CANADA DEPARTMENT OF ENERGY, MINES AND RESOURCES

GEOLOGICAL SURVEY OF CANADA

CATALOGUE OF SCIENTIFIC PROJECTS 1984-1985



OTTAWA 1984

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CATALOGUE OF SCIENTIFIC PROJECTS

1984-85

Compiled by M.A. Petre

0TTAWA 1984

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PREFACE

This catalogue of all scientific projects of the Geological Survey of Canada approved as of August 1982 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 1 April, 1984 to 31 March, 1985, and 2) the field program for the summer of 1984.

As a catalogue it lists and briefly describes all scientific projects. These total 487 (27 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 1984 comprises the field component of those active projects marked by an asterisk after the project number. These total 220. 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 1984

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GEOLOGICAL SURVEY OF CANADA

ORGANIZATION

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Atlantic Geoscience Centre, Dartmouth, N.S., Director — M.J. Keen, (902)426-2367)
Eastern Petroleum Geology Subdivision, G.L. Williams, (426-2730)
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
 Information Subdivision, N.C. Ollerenshaw (284-0110)
 Paleontology Subdivision, E.W. Bamber, (284-0110)
 Petroleum Geology Subdivision, N.J. McMillan (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

1 ADMINISTRATION PROGRAM

ACTIVITIES

SUB-ACTIVITIES

- .1 Corporate Management
- .2 Common Services

2 MINERAL & EARTH SCIENCES PROGRAM

- Mineral Development
- .2 Administration of the Canada Explosives Act
- .3 Minerals Technology
- .4 Energy Technology
- .5 Geological Surveys
- .1 Cordilleran Geology
 - .1 Cordilleran Regional Geology
 - .2 Pacific Marine Geology
 - .0 General
- .2 Sedimentary & Petroleum Geology
 - .1 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
 - .1 Precambrian Regional Geology
 - .2 Precambrian Laboratory Geology
 - .0 General
- .4 Atlantic Geoscience
 - .1 Atlantic Regional Geology
 - .2 Environmental Marine Geology

 - .3 Eastern Petroleum Geology .4 Marine Geoscience Technology
 - .0 General
- .5 Terrain Sciences
 - .1 Regional Terrain Geology .2 Terrain Use Geology
 - .0 General
- .6 Economic Geology and Mineralogy

 - .1 Economic Geology .2 Mineralogy and Chemistry .0 General
- .7 Resource Geophysics & Geochemistry
 - .1 Regional Geophysics
 - Resource Geochemistry
 - .3 Resource Geophysics
 - .0 General
- .8 Geological Information
- .9 Activity Management & Support

- Earth Physics .6
- .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		Р	– MaP	
CG -Coal Geol	leum Geology Subdivision ogy Baffin Group		MiP OP	-Micropaleontology -Ottawa Paleontology
PBG -Paleozoic	Basin Group Basin Group rand Banks Margin Group	RG	_ AI	Regional Geology Subdivision -Arctic Islands
EMG — Environmental G -Geochemis	Marine Geology Subdivision		CTS M	-Curation and Technical Services -Mainland
P -Paleoecol		PRAS	-	Petroleum Resource Appraisal Secretariat
		PRECAMBR	IAN	GEOLOGY DIVISION — P
EAOG -Eastern A GPS -Geophysic OBM -Ocean Bas	nnaissance Subdivision rctic Offshore Geology al Surveys ins and Margins and Bedrock Geology		BS G NC PET	
PS — Program Suppo	rt Subdivision .		PMa SG SP	g -Paleomagnetic -Superior Grenville -Special Projects
CORDILLERAN GEOLOGY DIVISI	ON — C			
		RESOURCE	GEO	PHYSICS AND GEOCHEMISTRY — RGG
CMG — Cordilleran M PMG — Pacific Margi	ainland Geology n Geology	RG	– AI	Regional Geophysics Subdivision -Aeromagnetic Interpretation
ECONOMIC GEOLOGY AND MINER	ALOGY DIVISION — EGM		CS EAO GDP	-Contract Surveys -Experimental Airborne Operations
MAG -Mathemati MDG -Mineral D MRIS -Mineral R RMS -Regional	ogy Subdivision cal Applications in Geology eposits Geology esource Information Services Metallogenic Studies	RGC	OA AL ER	-Ocean Aeromagnetic Resource Geochemistry Subdivision -Analytical Laboratories -Exploration Research
_	Mineral Resource Assessment		RR SDS	-Regional Research -Standards & Data Services
MC — Mineralogy & AC -Analytica MIN -Mineralog	Chemistry Subdivision 1 Chemistry y	RGP	— BG IRD	Resource Geophysics Subdivision -Borehole Geophysics -Instrumentation R&D
INSTITUTE OF SEDIMENTARY A	ND PETROLEUM GEOLOGY — ISPG		RG TG	-Radiation Geophysics -Terrain Geophysics
CG — Coal Geology CG -Coal Geol CT -Coal Tech	ogy nology	TERRAIN	SCIE	NCES DIVISION — TS
RE -Resource	Evaluation	GPEG	-	Geomorphic Processes and Engineering
PG — Petroleum Geo GC -Geochemis PR -Petroleum		PG RP SMT SP		Geology Paleoecology and Geochronology Regional Projects Sedimentology and Mineral Tracing Special Projects

