schwarz, EJ	RGG	RG	AI	Ont Que			
	Obj: 1. To deduce the general (deep) 2. To interpret these data in to extent of known zones or con	erms of intra-belt structure	es with par	ticular atte	ical and ge ention to t	ological data. he continuation and			
	NTS: <u>32; 42</u>								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
830027* (2524)	Petrographic Analyses of coals in the Saunders Group, Outer Foothills Belt, Alberta	Cameron, AR	ISPG	CG	СТ	Alta			
	<ul> <li>Obj: 1. Determine petrographic character of these coals and establish vertical and lateral changes in petrography.</li> <li>2. Determination of rank.</li> <li>3. Investigate possible correlation between petrography and rank changes with sedimentological studies of</li> </ul>								
	Jerzykiewicz. NTS: 82 O; 83 C								
830028 (2552)	Properties and distribution of permafrost and ground ice	Heginbottom, JA	TS	-	GPEG	Mack Frank Yk BC Alta			
	Obj: To provide information on the distribution, classification and properties of frozen soil and ground ice and their dynamic performance when disturbed.								
	NTS: 107 C; 96; 95; 85; 84; 94 J,K								
830029 (2531)	l:l 000 000 Map – western area of south Baffin Island	Taylor, FC	Ρ	-	SP	Frank			
	Obj: To compile a 1:1 000 000 scale map of NTS 36 — to form part of the 1:1 000 000 series of maps. NTS: 36								
830038 (2561)	Geomathematical applications the integration of geoscience in map data	Bonham-Carter, GF	EGM	EG	MAG	Yk			
	Obj: To integrate diverse types of map information: geological maps (incl. structure and stratigraphy), geophysical maps (aeromag., gravity, radiometric surveys), geochemical surveys (stream and lake surveys), satellite imagery (Landsat MSS digital data), mineral occurrences (from CANMINDEX and elsewhere). To develop and refine methods for quantitatively comparing and integrating map data from diverse sources. NTS: 1051								
830039	Marine Reflection Seismology of	Frydecky, II	С	_	PMG	_			
(2512)	the Western Canadian Continental Margin			-		-			
	CURRENTAGUIRE ON PORTAGUIRE OF THE OF	lection system with digital ution of the system for ea ficients resulting in sedime	system f sier and ent classi	for real tim more accur fication.	e processir ate geologi	ng and reprocessing ical interpretation.			
830040 (2512)	Portable Receiver for Trisponder Navigational System	Frydecky, II	С	-	PMG	-			
	Obj: To develop portable reserves for ac CURRENIETSINGUE MAISON of NOT is AVAILABLE al system.	curate positioning aboard : ffshore areas within a hyp	small boo erbolic n	ats and on f avigational	oot for de chain form	tailed surveying of ned by the existing			
830041 (2572)	Research and Development on the Analytical Methodology of Geological Materials	Gregoire, DC	RGG	RGC	AL	-			
	Obj: To provide for the analytical chemis GSC.	stry research and developm	nent requ	irements co	onsistent w	ith the aims of the			
830042 (2522)	Carboniferous and Permian biostratigraphy and conodont faunas, western and northern Canada	Higgins, AC	ISPG	Ρ	MiP	Alta Sask Frank			
	Obj: To establish the biostratigraphic succession, areal distribution, paleoecological significance, and taxonomy of upper Paleozoic conodonts, scolecodonts, and other selected microfossils of western and northern Canada, with particular emphasis on the Western Canada Sedimentary Basin and the Sverdrup Basin; to utilize microfossils as indicators of hydrocarbon maturation levels in host rocks.								
	NTS: 82 G,H,J,O; 78 G; 79 B; 62 K,L								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
830043 (2524)	Resource Evaluation and Geology of Coal Deposits of Western and Northern Canada	Smith, GG	ISPG	CG	RE	Alta Sask		
	Obj: To conduct resource evaluation programs required for the National Coal Inventory and to recommend the office and/or field studies to be undertaken to meet the requirements of the inventory program. To acquire industry and provincial government data on Canada's coal deposits. To study the geological framework within which these coals occur. To provide authoritative advice to senior Departmental officials and to scientists in government and industry on the resource potential of Canada's coal deposits. To maintain an up-to-date knowledge of coal fields in Canada.							
	NTS: 72 M,G,H; 62 E							
830045 (2542)	Quaternary Biostratigraphic Methods for Marine Sediments	Vilks, G	AGC	EMG	Ρ	Arctic Offshore Atlantic Offshore		
	<ul> <li>Obj: 1. Develop foraminiferal biostrati off eastern and Arctic Canada.</li> <li>2. Integrate biostratigraphy with paleomagnetic profiles of sedim</li> <li>3. Provide paleontologic sediment</li> </ul>	h independent dating thr nents.	rough C <sup>14</sup>	$, 0^{18}$ and	d amino	acid analyses and		
830049	Mine-assisted Enhanced Oil Recovery	Raicar, M	ISPG	PRAS	-	Ont		
(2526)	Obj: To undertake research to evaluate technical and economic feasibility of increasing oil recovery by gravity drainage via a mine shaft. To assess the EOR potential of conventional oil in depressurized oil fields and to evaluate the application of this technology in shallow heavy oil and tar sand reservoirs. This research project is outside the current mandate of GSC. However, the GSC is acting as an agent of EMR/OERD to assist in contracting, monitoring and evaluating this research.							
830050 <sup>-</sup> (2572)	Geochemical exploration technology in ultrabasic complexes	Maurice, YT	RGG	RGC	RR	Ont Que		
	<ul> <li>Obj: 1. To determine the favourability of ultrabasic complexes of various types throughout Canada to host Cu-Ni sulphides, platinum-group elements, chromite, and gold and silver deposits.</li> <li>2. To develop and refine geochemical exploration methods for these metals in different environments.</li> <li>3. To improve on the existing data base of platinum-group elements and other metals in various types of basic and ultrabasic rocks.</li> <li>NTS: 21 L; 52 H</li> </ul>							
830051	Geological Atlas of Canada	Okulitch, AV	DGO	_	SP	BC Alta		
(250)	Obj: To plan and organize the preparat the bedrock geology of Canada disp cross sections, interpretive maps o	ion of the Geological Atlas blayed in a series of 1:1 mil	of Canada llion scale		nsists of a	factual synthesis of		
	NTS: <u>Pts 82 H,L</u>							
830052* (2552)	Norman Wells pipeline – performance monitoring	Harry, DG	TS	-	GPEG	<u>Mack</u> Alta		
	Obj: To examine the actual impact of upon the geological environment of made during the assessment revier terrain sensitivity maps of the upp	f the upper Mackenzie Valle w phase for the pipeline; an	ey; to asses	is the accu	racy of pro	edictions of impacts		
	NTS: Pts of <u>84;</u> 85; <u>94; 95; 96</u>							
830053 (2544)	Data Inventory	Hardy, I	AGC	PS	-	-		
	Obj: 1. To provide an inventory of all d 2. To analyze existing forms of da 3. To compile information on the reports annually.	ita release and suggest new	or improve astal and o	ed methods offshore Ec	istern Car	nada and to prepare		
830054 (250)	Gaspé-Lower St. Lawrence Geoscience Program	Maurice, YT	DGO	-	-	Que		
	<ul> <li>Obj: 1. To coordinate the program of geoscientific studies under the Gaspé-Lower St. Lawrence initiative and to assist GSC Divisions in planning and delivery of the work, and to monitor progress.</li> <li>2. To develop and maintain appropriate contacts outside of GSC; to advise GSC management about factors affecting the program; to prepare such reports and other information as may be required by the Department and Central Agencies.</li> </ul>							
	NTS: 21 M,N,O; 22 A,B,C,G,H							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
830055*	Facies Models of Modern Turbidites	Piper, DJW	AGC	EMG	-	-		
(2542)	Obj: To contribute information on moder water sediments, in particular estal modern deep sea fans.							
830056* (2542)	Engineering Geology of the Atlantic Shelf	Lewis, CFM	AGC	EMG	SG	Atlantic Offshore		
	Obj: To assess the nature of seabed inst especially Hibernia and Sable Island r		onstraint	s to develo	pment on t	he Atlantic Shelf,		
	NTS: <u>1; 2; 3; 11; 14; 15</u>							
830057 (2542)	Temporal and Spatial Variation of Deep Ocean Currents in the Western Labrador Sea	Schafer, CT	AGC	EMG	Р	Atlantic Offshore		
	Obj: To trace the axis of the Labrador Sea Western Boundary Undercurrent (WBU) based on evidence of its occurrence inferred from high resolution acoustic methods. To map the paleoposition of deep ocean currents pathways in Tertiary sediments using reflection seismic sections with a view to explaining the paleocurrent regime of the Protolabrador Sea Basin.							
830058* (2572)	Groundwater Geochemistry in Mineral and Hydrocarbon Exploration	Boyle, DR	RGG	RGC	RR	<u>NS Ont Man</u>		
	<ol> <li>Obj: 1. Development of methods of exploration for concealed mineral and hydrocarbon deposits using groundwaters.</li> <li>2. To set up a quality controlled data base on groundwater chemistry to meet the necessary requirements of effective interpretation in mineral exploration and environmental studies.</li> <li>3. Studies of geochemical parameters affecting groundwater chemistry.</li> <li>4. Investigate the role of groundwater geochemistry in the formation of infiltration type mineral deposits and determine guidelines for exploration.</li> <li>5. Provide input into environmental studies.</li> <li>6. Provide input into the geothermal energy program.</li> </ol>							
	NTS: <u>21 A</u>							
84000}* (2551)	Surficial geology inventory — area of Anderson River map area	Vincent, JS	TS	-	RP	Mack		
	Obj: To map, describe and explain the undertake geomorphic process studie 1. aid in the implementation of the 2. be pertinent to engineering const 3. provide data relative to terrain so 4. elucidate the Quaternary history	in order to provide areal Territorial Land Use Regul ruction; ensitivity rating; and	knowledg	ns, permafr e of geolog	ost, and a y and terra	organic cover, and in that will:		
	NTS: <u>97</u>							
840002* (2551)	Surficial geology inventory – area south of Dolphin and Union Strait	St-Onge, DA	TS	-	RP	Mack		
	Obj: To map, describe and explain the undertake geomorphic process studie 1. aid in the implementation of the 2. be pertinent to engineering const 3. provide data relative to terrain s 4. elucidate the Quaternary history	es in order to provide areal Territorial Land Use Regul ruction; ensitivity rating; and	knowledg					
	NTS: 96 B, Pts 96 A,C; <u>87</u>							
840003* (2561)	Regional mineral resource assessment, northern Canada — II	Jefferson, CW	EGM	EG	RMRA	<u>Yk Mack</u> Kee Frank BC Alta Que		
	Obj: To conduct non-renewable resource activities including proposed nation genetic models of mineral occurrence	al parks and other conser	rvation a	reas. To a	contribute	to descriptive and		
	NTS: <u>23; 24; 46; 56;</u> 77; 78; <u>82;</u> 87; 88; <u>94</u> ;	<u>95;</u> 96; 97; 98; 105; 106						
840004* (2531)	Volcanic rocks of Kaminak Lake region, N.W.T.	Taylor, FC	Р	-	SP	Kee		
	Obj: To collate data gathered and partial	ly processed by Dr. R. Ridl	er and co	mpile it int	o a useful r	eport.		
	NTS: <u>Pts 55 E,K,L</u>							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
840005* (2531)	Artillery Lake map area, District of Mackenzie	Henderson, JB	Ρ	-	BS	Mack			
	Obj: To analyse and interpret geological data, acquired in the Artillery Lake area, leading to a geological description and development of geological models to be portrayed in a geological map and written report as part of a continuing program of activity in the Thelon Front region, the boundary between the Slave and Churchill Provinces.								
	NTS: Pts 75 0,P; 76 A,B								
840008* (2521)	Structure and Tectonics of Melville and Adjacent Islands	Harrison, JC	ISPG	RG	AI	Frank			
	<ul> <li>Obj: 1. Production of 1:250 000 scale geological maps.</li> <li>2. Structural and Tectonic analysis.</li> <li>3. Assessment of hydrocarbon and mineral resource potential.</li> </ul>								
	NTS: <u>78; 79; 88; 89</u> ; 98; 99								
8400 2* (256 )	Regional mineral resource assessment — northern Canada — I	Scoates, RFJ	EGM	EG	RMRA	Frank Mack <u>Kee</u>			
	Obj: To conduct non-renewable resource activities including proposed nationa				logeny for	land use planning			
	NTS: <u>46 (W%)</u> 77; 78; 87; 88; 95; 96; 97; 98								
840013* (2531)	Granulites of Northern Churchill Province	Schau, M	Ρ	-	NC	Frank			
	Obj: To study 2 new granulite terranes to provide field data on relations within and between high grade complexes and their country rock, as well as determine easily measured variables from samples on hand to provide geological, geophysical and geochemical constraints on models of high grade complex formation and/or emplacement.								
	NTS: <u>47 A,B,C,D</u>								
8400 4* (2552)	Characterization of ground ice occurrence in northern Canada	Harry, DG	TS	-	GPEG	<u>Mack</u> Frank <u>Yk</u>			
	Obj: To develop an understanding of the geomorphic and geological settings terrain performance in the permafro	and to develop models for t	quantitie the bette	es of ground r prediction	d ice deve n of ground	loped in a range of l ice conditions and			
	NTS: 107; 117 pts								
8400 5* (2541)	Seabed II	Fader, GB	AGC	RR	SBG	<u>Atlantic</u> Offshore			
	Obj: To assist in the joint PILP (NRC) E sonar, integrated geological and bar metres on the continental shelf and o	thymetric mapping system	d II, deep s designe	towed hig d to opera	h resolutio te to deptl	n seismic, sidescan ns of 500 and 2000			
840016* (2531)	Etudes des roches Archéennes et Protérozoiques dans la régon du Front de Grenville entre Chibougamau et Val d'Or, Québec	Ciesielski, A	Ρ,	-	SG	Que			
	Obj: 1. Reconnaissance des séries Archée 2. Etudes des styles structuraux de 3. Comparaison des contextes géolo 4. Chronologie absolue et relative d	part et d'autre de la ZTFG; giques de part et d'autre de	e la ZTFC	ī,		de Grenville);			
	NTS: <u>32 G,H,I,J</u>								
840017 (2541)	A.O.D.P. Site Survey, Labrador Sea	Srivastava, SP	AGC	RR	OAOG	Atlantic Offshore			
	Obj: To carry out detailed surveys over p and refraction, coring and heatflow as possible the bathymetry, basem these proposed sites.	measurements. The purpos	e of this	survey woul	ld be to mo	ap in as much detail			