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 s compositional analyses using to projects.	taff of the Branc he established metho	ch, and other ods of the Sect	s on occ	asion, w pport of	ith comprehensive Branch scientific
400006* (2562)	Preparation of collections of Canadian rocks and minerals for distribution to the public	Larose, JM	EGM	MC	Min	-
	Obj: To make available for distribut collections of Canadian rocks mineral industry.					
500029 (2522) (2512) (2543)	Identification and biostrati- graphic interpretation of referred fossils	Bamber, EW	ISPG C AGC	P MG EPG	-	NS Nfld NB Yk Mack BC Alta Pacific Offshore
	Obj: By the study of fossils collections and the general phost rocks and to the dating collections to further knowled NTS: 95 B,C; 12 D; 103 G; 82 E,K; 8	ublic, to provide ic g of geological ev ge of paleontology	lentifications ents. To des	and ages was cribe imp	vital to d ortant fo	correlation of the
550101* (2562)	Reference collections of minerals, rocks and meteorites	Herd, RK	EGM	MC	Min	-
(2302)	Obj: To develop, foster and curate Branch activities and in the n		ns of minerals	, rocks, a	nd meteor	ites in support of .
570029* (2561)	Geology and evaluation of iron and manganese resources	Gross, GA	EGM		- ·	Nfld NB Que Ont Man Sask Alta Kee BC Frank
	Obj: To conduct comprehensive study geological basis for explorat Canada.					osits to provide a
	NTS: 21 G,P; 22,23,31,32, 41 I, 42,	46,47,52,53,62,63,6	4,65, 93, 103			
570148 (2551)	Radiocarbon dating program	Blake, W Jr	TS	-	PG	-
(2331)	Obj: To plan and co-ordinate the ra	diocarbon dating pr	ogram of the G	eological	Survey.	
580175* (2572)	Analytical services and development in geochemistry	Hall, GEM	RGG	RGC	AL	-
	Obj: To provide for the present and Subdivision.	d future analytical	service requi	rements of	the Reso	ource Geochemistry
590457* (2551)	Radiocarbon laboratory development and operation	McNeely, RN	TS	-	PG	<u>Ont</u>
	Obj: 1. To determine the age of continuing and improving preson new techniques. 2. To conduct research on varapplication to age determine	ecision of existing t iations in the radio	techniques; an ocarbon conten	d to keep a	abreast o	f current research
	NTS: <u>31 G</u>					
610007	Operation Porcupine	Norris, DK	ISPG	CG	CG	Mack Yk
(2524)	Obj: Critical evaluation of the str Yukon Territory and western Di mechanics of the deformation a	uctural geometry an strict of Mackenzie	for the docum	mentation -	of the na	ature, origin, and
	NTS: 106 E,F,K,L,M,N; 116 F,H,I,J,K	•	e nyarocarbon	and minier o	ir potenti	rat of the region.
- in 1 () brad Brad	first column indicates project has a first column indicates project is ina cketed number in first column indicat ckets indicate seasonal employee or o erscoring indicates province of curre	ctive. es departmental cla ther non-staff.	ssification.			1

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	Р	MaP	Frank Mack Yk <u>BC</u> Alta
	Obj: Establishment of sequence of bioc of zones to provide necessary tim Silurian rocks in northern and we	ne control for explorat	Ordovici	an and Silu natural res	urian time sources of	. Such sequence Ordovician and
	NTS: 36; 37; 47-49; 54; 57-59; 67-69; 8	2 J; 83; 85; 94; 95; 96;	97; 104	I,P; 105 I	; 106; 110	5, 117; 120; 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 propertie deposition studies, of coals of t NTS: 82 G,J,O		profiles	s for corre	lation an	d environment of
620018 (2561)	Geological Survey of NIS 82 1 W (Kananaskis Lakes, W2)	Leech, GB	EGM	CG	-	ВС
	Obj: to determine and interpret the NOTn.AVAILABLE NTS: 82 J W½	stratigraphic structura	al and e	economic ge	eological	features of the
620308	Electron beam microanalysis	Plant, AG	EGM	MC	Min	_
(2562)	Obj: To conduct studies of geologica scanning electron microscopy, in	l materials using tech	niques o			icroanalysis and
630016* (2511)	Coast Mountains project Obj: A geological reconnaissance of publication on a scale of 1 inch events in the geological history of processes governing the formation	equals 4 miles. The in of the Coast Crystalling	nvestiga e Belt a	tion is ex nd to devel	pected to op an unde	reveal the main
	NTS: 92 F,G,H,J,K,L,M,N; 93 D; 102 P;			genic beits	•	
640048* (2562)	Study of mineral collecting areas of interest to collectors and tourists	Stenson, Mrs AP	EGM	MC	Min	Que <u>Ont</u>
	Obj: To meet the needs of mineralogists on the accessibility, location, a	s and non-professional (and nature of occurrence	Canadian es of mi	and foreig nerals and	n visitors rocks.	for information
	NTS: <u>52 A</u>					
640402 (2561)	Certification of bedded and non-bedded mineral deposits	Findlay, DC	EGM	EG	-	-
	Obj: To act on behalf of the Director deposits as bedded or non-bedded	r-General of the Geolog for income tax purposes	ical Sur s.	vey in the	certific	ation of mineral
650003* (2521)	Cornwallis and adjacent smaller islands	Thorsteinsson, R	ISPG	RG	AI	Frank
	Obj: 1. To improve the understanding of formations with a view of help	ping;		-		
	 Assess the size, grade, mode deposit that may occur; Improve the knowledge and unde Cornwallis Island, thus aiding the region and thereby contrib 	rstanding of the morpho in the establishment of	logy of	Silurian an	d Devonia	n ostracoderms of
	NTS: 58 F,G; 68 E,H; 59 B					
650007* (2571)	Ocean aeromagnetics	Bower, ME	RGG	RG	OA	Arctic Offshore
	Obj: 1. To delineate sedimentary basin 2. To investigate the validity ocean floor spreading and cont 3. To obtain aeromagnetic data	of theories postulating tinental drift.	g the ma	gnetic imp	rinting o	f oceanic rocks,

America.

4. To contribute to the development of high resolution airborne magnetometry.

2

Project Number	Title	Project Le ade r	Div.	Subdiv.	Sec.	Prov.
650013 (2551)	Quaternary geology, Aishihik Lake	Hughes, OL	TS	-	RP	Yk
	Obj: To map and explain the Quaternary reference to the nature and dist history in order to 1) improve know areal geological information for NTS: 115 H; pts. 106 D,E; 115 A,B,G,I	ribution of surficial wledge of the glacial h	material istory o	ls and Qua f southwest	ternary s ern Yukon	tratigraphy and
650023	Operation Bow-Athabasca	Price, RA,	DGO	_	_	BC Alta
(250)	Obj: To complete the systematic reconnt to obtain information on the char and origin of the bedrock and o potential of the area and to assis and adjacent areas.	acter, structure, distr ther geological data t	ribution hat are	, age, stra required	atigraphic to evalua	relationships, ate the mineral
	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	Mack Yk BC
	Obj: To describe and assess biochrono methods for dating Cambrian strate		of Cambr	ian trilob	ites in (order to refine
	NTS: 106 B; 94 C-F; 116 B,C					
650027* (2551)	Quaternary of southern Alberta Obj: To gain knowledge of Quaternary	Stalker, AM Stratigraphy, chronolo	TS gy, env	RP ironments	and clima	<u>Alta</u> Sask tes 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 .	Nfld NS Que Ont Yk Frank
	Obj: To carry out comprehensive research or provide geologically based est their discovery; 3) provide advice	timates of Canada's mir	meral re	sources; 2) provide	guidelines for
	NTS: 12 I; 11 F; 21 E; 31 H; 22 A,B,G,	H; 42 D,E; 68 H				
660006 ⁻ (2531)	Granite studies in the Ennadai-Rankin Inlet region	Davidson, A	P	-	SG	Kee
	Obj: To classify the granitic rocks ac parameters where available and to deposits.					
	NTS: 55 E,F,K,L; 65 H,I					
660009* (2531)	East Arm of Great Slave Lake, District of Mackenzie	Hoffman, PF	Р	-	BS	Mack
	Obj: To refine existing stratigraphic rocks; to determine source regio depositional environments and rec	ns and dispersal patte	rns in	the sedime	ntary fil	1; to determine
	NTS: <u>75</u> E, <u>L</u> ,K; <u>85 H</u> , I					
670002	Operation Bylot	Jackson, GD	Р	-	NC	Frank
(2531)	Obj: To provide a reconnaissance ged interpret the broad geological fr	ological survey of a pamework and outline are	orevious as of po	ly unmappe stential ec	d area a onomic in	nd describe and terest.
	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 information in both of these fie potential - particularly petroleum NTS: 59 A,B	elds; a primary purpose	e is to	aid in ev	aluation	

Project		Project				
Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.
670576* (2522)	Canadian Triassic Ammonoidea and Bivalvia	Tozer, ET	ISPG	Р	OP	Yk <u>BC</u> Alta
	Obj: To describe and assess biochronol refine methods for dating Triass		Triassic	: Ammonoide	a and Biva	alvia in order to
	NTS: 94 B,K,N; 106 D; 116 B,C; 92 0;	9,3 0				
680012 ⁻ (253)	Paleomagnetic study of Proterozoic red beds of the western Canadian Shield	McGlynn, JC	Р	-	-	Sask Kee
	Obj: To obtain paleomagnetic pole por Precambrian Shield for purposes of		roterozo	ic red bed	sequences	s in the western
	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 b to the geoscientist; to develop n the sedimentology laboratories.					
680023* (2562)	X-ray diffraction analyses and mineralogical studies	Harris, DC	EGM	MC	Min	<u>Ont</u>
	Obj: To provide X-ray diffraction ana NTS: 42 D	lyses and mineralogical	studies	in suppor	t of Branc	h projects.
680027 (2551)	Surficial geology, Tawatinaw area Alberta	Richard, SH	TS	-	RP	Alta
	Obj: To map, describe and explain th (83 I) in central Alberta in order planning, agriculture, urban and determine the Quaternary history	er to provide geology a industrial development,	nd terra	in informa	tion perti	nent to land use
	NTS: 83 I					•
680031 (2551)	Quaternary stratigraphy of Old Crow Basin and Porcupine River Valleys	Hughes, OL	TS		RP	Yk Mack
	Obj: Through investigation of Quaterna Quaternary stratigraphy and hist vertebrate paleontology and arche	ory of the region and to	o provid	e a geolog	ical frame	
	NTS: 106 E,F; 115 P; 116 I, N E½, O,P	; 117 A				
680047* (2552)	Geomorphic processes, Mackenzie Valley-Arctic Coast	(Mackay, JR Prof)	TS	-	GPEG	Mack Yk
	Obj: To investigate the processes inv conditions, in order to understan in northern Canada					
	NTS: 85; 95; 96; <u>97 F</u> ; <u>107 B-E</u> ; 117 D	; 106 F,I,P; 116 I,N-P				
680060* (2561)	Geology of silver and gold deposits in Canada	Thorpe, RI	EGM	EG	MDG	Ont Que Mack BC
	Obj: To carry out comprehensive reseat 1. support or provide geological 2. provide guidelines for their 3. provide advice to government	ly based estimates of C discovery;	anada's	mineral re		order to:

3. provide advice to government for mineral policy and related matters.

NTS: 32 C,D,E; 42 A,B,C,D,E; 41 P; 76 E; 86 H; 103 F,G; 53 B

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	Р	MaP	<u>Frank</u>
	Obj: 1. To improve the understanding of parts of the Sverdrup Basin; 2. to establish a biostratigraphi 3. to evaluate the economic poter	ic framework for Carboni				
	NTS: 49 B,C,F,G,H; 340 A,B,C,D; 560 A;	78 G; 79 B; 89 A; 88 H				
680066 (2511)	Geology of the Cariboo Mountains, British Columbia	Campbell, RB	С	-	CMg	BC
	CURRENPM MEORNATION fir			rts of Que	snel Lake	(93 A) and Canoe
	NTS: 83 D; 93 A,H	·				•
680071	Alkaline rocks in Canada	Currie, KL	Р	-	PET	-
(2531)	Obj: To identify and examine occurre development mode of emplacement a		in Ca	nada, and	to explai	in their origin,
680081* (2571)	High resolution aeromagnetics (experimental surveys)	Olson, DG	RGG	RG	EAO	Ont Que Man BC
	Obj: To execute, according to prescrib gradiometer surveys, over areas effectiveness of the GSC aeromagn	selected and defined	by mana	gement, as	a means	romagnetic and/or of testing the
	NTS: Pts <u>30 M,N</u> ; 92 F; 52 D,E					
680090 (2523)	Identification 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 minerals and elements submitted b					
680091 (2523)	Clay and clay minerals investigation	Foscolos, AE	ISPG	PG	GC	-
	Obj: To improve and develop technique Canadian coals; to develop better analyses of clays and clay mineral crystal lattice structure of clasffect: (1) the degree of sediment from source rocks which carry her	er techniques for quant ls in sedimentary rocks a ay minerals. These stu nt diagenesis and oil ge	itative and coal udies a	, semi-qua s; to condu lso determ	ntitative uct resear ine those	and qualitative ch related to the parameters that
680093* (2522)	Upper Silurian and Devonian biostratigraphy western and northern Canada	Pedder, AEH	ISPG	Р	MaP	Sask Man Alta BC Yk Frank Mack
	Obj: Elucidation of the sequence of Up northern Canada so that correlat illustration of fossils that Paleoecological and biogeographi different time ranges in differer	tions of strata of the have, or are expected c analyses of species	se ages to ha and ot	can be ac ive, biost her taxono	chieved. ratigraph	Description and ic significance.
	NTS: 88 A,B,D; 49 A,B; 59 A; <u>82 B; 84</u>	J				
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 biostratigraph integrate this framework with palynomorphs and brachiopods; to over relatively short distances. use of conodonts.	zonations based on ot fix time lines in areas	her for where s	ssil group trata unde	os, such ergo comple	as graptolites, ex facies changes
	NTS: 49; 57; 58; 59; 68; 69; 78; 89; 3	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 <u>NS</u> Que PEI
	Obj: To obtain information on local ar economic geology, search for oil					
	NTS: 12; 21; <u>11 F,G,K</u> ; 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	PBG	NS NB Nfld PEI Yk Mack Frank
	Obj: To establish a comprehensive biost reconstructgeologicaleventsanded sedimentological and geophysical st Carboniferous basins for resource	ologicalenvironments,ass udies,facilitatingadete	sistothe	rdisciplin	estocarryo	outstratigraphic,
	NTS: 11 E; 1; 2; 11; 12; 95					
680114 (2561)	Development and supervision of mineral deposits data bank	Garson, DF	EGM	EG	MRIS	-
	Obj: To develop files of data on mineral d the Geological Survey of Canada an Department and with a National Syst are involved:	id, as far as it is practi	cal, com	patible wi	th related	I files within the
	 documentary files of reports, computer processable files. 	maps and other publishe	ed and u	npublished	informati	ion and
690005 (2524)	Structural geology of norther Yukon Territory and northwestern District of Mackenzie	Norris, DK	ISPG	CG	CG	Yk Mack
	Obj: Criticalevaluationofthestructura and adjacent coastal plains for the d bearing on the hydrocarbon poten	ocumentation of the nature				
	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 emp specifictypesofmineraldepositsin integration and processing of va	geographically-delineate	edareasa			
690061	Operation Penny Highlands	Jackson, GD	Р	-	NC	Frank
(2531)	Obj: To provide a reconnaissance geolog geological framework and outline				d describe	and interpret the
	NTS: 16 E, K-M; 26 H,P; 27 A-B; 36 P;	37 A,B				
690064* (2551)	Quaternary palynology	Mott, RJ	TS	-	PG	NS NB Que
	Obj: To study the quaternary palynology service to other scientists within t and agencies and non-government	he Division, Branch, or Dep				
	NTS: 11 D,E,F,K,N; 20 P; 21 A,G,H					
690065 (2551)	Surficial geology, St. Anthony- Blanc Sablon map-areas, Newfoundland	Grant, DR	TS	-	RP	Nf1d
	Obj: To map, describe, and explain th	ludingdataapplicabletol ration surveys; and age of Quaternary featu	andinver ures and	ntorysurve; of histor	ys,enginee y of Quate	eringdevelopment,