these proposed sites.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
840018* (2561)	Comparative Regional Metallogeny	Poulsen, KH	EGM	EG	RMS	<u>Ont</u> <u>Man</u> <u>Sask</u> NS		
Obj: To determine the relationships between mineralization and the tectonic history of the host rocks in tectonostratigraphic domains; to contribute to descriptive and genetic models of mineralization and application to exploration and resource evaluation with particular emphasis o the central Canadian Shield.								
	NTS: 11; 42; 52; 62; 63; 64; 73; 74							
840019 (2521)	Stratigraphy, sedimentology and diagenesis of Lower Paleozoic rocks in the Northern Yukon Territory and in the region of the Mackenzie Mount Yukon Territory and Northwest Territoria		ISPG	RG	Μ	Yk Mack		
<ul> <li>Obj: 1. To establish a comprehensive formal stratigraphy for Lower Paleozoic strata of the Yukon Territory and establish correlations with the Lower Paleozoic sequence of Mackenzie Mountains.</li> <li>2. To determine the nature of locations of the shelf-to-basin transitions throughout the Lower Paleozoic sequence of the Northern Yukon Territory.</li> <li>3. To analyse the sequence of diagenetic events that affected this succession, and to assess the influence diagenesis on mineralization.</li> </ul>								
	NTS: 95; 105; 106 D,E; 116 H							
840020* (2531)	Paleomagnetism of Proterozoic igneous and sedimentary rocks of the Precambrian Shield	Fahrig, WF	Ρ	-	PMag	<u>Nfld</u> NB NS Que Ont Man Sask Frank Mack <u>Kee</u>		
Obj: To measure the paleomagnetism of igneous and sedimentary Proterozoic units of the Canadian Shield for use in determining the correlation of these units, their paleolatitude at the time of their formation, the relative movements of cratonic plates since the formation of these units and to contribute general information on the apparent polar wandering curve for the plates containing these units.								
	NTS: Pts 12-14; 21-27; 30-39; 40-49; 52-	58; 62-66; 73-78; 84-88; 9	7					
840021*	Study of Gaspé Granites	Whalen, JB	Р	-	PET	Que		
(2531)	<ul> <li>Obj: To improve existing maps of detailed petrochemical and petrologic sampling to establish:</li> <li>1. the various granite phases and their field relationships;</li> <li>2. the mineralogy and modal abundances in various phases;</li> <li>3. the bulk rock major and trace element compositions of units;</li> <li>4. the mineral phase compositions for magma modelling, and</li> <li>5. isotope and rare earth geochemistry.</li> </ul>							
	NTS: <u>Pts 22 A,B</u>							
840022* (2531)	Structure and petrology of the aureole of the Mount Albert peridotite	Currie, KL	Ρ	-	PET	Que		
	Obj: To determine the nature and struct the timing and mechanism of emp structural, thermal and geochemica NTS: 22 H/4	placement of peridotite, a						
840023* (2531)		Currie, KL	Ρ	-	PET	Que		
	Obj: To determine the tectonic-stratigr from the provenance, environment							
	NTS: <u>Pts 22 B</u>							
840024* (2531)	Geology of the Northern Long Range Mountains, Newfoundland and adjacent areas	Currie, KL	Ρ	-	PET	Nfld		
	Obj: To map and describe the metamor areas at 1:100,000 or more detailed mineral potential.							
	NTS: Pts 12 H,1; 2 E							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
840026* (2571)	Regional Interpretation of Gamma Ray Spectrometry	Charbonneau, BW	RGG	RGP	RG	Kee <u>Mack</u>			
	<ul> <li>Obj: 1. To prepare compilations of airborne gamma ray spectrometric data at scales of 1:1,000,000 and 1:5,000,000.</li> <li>2. To relate the regional radiometric compilations to other geoscientific data sets, and interpret the results in collaboration with mapping geologists, economic geologists, et al.</li> </ul>								
	NTS: <u>65 B,C; 75 D,E</u>								
840027	Technology Transfer	Collett, LS	RGG	RGP	-	-			
(2573)	Obj: To exploit geoscience technology f provide advice on developing geosci communicate these developments a	ience technology relevant	to industry	and other	governme	ce industry; also to nt agencies; and to			
840028 (2571)	*Applications of Gamma Ray Spectrometry	Ford, KL	RGG	RGP	RGG	<u>Ont</u> NB NS			
	Obj: To maximize the usefulness of airborne gamma ray spectrometric surveys as: 1. an aid to geological mapping; and 2. a multi-element exploration technique.								
	NTS: <u>31</u> C, <u>L;</u> 21 G,J; <u>11 D</u>								
840029* (2573)	Beaufort Sea Permafrost Geotechnics	Hunter, JA	RGG	RGP	TG	Mack			
(2373)	Obj: To develop and demonstrate a geophysical capability for evaluation of the nature and extent of permafrost in the Beaufort Sea onshore and offshore areas.								
	NTS: <u>107</u>								
840030* (2573)	Interpretation of Standard Geophysical Logs	Katsube, TJ	RGG	RGP	-	<u>Ont Man</u>			
	Obj: I. To develop and apply methods of Fuel Waste Management Program 2. To determine the physical prope 3. To determine rates of fluid and NTS: <u>31 K; 41 J; 52 B,L;</u> 62 I	m. rty distribution in rock ma	sses over o	listances of	kilometre				
840031*	Borehole Geophysics/Applications Development	Killeen, PG	RGG	RGP	BG	<u>Ont</u> Que <u>Man</u> NB, NS			
	Obj: 1. To develop and demonstrate the application of integrated borehole geophysical measurements in mineral								
	exploration and mining. 2. To determine methods to quantify these measurements, and to proceed with the requisite experimental development.								
	NTS: 41 J; 42 A; 52 L; 63 F; 20 O; 21 O,	<u>IIE</u>							
840032* (2572)	Lithogeochemical Studies, Gaspé Peninsula	Maurice, YT	RGG	RGC	RR	Que			
	<ul> <li>Obj: To provide systematic data on a regional scale, on the major and trace element geochemistry of bedrock units the Gaspé Peninsula. This will permit reconstitution of the evolution of the sedimentary succession, evaluate t degree of weathering which has affected these rocks, and help in the interpretation of surficial (stream, soil, ti geochemical data. All this information will ultimately lead to a better understanding of the distribution a concentration of economic minerals in the region.</li> </ul>								
	NTS: <u>22 A,B,G,H</u>								
840033* (2512)	Potential geologic hazards to development — seafloor and shallow subbottom of Queen Charlotte Sound, B.Q	Luternauer, JL C.	С	-	PMG	Pacific Offshore			
	Obj: Identify, describe and map sedimer and shallow subbottom (down to exploration and production on the C	~500 m below the seabed	d) which a	could affec	tential haz t the cou	ards on the seafloor rse of hydrocarbon			
	NTS: 102 1,0,P								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
840034* (2512)	Shallow seabed geology and geologic hazards, Hecate Strait and Dixon Entrance	Bornhold, BD	С	-	PMG	Pacific Offshore		
	Obj: To study seabed geological and geotechnical conditions, an understanding of which will be required in order to regulate oil and gas exploration and production activities and facilities in the area of Hecate Strait and Dixon entrance. The information would provide a data base by which later submissions from industry could be meaningfully and confidently assessed. The program would attempt to establish the regional seabed characteristics including substrate type, bedforms, mobility of seafloor materials, and geotechnical properties of the surficial materials. In addition, potential hazards to Offshore development, such as regions of slope instability will be identified and assessed.							
	NTS: 103 A,B,G,J,K							
840035* (2551)	Géologie du Quaternaire et géochimie des tills de la région Mont-Joli/La Rédemption, Québec	Veillette, JJ c	ΤS	-	RP	Que		
	<ul> <li>Obj: 1. Cartographier les formations er 2. Déterminer la répartition, la transport des matériaux.</li> <li>3. A l'aide des résultats de lab minéralisation.</li> <li>NTS: Pts <u>22 A,B,C,G,H</u></li> </ul>	hiérarchie et l'infuence re	elative de	es divers éc		-		
840036 (2541)	Digital single-channel seismic data acquisition system	Nichols, B	AGC	RR	OBM	Atlantic Offshore		
	Obj: 1. To improve the quality of seismic reflection data recording; 2. To enable application of digital processing techniques to reflection data; and 3. To enable optional plotting and playback of reflection data.							
840037	Magnetic Interpretation Techniques	Broome, J	RGG	RG	AI	-		
(2571) Obj: To develop new qualitative and quantitative methods for the geological interpretation well as the refinement, compilation and documentation of existing methods.						romagnetic data as		
840038* (2540)	Ocean Drilling Program: planning	Ross, DI	AGC	-	-	Atlantic Offshore		
	Obj: 1. To contribute effectively to the 2. To complete planning for drilli the Canadian Planning Committ	ng in the Labrador Sea and						
840039*	Evolution of East Coast Paleozoic Basins	Bell, JS	AGC	EPG	PBG	NS NB PEI		
	<ul> <li>Obj: 1. To obtain an understanding of offshore continental margins of</li> <li>2. To incorporate new data as they</li> <li>3. To use the data compilations an</li> <li>NTS: 11; 20; 21</li> </ul>	eastern Canada. / become available.			• •			
840040* (2571)	Aeromagnetic Survey Contract: Northwestern Baffin Island	Ready, EE	RGG	RG	CS	<u>Frank</u>		
(2371)	Obj: To provide adequate aeromagnetic stimulation to mineral exploration The contract entails the acquisiti medium sensitivity aeromagnetic d	in the area. on and compilation of appr	roximately	y 64,000 lir	ne kms. of			
	NTS: <u>48</u> A,B,C,D; 58 A,D							
84004 * (259)	Canada–Saskatchewan Mineral Development Agreement (ERDA)	Galley, AC	DGO	-	-	Sask		
	Obj: To coordinate ERDA supported, integration and completion.	GSC geoscience investigati	ons in Sc	ıskatchewan	to ensure	e their timeliness,		
840042* (259)	Canada-Manitoba Mineral Development Agreement (ERDA)	Galley, AC	DGO	-	-	Man		
	Obj: To coordinate ERDA supported, integration and completion.	GSC geoscience investig	ations in	Manitoba	to ensure	their timeliness,		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
840045*	Stellarton Basin Analysis	Yeo, G	Р	_	PET	NS	
(2531)	Obj: During the period 1984–1989 to revie of the Stellarton Graben and adjacer and metal (especially Cu, Pb and U) p	nt areas, to provide a base	ne geolog for asse	ical data on ssment of t	the late C heir coal,	Carboniferous rocks	
	NTS: <u>Pts II E</u>						
840046* (2511)	Geology of the Iskut River – Telegraph Creek, British Columbia	Anderson, RG	С	-	CMG	BC	
	Obj: To update geological mapping and increase understanding of volcanic and sedimentary stratigraphy, grani plutonism and structure and to provide details useful in mineral exploration. An attempt will be made to exte stratigraphy defined to the east and south of the region into the map areas.						
	NTS: <u>104 A,B</u> ,C,F, <u>G</u>						
840047 (2521)	Compilation of the geology of the Innuitian Region	Trettin, HP	ISPG	RG	AI	Frank	
	Obj: To produce a comprehensive report American Geology) series.	on the geology of the Inn	uitian re	gion as par	t of DNAC	G (Decade of North	
	NTS: 89 A; 120 C; 340 C,D						
840048*	Melville Project	Christie, RL	ISPG	RG	AI	Frank	
(2521)	<ul> <li>(2521) Obj: 1. Provide logistical and office support for preparation of improved maps and stratigraphic and structural understanding of Melville, Prince Patrick, and adjacent smaller islands.</li> <li>2. Prepare appropriate maps and reports for publication.</li> </ul>						
	NTS: <u>78; 79; 88; 89; 98; 99</u>						
840049* (2524)	Stratigraphy and sedimentology of the Lower Cretaceous Hulcross and Boulder Creek Formations, Rocky Mou Foothills, Alberta and British Columbia	Gibson, DW Intain	ISPG	CG	CG	<u>BC Alta</u>	
	Obj: To describe the Lower Cretaceous collect fossil flora and fauna; to pro Boulder Creek Formation throughout environments in which the marine-fl geological model that will be of assis	vide data on the origin dis t the region; to attempt to uvial-deltaic sediments we	tribution determir re deposi	and continu ne criteria u ted, and to	uity of coo useful in de eventually	al seams within the etermining the sub- provide a regional	
	NTS: <u>83 L,M; 93 I,O,P; 94 A,B</u>						
840050* (2561)	Metallogeny of Ultramafic and Mafic Rocks	Eckstrand, OR	EGM	EG	MDG	<u>Ont Que Man</u> Sask <u>Mack</u> NB	
	<ul> <li>Obj: 1. To increase the understanding of mafic rocks in Canada.</li> <li>2. To provide geological knowledge resources associated with such r vanadium, titanium and asbestos.</li> </ul>	e applicable in the explore tocks including nickel, cop	ation, dev	velopment,	exploitatio	on and appraisal of	
	NTS: <u>42 A; 52 E,L</u> ,H; 23 J; <u>63 K,O; 64 C; 7</u>	<sup>7</sup> 4 A; 75; 76; <u>21 B,G</u>					
840051* (2561)	Geological Evaluation and Remote Sensing (GEARS)	Rencz, AN	EGM	EG	MAG	<u>Ont Yk Que</u> <u>NS NB</u>	
	<ul> <li>Obj: 1. To initiate and develop remote se</li> <li>2. To develop programs/projects in i</li> <li>3. To assist in cooperative projects and planned projects.</li> </ul>	image analysis; and				sensing to existing	
	NTS: <u>31 C</u> ,F,J,K; 105 l; <u>11 D,E,F; 21 J,L</u>						
840052* (2572)	Heavy Mineral Studies, Eastern Townships	Maurice, YT	RGG	RGC	RR	Que	
	Obj: To evaluate the favourability for the elements on the basis of the disperso	e occurrence of economic on of heavy minerals in stre	deposits o ams.	of Au, Sn, V	V, Ba, Cr,	and platinum group	
	NTS: Pts 21 E,L; 31 H						

NTS: Pts 21 E,L; 31 H

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
840053* (2572)	<ul> <li>Heavy Mineral Studies, Gaspé Maurice, YT RGG RGC RR Que</li> <li>Obj: To evaluate the favourability for the occurrence of economic deposits of Au, Sn, W, Ba, Ta, Nb and other elements on the basis of the dispersion of heavy minerals in streams.</li> <li>NTS: Pts 22 A,B,G,H</li> </ul>								
840054 (259)	Asbestos Initiatives Program – Geoscience Surveys Eastern Townships, Quebec	Anderson, FD	DGO	-	-	Que			
	<ul> <li>Obj: To coordinate GSC geoscience investigations in Quebec that are supported by the Asbestos Initiatives Program to ensure their timeliness, integration and completion.</li> <li>NTS: Pts 21 E,L; 31 H</li> </ul>								
840055 (2573)	Rock Properties Laboratory Obj: To establish a rock properties laborat I. To provide physical rock property 2. To investigate physical rock prope	measurements in support of	RGG of other p onships.	RGP projects (e.g	BG • Borehole	- Logging).			
840056 (2541)	Potential Fields Data Base Operations	Woodside, J	AGC	RR	GP\$	NS Ont BC			
()	<ul> <li>Operations</li> <li>Obj: 1. Expansion and modification of EPB gravity data base to incorporate AGC gravity, magnetic and bathymetry data.</li> <li>2. Development of software for access, manipulation, and display at AGC of AGC data in the new National Marine Geophysical Data Base.</li> <li>3. Preparation and entry of all appropriate AGC geophysical data in the new data base.</li> </ul>								
840057* (2571)	Selected contract geophysical surveys in E. Townships, Quebec	Schwarz, EJ	RGG	RG	AI	Que			
	Obj: Stimulate exploration by contract geophysical surveys under the specially funded Asbestos Initiatives (E. Townships) mineral development program (1984–87).								
	NTS: <u>31</u>	-							
840058* (2572)	· · · · · · · · · · · · · · · · · · ·	(Rogers, PJ)	RGG	RGC		NS			
()	Obj: Assess, investigate and determine environment of Nova Scotia and to de NTS: <u>Pts 11 D,E,F,K,N</u>				anomalie	s in the secondary			
840059* (2561)	Metallogeny of Eastern Canada II	Birkett, TC	EGM	EG	RMS	Nfld NS NB Que			
	<ul> <li>Obj: 1. To determine the relationships b Appalachian, eastern Grenville ar</li> <li>2. To contribute to descriptive and exploration and resource evaluation</li> </ul>	ad Superior and southeaster genetic models of mineral	n Church	ill Province	•				
840060 (259)	Canada-Newfoundland Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	-	Nfld			
	Obj: To coordinate ERDA-supported GS integration and completion.	C geoscience investigatio	ons in Ne	ewfoundland	to ensur	e their timeliness,			
840061* (2540)	Boundary disputes: St. Pierre and Miquelon; Beaufort Sea	Ross, DI	AGC	-	-	Atlantic Offshore Arctic Offshore			
	Obj: To manage investigations by AGC of effectively to advice from EMR to E involving the earth sciences, and hyd	External concerning these	disputes i	in the perio	d 84/85 ar	nd 85/86 in matters			
840062* (2573)	Geophysical Studies – Nova Scotia Mineral Development Agreement	Richardson, KA	RGG	RGP	TG	<u>NS</u>			
	Obj: 1. Determine geologic structure in	Carboniferous rocks of Cu	mberland	Basin, offs	hore Port	Hood and Springhill			
	<ol> <li>areas.</li> <li>Produce airborne geophysical mamineral deposits.</li> <li>Explain geological and potential eta.</li> <li>Determine most suitable surface (e.g. Yava Mine) and coal beds.</li> </ol>	economic significance of se	elected ai	rborne gam	ma ray and	omalies.			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
840063* (2573)	Ice Island Seismic Reflection Studies	Overton, A	RGG	RGP	TG	Arctic Offshore	
	Obj: To conduct seismic reflection expe sedimentary and basement reflection				um param	eters for recording	
840064 (259)	Canada-Nova Scotia Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	-	NS	
	Obj: To coordinate ERDA supported G integration and completion.	SC geoscience investigat	ions in ℕ	lova Scotia	i to ensur	e their timeliness,	
840065*	Aeromagnetic Gradiometer/VLF EM Contracted Survey — Manitoba (MDA 1984-	Ready, EE -89)	RGG	RG	CS	Man	
	Obj: To carry out aeromagnetic gradiom exploration especially in drift-cove Agreement 1984–1989.	eter/VLF EM surveys as a red areas and in support	n aid to of the	detailed ge Canada-Mo	ological m Initoba Mi	apping and mineral neral Development	
	NTS: Pts <u>63 K,N; 64 B,C</u>						
840066 (250)	Canada-New Brunswick Mineral Development Agreement (ERDA)	Anderson, FD	DGO	-	-	NB	
	Obj: To coordinate ERDA supported GS integration and completion.	C geoscience investigatio	ns in Nev	w Brunswic	k to ensur	e their timeliness,	
840067* (2571)	Aeromagnetic Surveys, Digitization and Compilation of Existing Aeromagnetic Data Contract: Juan de Fuca Strait to Dixon Entrance	Knappers, WA	RGG	RG	CS	BC	
	Obj: To provide a comprehensive aeromagnetic data base of the above area as an aid to exploration of the Pacific Margin Basin. The contract entails the acquisition and compilation of approximately 27,000 line kms. of digitally-recorded medium sensitivity aeromagnetic data extending over approximately 60 1:50,000 map sheets as well as the digitization and adjustment of existing industrial aeromagnetic data amounting to 30,000 line kilometres approximately.						
	NTS: <u>92</u> C,D,E,F,L; 102 I,O,P; 103 A,B,C,F	,G,J,K,L					
840068* (2571)	Aeromagnetic Gradiometer/VLF EM Contracted Survey — Saskatchewan (MDA 1984–89)	Ready, EE	RGG	RG	CS	Sask	
	Obj: To carry out aeromagnetic gradiom exploration especially in drift-cover Agreement 1984-1989.	eter/VLF EM surveys as ed areas and in support o	an aid to f the Car	detailed ge ada-Saskat	ological m chewan M	apping and mineral ineral Development	
	NTS: Pts <u>63 K,L; 64 D, 74 A</u>						
840069* (2571)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – Eastern Township – Quebec	Ready, EE	RGG	RG	CS	Que	
	Obj: To carry out aeromagnetic gradiom exploration especially in drift-cover	neter/VLF EM surveys as a ed areas and in support of t	an aid to the Feder	detailed ge al Asbestos	eological m Initiatives	apping and mineral Program.	
	NTS: Parts of 21E/4; 21E/11; Part of 21E/	14; Part of 31H/1; <u>Pts 211</u>	E; 31 H				
840070* (2571)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – Gaspé Peninsula – Quebec	Ready, EE	RGG	RG	CS	Que	
	Obj: To carry out aeromagnetic gradiom exploration especially in drift-cover Development Plan.	neter/VLF EM surveys as red areas and in support o	an aid to f the Can	detailed ge ada/Gaspé	eological n Lower St.	napping and mineral Lawrence Economic	
	NTS: Pts 22 A,B,H						
840071* (2571)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – New Brunswick (MDA 1984–89)	Ready, EE	RGG	RG	CS	NB	
	Obj: To carry out aeromagnetic gradion exploration especially in drift-cover Agreement 1984–1989.	neter/VLF EM surveys as red areas and in support of	an aid to the Cano	detailed g ada-New Br	eological n runswick M	napping and mineral lineral Development	