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
(2020)	Obj: 1. To prepare publications on the Foraminifera of the onshore 2. To prepare publications on the NTS: 92 B; 103 F,G	and offshore rocks of the	e Pacifi	c Margin.		
690090 (2562)	Development of methods for the analysis of geological materials	Lachance, GR	EGM	MC	Min	-
	Obj: 1. to develop new methods in or which the Section does not he for elements or constituents the range of concentration at the objectives outlined in a the submission of a suite or available to the analytical	ave prescribed methods; for which the Section d nd/or improve accuracy a) may be oriented towards f unusual samples; ii) p	ii) meet oes not nd/or im s: i) the oroviding	demands where demainds when the demainds when the demainder of the demaind	hen analy ribed met uctivity. of a spec	ses are requested hods; iii) extend
690095* (2552)	Properties and provenance of glacial sediments	Shilts, WW	TS	-	SMT	Que
	Obj: 1. To build a data bank compricanada. 2. To define till provenance re 3. To clarify mechanisms and sc 4. To relate regional chemical biological problems that can 5. To develop and/or evaluate i on thickness, character and 6. To derive from the record of environmental changes and se	gions based on data from ale of glacial dispersal and petrologic propert be defined areally. nstrumentation and field properties of glacial se lake bottom sediments in	objecti of rock ies of t techniq diments.	ve 1. s, minerals ill to eng ues capable	s and tra gineering, e of prov	ce elements. , geomedical, and iding information
	NTS: <u>21 E,L</u>					
700018 (2532)	Paleomagnetism and rock magnetism instrumentation and technological development	Christie, KW	Р	-	PMag	Ont
	Obj: To contribute to the developmen 1. by designing, building, test magnetic properties of rocks 2. by developing new technique standard samples and for the 3. by improving on the design efficiency of the laboratory	ing and calibrating instand minerals; s or systems for the ro processing of data resu of existing instrument	trumenta utine me Iting fr ation or	tion requireasurement om such med technique	red for t of magnet asurement as inorde	tic parameters of s; r to improve the
700027* (2521)	Comparative studies of structural prototypes and/or sedimentary environments.	Cook, DG	ISPG	RG	-	-
	Obj: The objective is to familiarize specific conceptual models of de such environments and to critic	epositional environments	to enabl	le the part	rvations icipants	that may identify to both recognize
700034 (2522)	Devonian biostratigraphy of the northern Yukon Territory and adjacent District of Mackenzie and Alberta	Norris, AW	ISPG	Р	MaP	Yk Mack Alta
	Obj: 1. delineation of facies distri 2. identifying and determining areas; 3. determining distribution of 4. obtaining more information of Devonian boundaries in Canad	ranges of fossils for manal provinces and palon the Upper Silurian/Lo	refining eogeogra	zonation a	and corre onian sea	s; and
	NTS: 116 (E 3/4); 117 (S½); 106 (W½)		,G			
700047	Operation Finlay	Gabrielse, H	С	-	CMG	BC
(2511)	Obj: To establish the stratigraphy, be related as an aid to regiona		framewo	rk to whic	h the min	eral deposits may
	NTS: 94 C,E,F					_