	NTS: Pts 21 J,O,P						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
840072* (2571)	Aeromagnetic Gradiometer/VLF EM Contracted Survey — Nova Scotia (MDA 1984–89)	Ready, EE	RGG	RG	CS	<u>NS</u>		
	Obj: To carry out aeromagnetic gradiometer/VLF EM surveys as an aid to detailed geological mapping and mineral exploration especially in drift-covered areas and in support of Canada-Nova Scotia Mineral Development Agreement 1984–1989.							
	NTS: Pts 20 P; 21 A; 11 D,E							
840073* (2571)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – Newfoundland (MDA 1984–89)	Ready, EE	RGG	RG	CS	Nfld		
	Obj: To carry out aeromagnetic gradiom exploration especially in drift-cover Agreement 1984-89.	eter/VLF EM surveys as a red areas and in support of	n aid to f the Ca	detailed ge nada-Newfo	ological m bundland N	apping and mineral Aineral Dvelopment		
	NTS: Pts 12 A							
840074* (2571)	Aeromagnetic Surveys: Beaufort Sea Northern Yukon Territory	Knappers, WA	RGG	RG	CS	<u>Yk</u> <u>Frank</u>		
	Obj: To carry out an aeromagnetic surv aeromagnetically surveyed in the Ber	aufort Sea to provide data f	nzie Del or the Bo	lta adjacen oundary Dis	t to an o pute Progr	ffshore area to be am.		
	NTS: Pts <u>107 B,C,D,E,F,G,H; 97 F,G; 117</u>			_				
840075 (2522)	Thermal Maturity Studies of the Paleozoic Sedimentary Rocks, Arctic Islan		ISPG	Р	MaP	Mack Frank		
	Obj: Determination of the thermal history of the Paleozoic rocks of the Paleozoic platform and Sverdrup Basin, Arctic Islands, using microfossil colour changes and vitrinite reflectance of the sediments. Data resulting from these studies will indicate hydrocarbon maturation and mineralized zones.							
	NTS: 48; 49; 58; 59; 67-69; 77; 78; 79; 87-8	39						
840076* (2522)	Paleozoic biostratigraphy and biofacies studies, Arctic Islands	Higgins, AC	ISPG	Р	MiP	Frank		
	Obj: Establishment and refinement of biostratigraphic zonations and correlation, and outlining of major biofacies in rocks of Ordovician to Permian age in the Arctic Islands, by combined studies of microfaunas, palynomorphs, and macrofaunas; in support of ongoing exploration and regional geology program.							
	NTS: 48; <u>49 F;</u> 58; 59; 67-69; 77-79; 87-89							
840077 (2521)	Structural geology and tectonic Continental Shelf	Cook, DG	ISPG	RG	AI	Mack		
	<ul> <li>Obj: Our greatest deficiency in understar Delta lies in extremely limited struct</li> <li>I. Determining the geometry, sequediapiric structures.</li> <li>2. Establishing the basic structural and subjacent lithosphere from the Canada Basin.</li> </ul>	tural and tectonic synthese ential development, tempo geometry and seismostratig	s. This p ral and g graphy of	roject will jenetic rela the lower p	address the tionships o part of the	at deficiency by: of normal faults and supracrustal wedge		
	NTS: 106; 116; 107; 117							
840078* (2521)	Structural and stratigraphy of the Paleozoic-Mesozoic basins of Melville and adjacent Islands	Christie, RL	ISPG	RG	AI	Frank		
	<ul> <li>Obj: I. To obtain an improved underst Sverdrup sedimentary basins in migration mechanisms, and entra</li> <li>2. To derive improved models of tectonics.</li> </ul>	the Melville–Bathurst Isla pment, of hydrocarbons.	nds regio	on, to bette	er underste	and the source and		
	NT5: <u>78; 79; 88; 89;</u> 98; 99							
840079* (2521)	Stratigraphy and structure of Arctic Continental Shelf	Embry, AF	ISPG	RG	AI	Frank		
	Obj: - To determine the crustal structur - To determine the structural and - To evaluate the petroleum poten	stratigraphic architecture o	of the Pho	anerozoic s	uccesion o	f the Shelf.		
	NTS: 79 G,H; 89 E,F,G,H; 99 E,F,G,H; <u>560</u>							
						50		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
840080* (2523)	Petroleum Geology, Sverdrup Basin, Franklinian Geosyncline and Arctic Interior Platform	Podruski, J	ISPG	PG	-	Frank		
	Obj: To determine the distribution of Paleozoic and Mesozoic rocks in N a petroleum oriented multidiscip Basins.	Aelville Island and to inject	thermal, hy	/drodynami	c, and geo	chemistry data into		
04.0001	NTS: 78 F,G,H; 79 B; 88 E,H,G; 89 A		1000			- ·		
840081 (2521)	Upper Paleozoic stratigraphy, Melville Island	Nassichuk, WW	ISPG	-	-	Frank		
	Obj: To compare upper Paleozoic subsurface stratigraphy on Melville Island with better known surface stratigraphic elsewhere in the Sverdrup Basin, including northern Ellesmere Island and Axel Heiberg Island, and to establish an upper Paleozoic depositional, stratigraphic framework for the Sverdrup Basin, including a review of diagenesis and reef development critical to an assessment for petroleum potential.							
	NTS: 78 B,G; 88 H							
840082 (2521)	Geology of the Arctic Islands	Okulitch, AV	ISPG	RG	AI	-		
(2021)	Obj: - To compile six, 1:1,000,000 correlation charts and well dat - To compile a 1:2,000,000 scale	ta.			h cross-se	ctions, geotectonic		
	NTS: NR 7-9; NS 9-12; 12-14; 15-17; NT	79-12; 12-16; 16-20; NR 9-	12; 12-14; 1	5-17				
840083 (2543)	Regional geology of the sedimentary basins of the continental margin of Newfoundland, Labrador and Baffin Bay	McAlpine, KD	AGC	EPG	-	-		
	Obj: To further our understanding of Newfoundland, Labrador and Bafi basin; to generate the necessary of	f the regional geology and fin Bay; to develop matura	tion models	to explain	the ther			
840084 (2543)	Interpretation of geophysical data from the Scotian Margin and adjacent areas as an aid to basin synthesis and estimation of hydrocarbon potential	MacLean, BC	AGC	EPG	-	-		
	Obj: To develop a structural and seis Margin, as a means to an upda assessment.							
840085* (2541)	Seismic Refraction along the Canadian Polar Margin	Jackson, RH	AGC	RR	OBM	Arctic Offshore		
	Obj: To collect seismic refraction data 1. Crustal cross-sections of the o 2. Sedimentary thickness and bo region.	continental margin to under	stand its de	velopment.		um potential of the		
840086* (2542)	Ice Island Sampling and Investigation of Sediments (ISIS)	Mudie, PJ	AGC	EMG	Ρ	-		
	<ul> <li>Obj: 1. To determine the spatial distribution of microfossils, sediment texture, mineralogy and geotechnical properties of the sediment cover on the continental margin of Canada Basin.</li> <li>2. To define, map and interpret surficial lithofacies on this margin where conditions are probably analogous to glacial stage environments off Eastern Canada.</li> <li>3. To conduct high resolution biostratigraphic and stable isotope studies of the High Arctic shelf sediments in areas of high sedimentation rates.</li> <li>4. To correlate paleoenvironmental data from the Canadian Basin Margin with CESAR data from the Central Arctic Ocean.</li> <li>5. To construct a quantitative sediment budget for the Arctic O. margin.</li> </ul>							
840087*	Geophysical Interpretation – Precambrian	McGrath, PH	RGG	-	-	Ont Mack		
	Obj: To use geophysical data to enhan on its third dimension.	ce knowledge of the region	al aspects o	f the Preco	mbrian cru	ust with an emphasis		
	NTS: 41: 42: 750							

NTS: 41; 42; 75Ø

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
85000 * (253)	Tectonic Investigation of the Valhalla Gneiss Complex and Vicinity, Southeast BC	Parrish, RR	Р	-	G	BC			
	Obj: To assess the structural kinematics of deformed gneisses in the complex, to perform detailed structural and stratigraphic mapping of the metasedimentary part of the complex, to determine the tectonic relationship between rock units of the dome to the Castlegar gneiss to the south, the Nelson Batholith to the east, the Slocan Sycline to the north, and to the Monashee Complex to the northwest, and to collect rocks for age determinations relevant to formulating a tectonic model for this area.								
850002*	Chesterfield Inlet (55Ø, and Parts of Tavani (55K/9,16) and Marble Island (55J/13,14) map areas, District of Keewatin, NWT	Tella, S	Ρ	-	NC	Kee			
	Obj: To map the bedrock geology at scales of 1:250 000 (55Ø) and 150 000 (55J,K) in order to determine the distribution, structure, and metamorphism of the basement complex and that of the supracrustal rocks, to distinguish the effects of Kenoran and Hudsonian Orogenies, and to assess the economic potential. Emphasis will be placed on the study of shear zones to determine their tectonic significance.								
	NTS: <u>Pts 55 J,K,O</u>								
850003*	Cape Smith Fold-Thrust Belt – East End	St-Onge, MR	Р	-	BS	Que			
	<ol> <li>Obj: 1. Analysis of strain patterns within the Cape Smith fold-thrust belt contrasting ductile strain at low structural levels with brittle strain at higher structural levels.</li> <li>Resolution of horizontal and vertical contributions to the net strain in both the fold-thrust belt and basement culminations.</li> <li>Study of the metamorphic assemblages and derivation of P-T-X-t history of the Cape Smith Belt.</li> </ol>								
	NTS: <u>35 G,H</u>								
850004*	Geology of the Wager Bay "Shear Zone"	Henderson, JR	Р	_	NC	Kee			
	Obj: To determine the cause of the intense east-west striking linear aeromagnetic anomaly zone on the south coast of Wager Bay (for reference see G.S.C. Map NQ15-16-17M), its westward extent, and the relationship of rocks north and south to the zone.								
	NTS: <u>Pts 56 G,H,J; 46 E</u>								
850005*	Geology, Taltston Lake and Fort Resolution Map-areas	Bostock, HH	Р	-	BS	Mack			
	Obj; To complete reconnaissance scale Resolution (86H) map-areas. NTS: 75 E; 85 H	mapping of Precambrian	n rocks w	ithin the T	alston Lal	ke (75E) and Fort			
850006*	Structural Studies in the Metamorphic Hinterland of Wopmay Orogen	King, JE	Р	-	BS	Mack			
	Obj: Structural analysis, evaluation an geometries at high and low structura								
	NTS: Pts <u>86</u> B,G, <u>J</u> ,K,O				, ,				
850007* (2532)	Paleomagnetism of the Appalachian orogen of Eastern Canada	Buchan, K	Р	-	PMag	Nfld NB NS Que			
	Obj: To test models of the evolution of A	ppalachian terranes of Eas	stern Nortl	n America d	uring the F	Paleozoic.			
	NTS: Pts 1; 2; 11; 12; 21; 22								
850008* (2552)	Geological and geotechnical conditions, Beaufort Sea coastal zone	Dallimore, SR	TS	-	GPEG	<u>Mack</u> <u>Yk</u>			
	Obj: To provide geological and geotechniccluding information on the surface permafrost and ground ice conditional development, sitting, design and combeaufort Sea region.	ice deposits and landform ons; and active geomorph	ns; the su nological p	bsurface ge processes, s	ological m o as to as	naterials, including sist in the orderly			

NTS: Pts 107, 117

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850009*	Metallogeny of Eastern Canada I	Robert, F	EGM	EG	RMS	Que Ont		
	<ul> <li>Obj: 1. To determine relationships between mineral deposits and their geological environments in Eastern Canada, with emphasis on southeastern Superior Province and on southwestern Grenville Province.</li> <li>2. To contribute to descriptive and genetic models of mineral occurrences and to their application to exploration and resource evaluation in these regions.</li> <li>NTS: 31, 32</li> </ul>							
850010*	Regional Correlation, gold-bearing	France F	Р		PET	Sli		
(2531)	volcanic belts, Flin Flon-Southend-La Ron	Froese, E ge	F	-	PEI	Sask		
	Obj: To gain a unified comprehension of and bordered by volcanic rocks of the subdivision of the Kisseynew gneisses	ne Flin Flon and Lynn Lak						
	NTS: Pts 63 L,M; 64 D							
850011* (2531)	Structural studies, Thompson Belt, Manitoba	Froese, E	Р	-	PET	Man		
	Obj: To study problems of structural geo investigation of the Pipe 2 mine pro 20 km in extent.	ology in the Thompson Bel perty of INCO and the im	lt. In par mediate v	ticular, the icinity, an	work is to area appro	o concentrate on an oximately 20 km by		
	NTS: <u>63 0,P</u>							
850012	Supervision, Ottawa-Carleton U GSC Joint Stable Isotope Laboratory	Taylor, BE	EGM	EG	MDG	-		
	Obj: To provide appropriate expertise and leadership in the supervision of the Joint Stable Isotope Laboratory, under the terms of reference provided by the GSC-OCCGS (Ottawa-Carleton Centre for Geoscience Studies) Memorandum of Understanding and directives of the Joint Facility Management Committee.							
850013*	Light Stable Isotope Geochemistry of Rock and Ore-Forming Processes	Taylor, BE	EGM	EG	MDG	Ont		
	Obj: I. To provide a better understand Canada. 2. To develop models of ore-for characteristics. NTS: <u>52</u>							
850014*	Geological and Geophysical Studies	Percival, JA	Р	-	SG	Ont		
(2531)	of the Kapuskasing Structure	reicival, 5A		-	50			
	Obj: To carry out and support field and l as an integral part of the Kapuskasir		n the Kap	uskasing str	ucture and	l surrounding region		
	NTS: <u>41 0</u> ,N; <u>42 B</u> ,C,G,I,J							
850015 (2531)	Georesource Studies of the Nain and Churchill Structural Provinces in North River (14E) and Nutak (14F) map-areas, Labrador (Newfoundland and Quebec)	Ermanovics, IF	Ρ	-	SG	Nfid Que		
	Obj: Develop the georesource data base tectonic zone supported by detailed							
	NTS: 14 E,F							
850016*	Granites of the Eastern Meguma Terrane	Hill, J	Р	-	PET	NS		
(2531)	Obj: To raise to a common professiona associated mineralization, that lie v the tectonic evolution of the region.	vithin the Meguma terrane						
	NTS: Pts <u>11 D,E,F</u>							
850017* (2531)	Geology of the southern Long Range	van Berkel, JT	Р	-	PET	Nfld		
(2331)	Obj: To map the geology and structure a megascopic structure and petrolog Appalachians.							
	NTS: <u>Pts 12 A,B</u>							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
850018* (2531)	Structural analysis of the northern part of the Miramichi Massif	van Staal <sub>I</sub> C	Ρ	-	PET	NB			
	Obj: To gain a better understanding of the structure and metamorphism of the Bathurst mining camp and related rocks in New Brunswick to develop and constrain a tectonic-evolutionary framework.								
	NTS: Pts 21								
850019* (2531)	Study of the New Brunswick batholith belt		P	-	PET	NB			
(2001)	<ul> <li>Obj: 1. To improve existing maps for petrochemical and petrologic sampling.</li> <li>2. To establish the mineralogy, modal compositions and whole rock major and trace element and isotopic compositions of the various plutonic rock types recognized by earlier workers (Fyffe et al., 1981).</li> <li>3. To interpret the implications of granite distribution and petrogenesis for tectonic and metallogenic models of New Brunswick.</li> </ul>								
	NTS: Pts 21 G, J, O, P								
850020 (2541)	CIGAL – Computer Integrated Geophysical Acquisition and Logging		AGC	RR	-	-			
	Obj: To replace BIODAL with a state-of-th								
850021 (2542)	Marine Geotechnical studies of the Canadian Eastern and Arctic Continental Shelves and Slopes	Moran, K	AGC	EMG	SG	-			
	Obj: To determine the geotechnical and physical properties of the surficial sediments of the Arctic and Eastern Continental Shelves for the determination of geologic constraints to offshore and hydrocarbon development; for the regional assessment of foundation conditions during the time frame of hydrocarbon development; for input to the Quaternary history studies of the shelves and slopes; and for input to geological modern processes studies on the continental margins.								
850022 (2541)	Satellite Altimetry Applications for Marine Gravity	Woodside, J	AGC	RR	PF	-			
	<ul> <li>Obj: 1. To evaluate satellite altimetry do base.</li> <li>2. To obtain expertise and tools for h</li> <li>3. To obtain for further analysis a g gravity measured at sea.</li> <li>4. To analyze the long wavelength or response of the lithosphere.</li> </ul>	nandling satellite altimetry ood gravity data set comb	v data in ining gra	this way. vity derived	l from sate	ellite altimetry and			
850023* (2523)	Dempster Highway vitrinite reflectance/geochemistry cross section	McMillan, NJ	ISPG	PG	PR	Yk Mack			
	Obj: To investigate the maturation profil order to better understand their to Cordillera.	es of Paleozoic and Mesa ectonic setting and the i	ozoic sed mantle/li	imentary ro thosphere r	cks in the elationship	northern Yukon in os in the northern			
050004	NTS: <u>116, 106, 107</u>		D		OCT				
850024*	Diagenesis and structure of the Albert Formation	Currie, KL	Р	-	PET	NB			
	Obj: To determine whether there are larg respect to oil shale and metals potent		Albert Fo	rmation, an	d to assess	its diagenesis with			
	NTS: <u>21 G, H, 1</u> (parts of)								
850025*	Geological evolution of the southwest Churchill Province	Gordon, TM	Ρ	-	PET	Man			
	Obj: To elucidate the tectonic evoluti geochronological studies and by relat	ion of the southwestern ed structural and metamor	n Church phic stuc	ill Provinc lies.	e in Mar	nitoba by selected			
	NTS: <u>63 N,O; 64 A,B,C</u>								
850026*	Mesozoic and Tertiary biostratigraphy and paleoecology	Wall, JH	ISPG	Р	Al	Frank			
	Obj: To assess the assemblage composition microfaunas (chiefly foraminifera), m define subsurface and outcrop stratig	nicrofloras, ammonites and	icance ar d bivalves	nd paleoecol s of the Sve	ogy of Me rdrup Basi	sozoic and Tertiary n in order to better			