		Destant				
Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
700056 (2551)	Surficial geology, Cape Breton Island, Nova Scotia	Grant, DR	TS	-	RP	NB NS
	Obj: To map, describe and explain the 1. areal geological information industrial development and mi 2. knowledge of the stratigraph, events and environments inclu	n with particular refer neral exploration, y and age of Quaternary	ence to	the need es and of	ls for da the histon	ta required for ry of Quaternary
	NTS: 11 D,E,F,K,N; 21 A,H					
700059* (2561)	Geology of copper and molybdenum deposits in Canada $-$ I	Kirkham, RV	EGM	EG	MDG	-
	Obj: To carry out comprehensive resea 1. support or provide geological 2. provide guidelines for their 3. provide advice to government	ly based estimates of Ca discovery;	ınada's ı	mineral res	um deposit sources;	s in order to:
700092 * (2542)	Surficial geology and geomorphology, Mackenzie Bay — Continental Shelf	Blasco, SM	AGC	EMG	SG	Arctic Offshore
	Obj: To resolve the stratigraphic an sediments of the Beaufort contin delineation of permafrost; the engineering design criteria for resolution of the Quaternary h geomorphic processes operating of to conduct surficial marine geo coastal waters.	ental shelf to provide a assessment of offshore offshore structures for istory of the shelf ar n the shelf; and to conti	the geole aggrege petrole the color of the c	ogical fra ate suppli eum explor dentifice elopment of	mework nees; the eation and cation of the tech	cessary for: the establishment of production; the sedimentary and nology necessary
	NTS: 87; 97; 107; 117					
710020 (2551)	Surficial geology and land classification, Mackenzie Valley Transportation Corridor	Hughes, OL	TS	-	RP	Mack Yk
	Obj: To map, describe and explain the organic (muskeg) cover of the Mathematical terms of the ma	ckenzie Valley Transport geology and terrain, b nation in connection with construction; and	ation Co bearing	orridor in particular	order to: ly in min	nd the needs of
	NTS: 96 C-F; 106 H-K,L,M,N,O,P; 107 A	A; 97 C; 116 N,O,P				
710022* (2522)	Carboniferous and Permian biostratigraphy and coral faunas, western and northern Canada	Bamber, EW	ISPG	Р	MaP	Frank Mack Yk BC <u>Alta</u>
	Obj: Establishment of faunal sequent Paleozoic of Alberta, British biostratigraphic reference suc Description of coral and other facilitate its use by other work	n Columbia, Yukon, and cession in surface and r faunas from these ard	d Distr d subsum eas to	ict of Ma rface expl document	ackenzie, oration o the above	for use as a of these areas. succession and
	NTS: 49; 59; 69; 78; 79; 82 G,H,J,M,N	1, <u>0</u> ; <u>83 B,C</u> ,D, <u>F</u> ,G; 92; 93	3 1,0; 9	4-95; 103-	106; 115-1	17; 340; 560
710023 (2531)	Granite studies in the Slave Province (Phase 1)	Davidson, A	Р	-	SG	Mack
	Obj: To classify the granitic rocks parameters where available, and	according to age, geolog to relate them to the re	gical an egional	d chemical geology and	nature, u d to miner	sing geophysical al deposits.

NTS: 85 I,P

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
710033 (2521)	Northern Basin Analysis Program: Redstone and Great Slave Lake map-areas	Williams, GK	ISPG	RG	М	Mack		
	Obj: 1. To maintain an up-to-date invo- and lithologic logs within th 2. To provide an improved unders 3. To compile, in a form suitable far accumulated. NTS: 85; 95	e Great Slave Lake and tanding of the geologica	Redstone al histor	Map-areas y of the n	orthern C	anadian mainland.		
710059* (2543)	Stratigraphy and sedimentology of the Mesozoic and Tertiary rocks of the Atlantic continental margin	Jansa, LF	AGC	EPG	SGBM	Atlantic Offshore		
	Obj: To determine stratigraphy and sedimentology of the Mesozoic and Tertiary rocks of the Atlantic continental margin and the basin; delineate distribution of clastic, carbonate, evaporite sequences, their thickness, composition, provenance, current patterns, depositional environment and porosity development as an aid to the resource evaluation of this region.							
710061* (2543)	Compilation of geoscientific data in the Upper Paleozoic basins of southeastern Canada	Howie, RD	AGC	EPG	PBG	NS NB. Nfld PEI		
	Obj: Compile data for a detailed stud NTS: <u>1; 2; 10; 11</u> ; 12; 14; <u>20</u>	y of the petroleum pote	ential of	the Magda	len and S	ydney basins.		
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 biostratigraphi in offshore wells of the Atlan correlation, and to accurately r the economic evaluation of the r	tic Shelf, to form the econstruct geological e	e basis	of local,	regional	l and world wide		
710091* (2422)	Palynological studies of Mesozoic and Tertiary coal measures in western and northern Canada	Sweet, AR	·ISPG	Р	MiP	BC Alta Yk		
	Obj: 1. To establish palyno-stratigra petrological, sedimentologica 2. Where applicable to correlate 3. To describe and classify reobjectives.	l and structural interp coal seams by means of	retation spore a	s of coal	basins. histogram	S.		
720044	NTS: 82 B,C; 83 C,E,F; 106 E; 117 A; Reconnaissance of Mesozoic	Wall, JH	ISPG	Р	MiP	Frank		
(2522)	Foraminifera of Arctic Islands							
	Obj: To assess the assemblage compos Foraminifera in the Arctic Isl stratigraphy.	ition, paleoecology an ands in order to bett	d biochr er defi	onological ne Mesozoi	signific c subsur	cance of Mesozoic face and outcrop		
	NTS: 49; 59 E,G,H; 69; 79; 88; 89; 98	; 340 B			•			
720052 (2531)	Geology of Indin Lake (86 B) Obj: To revise and interpret to moder only through early reconnaissance	Frith, RA n standards the geology e and semi-detailed map	P of the pping.	- Precambrian	BS n terrane	Mack of the area known		
	NTS: 86 B							
720056 ⁻ (2531)	Paleomagnetism of the dykes of west Greenland	Fahrig, WF	Р	-	PMag	-		
	Obj: To determine the paleomagnetism possible correlation of the rocks	of the diabase dyke swa of this area with those	rms of we of Baff	est Greenla in Island a	and in ord and the co	ler to examine the ast of Labrador.		