NTS: 49; 59; 69; 79; 88; 89; 98; 340; 560

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
850027	Macropaleontology, micropaleontology and palynology of the Mesozoic and Lower Tertiary of the northern Yukon and western District of Mackenzie	McNeil, DH	ISPG	Ρ	NC	Yk Mack
	Obj: To apply and expand existing biost micropaleontology (Foraminifera) and and Interior Plains sequences as part	d palynology; relationships	of thes			
	NTS: 95; 96; 97; 105; 106; 107; 116; 117					
850028*	Micropaleontology, palynology and macropaleontology of the surface and subsurface Paleozoic of the northern Yukon and western District of Mackenzie	Bamber, EW	ISPG	Р	NC	Yk Mack
	Obj: To establish and extend biostratigra groups: palynomorphs (Carbon (Carboniferous/Permian), corals (D Paleozoic macrofauna. Interpretation	niferous/Permian), con evonian/Carboniferous), b	odonts orachiopo	(Upper ds (Devoni	Paleozo an to Pe	oic), ammonoids ermian) and Lower
	NTS: 97; <u>106 F;</u> 107; 116; 117; <u>85 D; 95 A</u>					
850029	Cretaceous–Tertiary biostratigraphy and paleoecology, palynomorphs and microfossils	McNeil, DH	ISPG	Ρ	-	Yk Mack
	Obj: Establishment, refinement, and appl subsurface successions of Late Creta of J. Dixon project: Stratigraphy and	aceous and Tertiary age in	the Mac	kenzie Delt	a and Bea	ufort Sea in support
	NTS: 106; 107; 116; 117					
850030*	Macropaleontology, micropaleontology and palynology of Devonian, Cretaceous and Tertiary rocks of the Interior Plains	Sweet, AR	ISPG	Ρ	ΙP	Yk <u>Mack</u>
	Obj: To establish and refine biostratigrap ammonoids and bivalves, and Dev stratigraphic problems arising from e	onian brachiopods, corals	s and $lpha$	onodonts ar	nd apply	these to resolving
	NTS: <u>96; 85</u>					
85003 * (252 )	Lower Paleozoic stratigraphy and facies relationships in Wernecke, Ogilvie and Mackenzie Mountains	Morrow, DW	ISPG	RG	Μ	Yk
	Obj: To determine the spatial relationshi Wernecke and Ogilvie Mountains; to diagenetic changes that have affected basin transitions or transitions betwee that commonly influence diagenetic understand the evolution of the basin	outline both their sedimen ed them; to highlight regio een shelf margin shoal cor patterns and the emplace	ntologic-1 ns that c mplexes ement of	ectonic set ontain abru and interior hydrocarb	ting and a pt interfa platform ons and m	ny post-depositional ces such as shelf-to- al lagoonal deposits ineral deposits. To
	NTS: <u>106</u> D; <u>116</u> A,H					
850032* (2521)	Stratigraphic and structural analysis of Late Paleozoic strata in the northern Mackenzie and Selwyn Mountains	Cecile, MP	ISPG	RG	Μ	<u>Yk</u> Mack
	Obj: Late Paleozoic rocks in the northern and host strata to Norman Wells oil. geochemical studies in the western unravel its very complex stratigraphy	This project combines m part of this foredeep ba	apping, s sin (NTS	tratigraphi 105–0, 106	c, paleont A,B). Th	ological and organic ne objectives are to
	NTS: 105 O; 106 A,B					
850033* (2523)	Analysis of the Arctic Platform Rocks – Proterozoic, Cambrian, Ordovician, Siluria		ISPG	PG	PR	<u>Kee</u> <u>Frank</u>
	Obj: To determine the distribution of orga To assess these rocks as sources for t					
	NTS: Pts <u>45; 46;</u> 57; 58; 77; 78; 87; 88					-

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850034 (2523)	Mass Transfer to elements in clastic sequences	Foscolos, AE	ISPG	PG	GC	-		
	Obj: To study mass transfer to elements from shales to sandstones in order to understand the processes of cementation in reservoir rocks and diagenesis of shales. This data will be used to establish mineralogical stability fields for common allogenic components in shales and sandstones.							
850035* (2524)	Organic maturation and properties of kerogen and bitumen in clastic and carbonate sequences in the Sverdrup Basin and Franklinian Geosyncline	Goodarzi, F	ISPG	CG	СТ	Frank		
	Obj: To determine the properties (optical and carbonte sediments. To classify areas to those occurring in the rest o	the bitumen, its origin an	d to mak	e a compari	son of bitu			
	NTS: 39; 49; 59; 78; 79; 88; 89; 120; 340							
850036* (2521)	Mesozoic Basin Analysis of Sverdrup Basin, Arctic Archipelago	Embry, AF	ISPG	RG	AI	Frank		
	Obj: - To determine regional stratigraph - To determine environments of dep - To determine the Mesozoic geolog - To evaluate the petroleum potent - To provide a logistics base for rel	position of the strata. gic history of the Sverdrup ial of the basin. ated university and other E	Basin. EMR rese	arch on Svei	drup Basin	).		
	NTS: <u>49</u> B,C,D, <u>E,F,G</u> ; <u>59</u> B,C,D,E,F,G; 69;	79; 9 A,B,C,D; <u>340 B,C</u> ,D;	; <u>560 A</u> ,B	,D				
850037* (2521)	Stratigraphy and sedimentology of Jurassic–Cretaceous strata northern Cordillera	Dixon, J	ISPG	RG	Μ	Yk		
	Obj: To evaluate the present stratigraph strata. To establish an understandin offshore Beaufort Sea.							
	NTS: <u>116; 117</u>							
850038 (2521)	Stratigraphy and structure of northern Franklin Mountains and adjacent plains	Cook, DG	ISPG	RG	Μ	Mack		
	Obj: To carry out stratigraphic and struct Coleville Hills in order to gain a bet basins, Phanerozoic depositional seq geometry and mechanism. To evalue NTS: 86; 96; 97; 106	ter understanding of the P uences and relationships to	roterozoi o tectoni	c framewor c controls,	k underlyin and subseq	ng the Phanerozoic uent deformational		
850039 (2521)	Investigation of stratigraphy and tectonic development of Iower Paleozoic Platform-Miogeocline margin zone	Mayr, U	ISPG	RG	AI	Frank		
	<ul> <li>Obj: - To describe and understand signi in the lower Paleozoic platform A</li> <li>To describe and understand defo Peninsula.</li> <li>To describe and understand Tert relationship, if any, to seafloor sp</li> </ul>	Aiogeocline margin zone. rmation related to interse riary transverse faults in t	cting Silu	urian and De	evonian fol	d belts on Grinnell		
	NTS: 59 A,B; 69 A	sedanig in Barnin Bayv						
850040 <sup>-</sup> (2521)	Structural, Tectonic and Stratigraphic analysis of the Arctic Islands	Cook, DG	ISPG	RG	AI	Frank		
	Obj: To determine intermediate and dee refraction seismic techniques.	p structure of the arctic	archipela	igo through	applicatio	n of reflection and		
850041 (2523)	NTS: 49; 59; 69; 79; 89; 340; 560 Hydrocarbon potential in stratigraphic and unconformity related traps – seismic stratigraphy	McMillan, NJ	ISPG	PG	PR	Yk Mack		
	Obj: To evaluate the details of subsurface	e stratigraphy within parts	of the Mo	ockenzie-Be	aufort.			
	NTS: 107; 117							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
850042* (2523)	Geological nature of abnormal pressure zones of Mackenzie Delta – Beaufort Sediments	McMillan, NJ	ISPG	PG	PR	<u>Yk</u> <u>Mack</u>
	Obj: Conduct a petrographic, petrologic, in wells drilled.	chemical study of the min	erals of t	he overpres	ssured zon	es and normal zones
	NTS: <u>107; 117</u>					
850043* (2524)	Stratigraphic and coal resource analyses of coal bearing basins of Arctic Canada	Ricketts, BD	ISPG	CG	CG	Mack Yk
	Obj: To study the coal bearing strata of t emphasis on the Late Cretaceous-L Coal Inventory.	the Arctic Platform, Frank ower Tertiary Eureka Sou	linian Ge nd Forma	osyncline a ation, To p	nd Sverdru provide da	p Basin with special Ita for the National
	NTS: 96 C,F; 78 G; 49 E,G,H; 59 G,H					
850044* (2524)	Coal–Paleozoic, Mesozoic and Tertiary, western District of Mackenzie and northern Yukon Territory	Norris, DK	ISPG	CG	-	Mack Yk
	Obj: Examine the structural framework, Upper Devonian, Lower Carbonifero the northern Cordillera and contiguo	us, Lower Cretaceous, Up	hy, qualit per Crete	ty, composi aceous and	tion and a lower Ter	areal distribution of tiary coal seams in
	NTS: <u>96</u> C,D,E,F; 106 N; 107 B; 117 A,C,D	;1160				
850045 (2523)	Oil/Source correlation for Northern Interior Plains crudes	Snowdon, LR	ISPG	PG	GC	Mack
	Obj: Acquire and analyze oil, condensate the Northern Interior Plains. Map p to predict location of possible undisc	robable source distribution	amples to is once so	make hydr ource rocks	ocarbon/so have beer	ource correlations in n identified in order
850046 (2522)	Thermal Maturity studies of the Paleozoic of the northern mainland and Tertiary of the Beaufort Sea/ Mackenzie Delta	Higgins, AC	ISPG	Ρ	WA	Yk Mack
	Obj: Determination of organic maturity scolecodonts, graptolites and sedime				use of co	nodonts, palynology,
	NTS: 116; 106; 107; 117; 97; 96					
850047*	Mineral Development Agreements – Geochemistry	Friske, PWB	RGG	RG	-	<u>NfId NB</u> Man <u>Sask</u> <u>Yk</u> Ont
	Obj: - To contract and/or conduct orien - To publish high quality multi- environmental use.	tation, regional and follow element reconnaissance	-up geoch exploration	nemical sur on data fo	veys. or explore	ition, appraisal and
850048* (2521)	Geological Mapping in the Southern Canadian Rocky Mountains	McMechan, M	ISPG	RG	Μ	<u>BC Alta</u>
	Obj: To publish 1:250,000 scale maps with NTS: 82 G,J	n cross-sections for the Sou	uthern Ca	nadian Roc	ky Mounta	ins.
850049* (2551)	Quaternary geology and geomorphology, northern Melville Peninsula	Dredge, LA	TS	-	RP	Frank
	<ul> <li>Obj: To map, describe and explain the processes in NTS 47 C in order to pr</li> <li>l. elucidate the Quaternary history</li> <li>2. provide information for mineral to meet the need for Quaternary</li> </ul>	ovide areal knowledge of g of the region, and; development and land use	eology an planning	nd terrain th • This proj	nat will: ect is part	t of a long term plan
	NTS: <u>47 C</u>					
850050	Subpaleozoic Compilation/Core Drilling	Gordon, TM	Р	-	PET	Man
(2531)	Obj: To investigate, map and interpret I the Shield south of the Flin Flon – S	Precambrian geology benea now Lake Belt in Cormora	ath Paleo nt Lake (N	vzoic cover NTS 63 K) n	rocks adje nap area,	acent to the edge of
	NTS 63 K					