		Destant					
Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
720062 (2531)	Volcanic rocks of the Prince Albert Belt	Schau, M	Р	-	NC	Frank Kee	
	Obj: To determine the structure, stra Group and relationship to the a evaluate the mineral potential of	djacent gneisses and th					
	NTS: 47 A,D 56 J,K	•					
720066 (2526)	Evaluation of Canada's petroleum potential	Procter, RM	ISPG	PRAS	-	-	
	Obj: To create and maintain an inventory of oil and gas resources of all regions of Canada, both discovered (reserves) and undiscovered (potential); to provide data for the analysis of costs and supply of oil and gas; to develop methods of predicting size, rate of discovery, quality, reservoir character and other attributes of the resource base in order to assist in the development and analysis of energy policy.						
720071* (2573)	Airborne Gamma-Ray Spectrometry (Experimental Surveys)	Holman, PB	RGG	RGP	RG	Man <u>NB</u> Ont <u>Que</u> Sask <u>Nfld</u> NS	
	Obj: 1. Provide acceptable standards	s for the acquisition	n and	compilatio	n of air	rborne gamma-ray	
	<pre>spectrometic data. 2. Demonstration of suitability o by:</pre>	f airborne gamma-ray spe	ectromet	ry methods	in variou	s parts of Canada	
	- conducting orientation surve - conducting reconnaissance su - conducting detailed follow-u 3. Have available the technolog monitoring is required.	urveys maps. up surveys of areas of i	interest	located b	y URP prog		
	NTS: 31 E,L,M; 21 0,J; 11 E; 64 H; 74	I,J,K					
720072 (2522)	Paleozoic ostracodes of Canada	Copeland, MJ	ISPG	Р	OP	Ont Que NB NS Nfld	
	Obj: By means of microfaunas and non- strata among the Paleozoic sedin potential of these rocks.						
	NTS: 11 E,F,K; 12 B,E,L; 21 A,P; 22 A,	,B,H; 30 L.M; 40 I,P					
720073 ⁻ (2524)	Petrographic Analysis of Saskatchewan Lignites	Cameron, AR	ISPG	CG	CT	Sask	
	Obj: 1. Petrographic characterization 2. Determination of vertical and 3. Relation of petrographic compo	lateral changes in petr	rographi	c composit	ion		
	NTS: 62 E; 72 F,G,H						
720078 (2551)	Diatom analysis and paleoecological studies of Quaternary sediments	Lichti-Federovich, S	TS	-	PG	Frank Ont.	
	Obj: 1. To develop diatom analysis as	a paleoecological tool	in conj	unction wi	th palyno	logical and plant	
	megafossil analyses.2. To provide paleoecological into of Recent and Quaternary sedin		atigraph	ic correla	tions		
	NTS: 38; 39; 48 49; 59; 340; 560; 41	I; 31 E					
720080 (2571)	Interpretation of aeromagnetic surveys	Kornik, LJ	RGG	RG	AI	Ont <u>Man</u> Sask	
	Obj: To express the significance of as patterns in support of mineral programs and to integrate this in	exploration, geologica	al mapp	ing and r	adioactive	l and metamorphic waste disposal	
	NTS: <u>52 B</u> ,E; 74 I						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
720081 (2551)	Surficial geology and geomorphology of Central Ellesmere Island	Hodgson, DA	TS	-	RP	Frank .	
	Obj: To provide an inventory of surfice and permafrost conditions, with implementation of territorial Lagrangian and related activities.	n particular reference and Use Regulations and	to term	rain info	rmation pe	ertinent to the	
	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 or presentation.	f airborne gamma-ray s	pectrome	try data	collection	n, analysis and	
	NTS: 31 C						
720098 (2521)	Lower Paleozoic stratigraphy, southern Rocky Mountains	Aitken, JD	ISPG	RG	М	BC Alta	
	Obj: To determine the nature, thickn region.	ess, distribution and o	rigin of	Lower Pa	leozoic fo	ormations of the	
	NTS: 82; 83						
720102 (2550)	Marine Science Atlas of the Beaufort Sea	Pelletier, BR	TS	-	SP	Mack Frank Yk	
	Obj: To compile known marine aspects of the Beaufort Sea including oceanography, biology, bathymetry, geology, geophysics, etc., in order to present a marine science atlas of the Beaufort Sea that will include maps, sketches, photographs and graphs. This atlas will serve the public, universities, industry and various agencies of government on engineering, environmental and resource-development programs.						
	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	Bell, JS	AGC	EPG	SGBM	Atlantic Offshore	
	Ob CURRENT e INFORMATION sedimentary, basins of Eastern C BafNOsty, Ane All ABLE rovince	ogical appraisal of th anada, including those s and Gulf of St. Lawrenc	le poten on the ce and th	tial oil Atlantic d e St. Lawr	and gas r continenta ence and H	esources of the 1 margin and in udson Platforms.	
720104* (2543)	Regional subsurface geology of Mesozoic and Cenozoic rocks of the Atlantic continental margin	Wade, JA	AGC	EPG	SGBM	Atlantic Offshore	
	Obj: To provide a regional subsurfactor Canada as a basis for 1. the Departmental Hydrocarbon 2. to establish a framework for geochemistry, plate tectonics	Inventory, other specific studies					
	NTS: <u>21 A,H</u>						
730001* (2572)	Geochemistry of metallogenesis and primary halos	Boyle, RW	RGG	RGC	-	Ont NB NS Alta Sask Man	
	Obj: 1. To ascertain the trend of metallogenesis from the Precambrian to the present. 2. To ascertain the nature of primary halos and zoning relationships of various elements e.g. Ag, Au, U, Li, Rb, Cs, As, and Sb and Bi in various epigenetic deposits. 3. To study the geochemistry of the platinum metals. 4. To revise the geochemistry of silver (GSC Bull. 160). NTS: 31 C,F; 40 P; 41 A; 21 A,O,P; 11 D,E						
	>= 0,1,1 .0.1,1	- , -					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
730013 (2552)	Quaternary geology inventory — Southern Keewatin	Shilts, WW	TS		SMT	Kee		
	 Obj: 1. To produce a map of southern Keewatin showing surficial geology at a scale of 1:500,000 from Chesterfield Inlet south to Manitoba and east of ~97°00'. 2. To produce maps for open filing at scales of 1:125,000 based on 1:250,000 NTS sheets, 3. To collect regional samples of till to describe its sedimentology, geotechnical properties, and geochemistry. 4. To elucidate the history of the south and central portions of the Keewatin Ice Divide. 							
	NTS: 65 A-C,F-K,N-P; 55 D,E,F,L,K,N,C); 66 A-C,F-K,N-P; 56 D						
730019* (2551)	Light drilling and sampling research and support	Nixon, FM	TS	-	RP	-		
	Obj: To support Section and Division requirements for subsurface information, and to contribute to this aspect of Geotechnique with emphasis on light equipment and remote work by (a) maintaining an expertise in drilling and sampling technique and equipment in order to evaluate proposals and suggest possibilities, and (b) developing and co-ordinating systems and procedures to be employed in Division personnel on appropriate problems.							
730027* (2551)	Late Cenozoic fossil insects and Late Cenozoic paleoecology	Matthews, JV Jr.	TS	-	PG	Ont Que		
	Obj: To provide biostratigraphic and an aid to interpretation of the	paleoecologic informati ir age and environment o	on on la f deposi	ite Cenozoi ition.	c terrest	trial sediments as		
	NTS: 21 E,L; 31 G,H,I							
730035* (2511)	Operation St. Flias CURRENT INFORMATION, NOT aAVAILABLE minera	Campbell, RB structure, metamorphism I potential of the area.	C , and re	- lationhsip	CMG of intro	Yk <u>BC</u> usive and volcanic		
	NTS: 114 P,0; 115 A-C,F,G							
730037 (2511)	Stratigraphy, structure, and metallogeny of Pelly Mountains, and Yukon Plateau, Yukon Territory	Tempelman-Kluit, DJ	С	-	CMG	Yk		
	Obj: To provide information on the remaineral deposits in Pelly Mounts	elationship between stra ains and adjacent Yukon	tigraphy Plateau.	, structur	e, sedime	entary facies, and		
	NTS: 105 A,F,G,H							
730040 (2531)	Archean volcanic studies in the Bear-Slave Province	Lambert, MB	Р	-	BS	Mack		
	Obj: To determine 1) stratigraphic ar and types of volcanic eruptions deposits to volcanic stratigraph	and their environment	of depo	tion of vo	lcanic ce) relati	ntres; 3) sequence onship of mineral		
	NTS: 76 B,C,F,G							
730042 (2561)	A study of certain accessory elements in Canadian Sulphide assemblages and minerals	Sangster, DF	EGM	EG	MDG	-		
	Obj: To determine the concentration ores and sub-ores.	ranges and averages of c	ertain e	lements in	selected	Canadian Sulphide		
730043 (2531)	Volcanic rocks of the Appalachian region	Bostock, HH	Р	-	BS	NB NS Nfld		
	Obj: To determine the physical volcar of the volcanic rocks of the App and to the formation of associa	alachian Orogen in order	stry, en to relat	vironment, ce them to	age and the evolu	tectonic relations tion of the orogen		
	NTC: Dt- 0 E/10 E. 10 H							

NTS: Pts 2 E/12, 5; 12 H

Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.		
730044 (2531)	Granite studies in the Appalachians	Currie, KL	Р	-	PET	NS Nfld NB		
	Obj: 1. To establish a set of c granitoid rocks in the classes;	riteria based on field, pe Appalachian region can be						
	to establish the phys history, and subsequent	deformation of each of the	se classes;	;		s, solidification		
	 to relate these classes to evaluate the econon possibilities. 					enhancing these		
	NTS: 2 E; 12 A,H; 21 G,H							
730051 (2521)	Completion of reconnaissance geology, northern Ellesmere Isla	Trettin, HP and	ISPG	RG	AI	Frank		
	Obj: To prepare terminal report detailed. To compile the E program.	ts accompanied by maps of ureka sound sheet (NTS 340,	the region 560, 120)	at the s of the 1:	cale of 1 millior	1:250,000 or more n geological atlas		
	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	М	<u>Mack</u> ·Yk		
	Obj: Firstly, to establish a coherent picture of Helikian and Hadrynian events in western and northwestern Canada, and secondly, to emphasize study of those events that may have created exploitable mineral and/or hydrocarbon deposits.							
	NTS: 95 L,M; 106 A,B,C,F,G,H; 10	05 P						
730062 (2523)	Development of extraction, identification and correlation systems for organic compounds from sedimentary rocks and crude	Snowdon, LR	ISPG	PG	GC .	-		
	Obj: To develop, improve and ad the identification of petr develop and/or apply statis outside organizations in or data handling and storage s	oleum source rocks and to stical methods to the geoch der to correlate crude oils	assist in emical data	source re generate	ock-oil (d in the	correlations. To GSC labs and from		
730067* (2511)	Geothermal Energy Resources in Canada	Souther, JG	С	-	CMG	<u>BC</u>		
	Obj: To make an inventory of the the chemistry of their wa geothermal results.							
	NTS: 92 J							
730072 (2541)	Bedrock and surficial geology- Grand Banks	King, LH	AGC	RR	SBG	Atlantic Offshore		
	CURRENTINFORMATION AVAILABLE 10	Helge and understanding of setting of the Grand Banks	the surfact; and to a	ce and sub id in the e	surface economic	geology, geologic evaluation of the		
	NTS: 1; 2; 11							
730081* (2541)	East coast Offshore surveys	Macnab, RF	AGC	RR	GPS	Atlantic Offshore		
	Obj: A detailed, systematic map and margin in the Canadian 1. To measure and describe	offshore.	, ,					
	offshore; 2. to define the broad pata 3. to disseminate this info files, publications, etc	rmation through a variety o						

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
740003* (2543)	Geological interpretation of geophysical data as an aid to basin synthesis and hydrocarbon inventory	Grant, AG	AGC	EPG	LBG	Atlantic Offshore		
	Obj: To define the geologic structure Eastern Canada.	e and history of the se	dimentar	y basins	in the of	fshore regions of		
740004	NTS: 1-16; 27; 28; 38; 39							
740004 (2543)	Biostratigraphic history of the Mesozoic-Cenozoic sediments of the Grand Banks, Northeast Newfoundland and Labrador Shelves (based on Foraminifera and Ostracoda)	Gradstein, FM	AGC	EPG	LBG	Atlantic Offshore		
	Obj: To establish and maintain a comprehensive biostratigraphic and depositional environmental framework of the Mesozoic-Cenozoic sediments of Grand Banks and Labrador. Utilize North Atlantic Basin control to more clearly establish the relationship of the Eastern Canadian margin.							
	NTS: 1; 2; 3; 11; 12							
740016 ⁻ (2531)	Geology of the Island Lake map- area (53 E), Manitoba and Ontario	Herd, RK	Р	-	SG	Man Ont		
	Obj: To establish the geology of the intrusive, extrusive and sedimentary rocks of the map-area; and provide a tectonic synthesis suitable for resource evaluation.							
740017	NTS: 53 E							
740017 (2531)	Metamorphism in the Canadian Shield	Fraser, JA	Р	-	NC	Que, Ont Man Sask Nfld, Mack Frank Kee		
	Obj: To provide suitable maps and stud in such a way as to make a unique and to provide regional and local evaluating mineral resource poter	contribution to the unde	erstandi hic grad	na of the	develonme	nt of the Shield.		
740019 (2531)	Archean felsic volcanic complex near Regan Lake, District of Mackenzie, NWT	Lambert, MB	Р	-	BS	Mack		
	Obj: 1. To map in detail the felsic vo 2. to establish criteria for the in the Slave Province; 3. to establish a model for the h part of the Slave Province to	identification and inte sistory, environment and	process	ses of vol	canism th	at relate to this		
	NTS: Pts of 76 B,C,F,G	p. 0	041 00 07	(5.01.011011	111 61173	ar ea.		
740041* (2521)	Comparative studies of geological types	Cook, DG	ISPG	RG	-	-		
	Obj: To examine field occurrences of l Institute with the local geology elucidated may inform and communi	v and the interpretatio	on there	of, so th	nat dener	al principles so		
740042 (2522)	GSC Workshop travel — Micropaleontology Section	Higgins, AC	ISPG	Р	MiP	-		
	Obj: To exchange information on curren other microfossils, during works generally improve communication b	hops of GSC's specialis	sts: to	plan prod	rams in	foraminifers and these fields and		
740054 (2551)	Geological variability of marine deposits, Ottawa- St. Lawrence Lowland	Gadd, NR	TS	-	RP	Ont Que		
	Obj: To evaluate the stratigraphic, engineering behaviour of marine of	geomorphic and historiays, with special refer	rical f rence to	actors af	fecting es.	the natural and		
	NTS. Pts of 31 C	•						