NTS: 63 K

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850051* (2551)	Echantillonnage des sédiments meubles, région de l'Ungava, Québec	Veillette, JJ	TS	-	RP	Qué		
	<ul> <li>Obj: - Comptage de fragments rocheux à environ 800 sites.</li> <li>- Déterminer le pouvoir tampon des sédiments pour les pluies acides.</li> <li>- Relevé des indicateurs d'écoulement glaciaire.</li> <li>- Fournir des données de base pour projets futurs de cartographie dans ce secteur par la Commission géologique du Canada.</li> </ul>							
	NTS: 24 K,L,M,N; 25 D,E; 34 I,J,K,L,M,N,C	D,P; 35 A,B,C,D,E,F,G						
850052 (2561)	Metallogeny of gold in the continental crusts	Thorpe, RI	EGM	EG	MDG	-		
	<ul> <li>Obj: 1. To increase understanding of the object o</li></ul>	e geological processes and a) exploration, and (b) asses riptions of major types of (	environm ssment of	ents impor gold poten	tant in the tial.	formation of gold		
850053* (2573)	Geophysical Studies – New Brunswick Mineral Development Agreement	Richardson, KA	RGG	RG	-	NB		
	<ul> <li>Obj: I. Produce airborne geophysical ma mineral deposits.</li> <li>2. Apply airborne geophysics to the interval of th</li></ul>					avourable areas for		
	NTS: <u>21 G, J</u>							
850054* (2573)	Geophysical Studies – Newfoundland Mineral Development Agreement	Richardson	RGG	RG	-	Nfld		
	Obj: 1. Produce airborne gamma ray spec 2. Determine optimum borehole g Newfoundland zinc, Rambler and	geophysical methods for						
	NTS: 1 M: <u>2 D;</u> 110; <u>12</u> A,B,G, <u>H</u> ,I; 14 D							
850055 (2543)	Quantitative stratigraphy in paleoceanography and petroleum basin analysis	Gradstein, FM	AGC	EPG	-	-		
	Obj: To develop new approaches to Quan eastern Canada and contiguous areas		o apply t	his to the s	edimentary	v basins of offshore		
850056 (2543)	Regional geophysics of Mesozoic- Cenozoic of Baffin Bay-Labrador Margin	Bell, JS	AGC	EPG	-	-		
	Obj: To develop an understanding of the delineate oil and gas plays and prospe- with related disciplines to develop se	ects for input into the reso	urce appr	ly on indus raisal progra	try multic am, and to	hannel seismic, to integrate the data		
850057 (2543)	Sedimentological and geochemical studies of hydrocarbon reservoirs of offshore eastern Canada	Bell, JS	AGC	EPG	-	-		
	Obj: To study development and destruction and the role of source rocks and hydr					diagenetic changes,		
850058* (2573)	Airborne Resistivity Mapping	Palacky, GJ	RGG	RG	SP	<u>Man Ont</u> Mack Kee		
	Obj: Establishing the use of systematic determination of extent, thickness (not thicker than 200 m) and shallow-	and resistivity of glacial						
850059 (2531)	The tectonics of Archean and Proterozoic gneisses bordering the Ungava Trough	Baragar, WRA	Ρ	-	SP	Qué		
	Obj: 1. To map and interpret in tectonic	terms the external structu	ral and li	thological s	etting of t	he Ungava Trough.		
	NTS: Parts of 35 C,F,K,L							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
850060 (2571)	Aeromagnetic Survey — Laurentian Channel	Knappers, WA	RGG	RG	CS	Nfld NS	
	<ul> <li>Obj: To carry out a medium sensitivity aeromagnetic survey comprising approximately 77400 1/km over the Laurentian Channel and part of Cabot Strait, overlapping southern Newfoundland and eastern Nova Scotia in order to provide data for the boundary dispute program.</li> <li>NTS: <u>I E,K,L,M; II F,G,H,I,J,K,O,P</u></li> </ul>						
850061 (2526)	Western Canada Basin Oil Potential Assessment	Barclay, JE	ISPG	PG	-	Man Sask Alta BC	
	Obj: To make an assessment of undiscover	ed oil potential for Wester	rn Canado	a Sedimenta	ry Basin.		
	NTS: 62; 72; 73; 74; 82; 83; 84; 93; 94						
850062 (2526)	Evaluation of Hydrocarbon Potential of Mackenzie Corridor, Northern Mainland	Hamblin, AP	ISPG	PG	-	Yk	
	Obj: To assess the hydrocarbon resource potential of the mainland Yukon and Northwest Territories, in the sedimentary basins flanking the Mackenzie River (excluding Mackenzie Delta).						
850063 (2522)	Service as Foreign Secretary, Canadian Geoscience Council and on other international bodies	Norford, BS	ISPG	Ρ	MaP	-	
	Obj: To facilitate and to coordinate cooperation in the geosciences between non-governmental Canadian organizations and foreign non-governmental organizations. To inform the Canadian geoscientific community of the results, benefits and opportunities of such participation.						
850064 (2526)	Evaluation of the Hydrocarbon Potential of the Arctic Islands	Podruski, JA	ISPG	PRAS	-	Frank	
	Obj: To assess the hydrocarbon resource p	otential of the Arctic Isla	nds.				
	NTS: 37-39; 47-49; 57-59; 67-69; 77-79; 87	-89; 97-99; 120; 340; 560					

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810010\*; 850048\* 750024; 770068; 830005\*; 850023; 850033; 850041; 850042 590457 740042; 780029; 850027; 850029 810017 810024\* 800029\* 850021 670016; 840019; 850031\* 690064\* 780001 820044\*; 840086\* 820021\* 680064\*: 840081\* 840036 730019\* 610019\*; 850063 700034<sup>-</sup>; 770048\* 610007; 690005; 820001\*; 850044\* 770077\* 790042; 830051; 840082 680081<sup>\*</sup> 810028\*: 810029 780003 820023; 840063\* 850058\* 850001\* 680093\* 720102; 780026 820006\*; 850014\* 810047\*; 820050; 830055\* 620308 840080; 850064 800023; 810048: 820020; 840060; 840064 840018\* 760042\* 650023 720066 \*810008 770053; 820032; 830049\* 750046 840040\*; 840065\*; 840068\*; 840069; 840070\*; 840071\*; 840072\*; 840073 790030; 790044 800035\*; 830002 840051\* 680027; 740068\* 810011\* 840062\*; 850053\*; 850054\* 770047\*; 850043\* 850009\* 630016\* 840058\* 770055\* 840038\*; 840061\* 750010\* 830017; 840002 810020; 850003\* 75006 | \* 650056\*; 730042; 800021 770015 800020\*; 830057 720062; 800008; 840013\* 830026\*; 840057\*

Scoates, R.F.J. Sharpe, D.R. Shilts, W.W. Sinclair, W.D. Sinha, A.K. Skibo, D.N. Slaney, V.R. Smith, G.G. Snowdon, L.R. Souther, J.G. Srivastava, S.P. Stalker, A.M. Stenson, A.P. Stephens, L.E. Stott, D.F. Struik, L.C. Sweet, A.R. Syvitski, J.P.M. Taylor, B.E. Taylor, F.C. Taylor, G.C. Taylor, R.B. Tella, S. Tempelman-Kluit, D.J. Teskey, D. Thompson, P.H.

840012\* 830018\* 690095\*; 730013; 830025\* 770071\* 810003 770067; 830011 810009 830043 760053; 760054; 760063; 850045 730067\*; 770001\* 780042; 810045; 840017 650027\* 640048\* 840055 780039\*; 810013 820014\* 710091\*; 850030\* 810041\*; 810042\* 850012; 850013 830029; 840004\* 810012; 820031 750043\*; 800015; 820043\*; 830001\* 790009; 820007; 850002\* 730037; 770017; 830020\* 760065; 820027\* 830010<sup>\*</sup>

Thompson, R.I. Thorpe, R.I. Thorsteinsson, R. Tipper, H.W. Tozer, E.T. Trettin, H.P. Utting, J. Uyeno, T.T. Van Berkel, J.T. Van Breemen, O. Van Staal, C. Veillette, J.J. Vilks, G. Vincent, J.S. Wade, J.A. Wall, J.H. Whalen, J.B. Wheeler, J.O. Williams, G.K. Williams, G.L.

Yeo, G. Yorath, C.J.

Woodside, J.

Woodsworth, G.J.

750019; 780028; 800022\* 680060\*; 780032; 810025; 850052 650003\* 750035\* 670576\* 730051; 840047 810038\* 680101 850017\* 830006\* 850018\* 770030\*; 840035\*; 850051\* 830045 740065; 810007; 830019\*; 840001\* 720103; 720104\* 720044<sup>-</sup>; 850026\* 840021\*; 850019\* 790041; 800033 710033 810034; 820003; 820041 840056; 850022 770020; 800028\*

840045\* 770006\* Index by Province

General	840082	810022	760063	Franklin	840014*
	840083	810028*	770019		840020*
380077	840084	810029	770024*	610019*	840040*
550101*	840086*	820015*	770025*	650003*	840047
570148	850012	820035	770047*	650056*	840048*
580175*	850020	820038*	770055*	670002	840074*
620308	850021	830007*	770063*	670016	840075
640402	850022	830016*	770071*	680064*	840076*
680017	850034	830019	780009	680093*	840078*
680071	850052	830028	780029	680101	840079*
680090	850055	830038	780035	680109	840080*
680091	850056	840003*	790007	690061	840081
680114	850057	840014*	790008	710022*	850026*
690038	850063	840019	790031	720044*	850033*
690090		840051*	790033*	720062	850035*
700027	Yukon	840074*	800001*	720078	850036*
700059*		850008*	800006*	720081	850039
720056	500029	850023*	800009	720102	850040
720066	610007	850027	800030*	730051	850049*
730019*	610019*	850028*	810003*	740017	850064
730042	650013	850029	810005*	740065	
730062	650024*	850030*	810013	740067	Keewatin
740041*	650056*	850031*	810020	750006	
740042	670576*	850032*	810021*	750024	650056*
750023	68003 I	850037*	810022	750051*	660006
750036	680093*	850041	820002	750063*	680012
750039	680109	850042*	820009*	750071	680101
750068	690005	850043*	820035	750083	720062
750094	700034	850044*	820038*	750098*	730013
750110	710020*	850046	830007*	760010*	740017
760064	710022*	850047*	830008*	760023	740084*
760065	710091*	850062	830010*	760026	750010*
770004*	720102		830016*	760042*	750071
770015	730027*	Mackenzie	830017*	760047	750074
770054	730035	500020	830019	760053	750098*
770067	730037	500029	830028	760058*	750102
770072	730057	610007 610019*	830052* 840001*	770013	760047
780001 780021	740081*	650024*	840001*	770028 <sup>-</sup> 770037 <sup>-</sup>	760058* 770032
780032	740098* 740107*	650056*	840002*	770047*	
780049	750025	660009	840005*	770063*	770055* 770071*
790002	750025	680031	840012*	770068	770077*
790004	750051*	680047*	840014*	770071*	780002*
790037	750069*	680060*	840019	780018	780008
800021	750076	680093*	840020*	780035	780012
800033	760042*	680109	840026*	790016	780035
800041*	760059	690005	840029*	790024	790009
810009	760063	700034	840050*	790029	800008
810015	770001*	710020*	840075	790031	800012
810023	770017	710022*	840077	790042	810024*
810025	770025*	710023	840087*	800031	810044*
810035	770031	710033	850005*	810007	820004
810045	770047*	720052	850006*	810016	820007
820024	770063*	720102	850008*	810038*	820008
820027*	770068	730040	850023*	810042*	840003*
820031	770071*	730057	850027	810044*	840004*
820032	780029	740017	850028*	820035	840012*
820048	780035	740019	850029	820038*	840020*
830003	780035 790003*	740019 740081*	850029 850030*	820038* 820043*	840020* 840026*
830003 830011	780035 790003* 790005*	740019 740081* 740107*	850029 850030* 850032*	820038* 820043* 830001*	840020* 840026* 850002*
830003 830011 830015*	780035 790003* 790005* 790007	740019 740081* 740107* 750010*	850029 850030* 850032* 850038	820038* 820043* 830001* 830018*	840020* 840026* 850002* 850004*
830003 830011 830015* 830021	780035 790003* 790005* 790007 790008	740019 740081* 740107* 750010* 750025	850029 850030* 850032* 850038 850041	820038* 820043* 830001* 830018* 830019	840020* 840026* 850002* 850004* 850033*
830003 830011 830015* 830021 830039	780035 790003* 790005* 790007 790008 790008	740019 740081* 740107* 750010* 750025 750055	850029 850030* 850032* 850038 850041 850042*	820038* 820043* 830001* 830018* 830019 830022*	840020* 840026* 850002* 850004*
830003 830011 830015* 830021 830039 830040	780035 790003* 790005* 790007 790008 790031 790033*	740019 740081* 740107* 750010* 750025 750055 750069*	850029 850030* 850032* 850038 850041 850042* 850043*	820038* 820043* 830001* 830018* 830019 830022* 830023 <sup>-</sup>	840020* 840026* 850002* 850004* 850033* 850058*
830003 830011 830015* 830021 830039 830040 830041	780035 790003* 790005* 790007 790008 790031 790033* 790044	740019 740081* 740107* 750010* 750025 750055 750069* 750076	850029 850030* 850032* 850038 850041 850042* 850043* 850044*	820038* 820043* 830001* 830018* 830019 830022* 830023 <sup>-</sup> 830028	840020* 840026* 850002* 850004* 850033* 850058* British
830003 830011 830015* 830021 830039 830040 830041 830053	780035 790003* 790005* 790007 790008 790031 790033* 790044 800001*	740019 740081* 740107* 750010* 750025 750055 750069* 750076 750098*	850029 850030* 850032* 850038 850041 850042* 850043* 850043* 850044* 850045	820038* 820043* 830001* 830018* 830019 830022* 830023 <sup>-</sup> 830028 830029	840020* 840026* 850002* 850004* 850033* 850058*
830003 830011 830015* 830021 830039 830040 830041 830053 830055*	780035 790003* 790005* 790007 790008 790031 790033* 790034 800001* 8000018*	740019 740081* 740107* 750010* 750025 750055 750069* 750076 750098* 760024	850029 850030* 850032* 850038 850041 850042* 850042* 850043* 850044* 850045 850046	820038* 820043* 830001* 830018* 830019 830022* 830023 830028 830029 830042	840020* 840026* 850002* 850004* 850033* 850058* <u>British</u> Columbia
830003 830011 830015* 830021 830039 830040 830041 830053 830055* 840027	780035 790003* 790005* 790007 790008 790031 790033* 790044 800001* 800018* 800018*	740019 740081* 740107* 750010* 750025 750055 750069* 750076 750098* 760024 760042*	850029 850030* 850032* 850038 850041 850042* 850043* 850043* 850044* 850045	820038* 820043* 830001* 830018* 830019 830022* 830023 <sup>-</sup> 830028 830029 830029 830042 840003*	840020* 840026* 850002* 850004* 850033* 850058* British Columbia 500029
830003 830011 830015* 830021 830039 830040 830041 830053 830055*	780035 790003* 790005* 790007 790008 790031 790033* 790034 800001* 8000018*	740019 740081* 740107* 750010* 750025 750055 750069* 750076 750098* 760024	850029 850030* 850032* 850038 850041 850042* 850042* 850043* 850044* 850045 850046	820038* 820043* 830001* 830018* 830019 830022* 830023 830028 830029 830042	840020* 840026* 850002* 850004* 850033* 850058* <u>British</u> Columbia

620018	820016*	830028	810003*	810008	800019
	820017*	830042	810013	810043*	800020*
630016*				820005*	800023
650023	820018*	830043	810043*	+	
650024*	820052*	830051	820006*	820006*	800027*
670576*	830005	830052*	820010*	820010*	800030*
	830006*	840003*	820012	820012	810003*
680060*				820021*	
680066	830016*	840049*	820021*		810042*
680081*	830020*	850048*	820033	830009*	820005*
680093*	830028	850061*	820052*	830018*	820010*
		050001	830014*	830025*	830009*
690075*	830051				
700047	840003*	Saskatchewan	830058*	830026*	830018*
710022*	840046*		840018*	830049	830026*
710091*	840049*	650027*	840020*	830050	830050
		680012	840030*	830058*	830054
720098	840056				
730035	840067*	680093*	840031*	840018*	840003*
730067*	850001*	720071*	840042*	840020*	840016*
740062*	850048*	720073	840050*	840028	840020*
		740017	840065*	840030*	840021*
740081*	850061				
740091*		740091*	850011*	840031*	840022*
740098*	Alberta	750010*	850025*	840050*	840023*
740107*		750051*	850047*	840051*	840031*
	500020	750069*	850050	840056	840032*
750018	500029				
750019	610019*	750098*	850058*	840087*	840035*
750035*	610269	760047	850061	850009*	840050*
750051*	650023	770053		850013*	840051*
			Ortenia	850047*	840052*
750069*	650027*	770055*	<u>Ontario</u>		
750076	670576*	780003		850058*	840053*
750088	680027	780015*	400006*		840054
750108*	680093*	780047	570029*	Quebec	840057*
				doebee	
760042*	700034	790013	590457	100007	840059*
760059	710022*	800007*	640048*	400006*	840069*
770001*	710091*	800018*	650056*	570029*	840070*
	720098	810003*	680023*	640048*	850003*
770006*				650056*	850007*
770016*	750018	810013	680060*		
770020	750069*	810014*	680081*	680060*	850009*
770024*	750076	820010*	690095 <b>*</b>	680081*	850014*
770025*	750088	820052*	700018	680101	850015
		830008*	720071*	680102*	850051*
770031	760042*				
770041	760056	830014	720072*	690064*	850059
770060	760062*	830024*	720078	690095 <b>*</b>	
770071*	770048	830042	720084*	720071*	Nova Scotia
		830043	730027*	720072*	
780003	770053				400007 *
780006*	770060	840018*	740017	730027*	400006*
780015*	780003	840020*	740068*	740017	500029
780027*	780006*	840041*	740081*	740068*	650056*
780028	780028	840050*	740084*	740081*	680102*
				740084*	680109
780039*	780039*	840068*	740091*		
780045	780045	850010*	740107*	740091*	690064*
790003*	780047	850047*	750010*	740107*	690095*
790006*	790008	850061	750051*	750010*	700056
	790013		750061*	750061*	710061*
790008		44 ** 1		750069*	720071*
790013	790022	Manitoba	750098*		
790022	790034*		760027*	750098*	720072*
790030*	790038*	640048*	760061*	760014	730043
790034*	800018*	680081*	770030*	760027*	730044*
			770071*	760061*	740084*
790038*	810010	680093*			
790041	810011*	720071*	770077*	770030*	750010*
800018*	810013	740017	780002*	770063*	750051*
800020*	810014*	740091*	780015*	770071*	760014
	810017	750069*	780016*	770077*	770024*
800028*				780002*	770051
800029*	810018	750072*	780017		
810006*	810019	750098*	780024*	780012	770071*
810010	810039*	770055*	780033*	780016*	770077*
	820001*	770063*	780035	780017	780022
810011*				780024*	790027
810012	820010*	770077*	780047		
810013	820021*	780003	790034*	780033*	800015
810014*	820033	780011	800013	780035	*810008
810018	820035	780016*	800018*	790025	800023
		800007*	800027*	790034*	810003*
810019	820052*				
810028*	830005	800014	800030*	800005	810048
810029	830016*	800018*	810003*	800013	820013
820014*	830027*	800024	810005*	800018*	820021*
0200142	000027 "		0.0000		,

820046* 830058* 840018*	730043 730044* 740017	850047* 850054* 850060	800027* 820046* 840020*	720104* 730072 730081	840038* 840061*
840020*	740072*	000000	840028	740003*	Arctic
840028	740091*	New Brunswick	840031*	750046	Offshore
840031*	750010*		840039*	760054	
840039*	750011	400006*	840050*	780019	650007*
840045*	750043*	500029	840051*	780042	700092*
840051*	750051*	570029*	840059*	790018*	760015*
840056	750069*	650056*	840066	790019*	780048
840058*	760014	680102*	840071*	790036*	790036*
840059*	770024*	680109	850007*	800034	800034
840062*	770026	690064*	850018*	800035*	810040
840064	770063*	690095*	850019*	800036*	810041*
840072*	770077*	700056	850024*	810031	820023
850007*	780016*	710061*	850047*	810032	820050*
850016*	780025	720071*	850053*	810033	830002
850060	790025*	720072*		810034	830004
	800023	730043	<u>P.E.I.</u>	810037*	830045
Newfoundland	810003*	730044*	(00100	810041*	840061*
100004 **	810036*	740084*	680102*	810047*	840063*
400006*	820010*	740091*	680109	820003	840085*
500029	820020*	750010*	710061*	820041	B 10
570029*	820021*	750051* 750061*	820046*	820044*	Pacific
650056*	820039*	760014	840039*	830002	Offshore
680102*	840020*	770051	A dland's	830004	500000
680109 690065	840024* 840059*	770031	Atlantic	830045 830056*	500029
690095*	840059*	770077*	Offshore	830056*	800010*
710061*	840060	780022	710059*	840015*	810041* 820051*
720071*	850007*	780022	710055	840013	840033*
720072*	850015	780047	720103*	840036	840033*
720080*	850017*	800023	120103.	00000	040034 *
120000	030017	000020			