NTS: Pts. of 31 G

		D. d. d.						
Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
740062*	Fraser Delta sedimentation	Luternauer, JL	С	-	PMG	BC		
(2512)	Obj: To provide a geological/sedimen for general land and waterfront				delta of 1	the Fraser River		
	NTS: <u>92 G</u>							
740065 (2551)	Surficial geology inventory, Banks Island	Vincent, J-S	TS	-	RP	Frank		
	 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: aid in the implementation of the Territorial Land Use Regulations; be pertinent to engineering construction, petroleum exploration and related activities; provide data relative to terrain sensitivity rating; and elucidate the Quaternary history of the region. 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	TS	-	RP	Frank .		
	Obj: Map, describe and explain the sprovide areal knowledge of geolo land use management and various history of the region.	gy, geomorphology and ter	rain as	background	d informati	ion suitable for		
	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		
	Obj: To map, describe and explain the (31 G, 31 F (parts of) and 31 pertinent to land use planning engineering construction and to	B (parts of) in order t ng, agriculture, urban	o provi	de geology ustrial d	<pre>/ and terr evelopment</pre>	ain information		
	NTS: Pts. <u>31</u> B,C,F, <u>G</u>							
740072* (2551)	Surficial geology of Newfoundland	,	TS	-	RP	Nf1d		
(2301)	Obj: To map and describe and explain the unconsolidated deposits and landforms in order to provide areal knowledge of geology and terrain as background information relative to land-use planning, mineral exploration, location of granular deposits, community water-supply problems, forestry, urban and industrial development, and various aspects of engineering construction, and to determine the Quaternary history of the region.							
	NTS: 1; 2; Pts. <u>11 0</u> ; <u>12 A,B,G,H</u>	•						
740081* (2572)	Environmental Geochemistry	Jonasson, IR	RGG	RGC	ER	Yk Mack BC Alta Sask Ont Que		
	Obj: 1. Understand the nature of phelements in the surficial env. 2. Coordinate subdivision activity. 3. Provide appropriate surficial objectives. 4. Coordinate Division and GSC at NTS: 74 H,I; 64 E,L; 82 F,G; 92 F; 120 K,L	rironment. ities relating to environ il chemical and lithocher activities for Submarine	mental m mical su Hydrothe	atters. pport to rmal Resea	the Nahanr ırçh Task G	e dispersion of		
740084 (250)	Silurian-Ordovician macro- biostratigraphy of Anticosti Island, Quebec	Bolton, TE	DGO	<u>.</u>	SP	Que, NB NS Kee Ont		
	Obj: To obtain data on the Silurian Maritime regions to provide: 1. precise descriptions for all lithology, facies change, fact 2. descriptions of significant factorial and regional correlation NTS: 22 H; 12 E,F,L; 18; 22 A,B; 11 F	l appropriate stratigraph unal content; Fauna for each stratigraph ons consistent with the d	hic unit	s of the				
	,	, .0, .0, 01 0,11						

740091* (2574)	Borehole Geophysics (Electrical and Magnetic Techniques)	Dyck, AV	RGG	RGP	BG	BC <u>Ont</u> <u>Que</u> NB <u>Man</u> Sask <u>Nfld</u>	
	Obj: To contribute to the development efficiency and effectiveness of engineering and geological mappi	mineral exploration pr	hysics tec ractices,	hnology a geophysic	s a means al techni	of improving the ques applied to	
	NTS: 41 I, J; 52 B; 31 F, K; 74 H, I; 64	C,L; 62 I; 32 D,E, 12 /	<u>A</u>				
740092 (2531)	Geology of the Bathurst Inlet Area	Campbell, FHA	Р	-	BS	Frank Mack	
	Obj: To establish the geology of th compile a detailed stratigraph overlying rocks; to relate the Geosyncline.	nic-sedimentological ana	alysis of	the Gou	1burn Gro	oup and related	
	NTS: 76 E,I-P; 77 A,B; 86 I						
740095 (2552)	Quaternary geology — terrain inventory, Kananaskis Lakes	Jackson, LE	TS	-	GPEG	Alta BC	
	Obj: To map, describe, and explain the unconsolidated deposits and the landforms and their susceptibility to modern processes in order to provide areal knowledge of surficial geology and terrain as background information relative to mineral exploration and exploitation, land use planing, forestry, agriculture, urban and industrial development and various aspects of engineering construction and to determine the Quaternary history of the area.						
	NTS: 82 J						
740098* (25 6 1)	Metallogeny of the northern Canadian Cordillera	Dawson, KM	EGM	EG	RMS	BC Yk	
	Obj: To integrate present mineral commodity and regional geological studies in order to: 1. examine the large scale geological controls and distribution of known mineral deposits; 2. assist in planning of future geological mapping; 3. assess the area with regard to its mineral potential.						
	NTS: 116 A,B; 105 A,B; 106 D; 94 K,M,	N; 104 N,O,P, 92 F,L; 8	2 E,K,M			•	
740107* (2572)	Trace elements in sulphides	Jonasson, IR	RGG	RGC	ER	Ont BC Yk Mack Que	
	Obj: 1. To determine the typical cont	ents and ranges of trace	e elements	, includi	ng metals		
	non-metals in ores and ore mi 2. To assess the value of such of rare metals, definition of baseline levels. 3. To provide a systematic geoch	data with regard to class geochemical and metallog	genic provi	nces, est			
	NTS: 31 M; 42 A; 32 D; 31 A,B,C,F,P;	94 F,G; 104 N; 105 A-C,	F-H,K,0,P	; 106 A,B	,C,E,F		
740110 ⁻ (2521)	Carboniferous and Triassic strata of Appalachian region	Geldsetzer, HHJ	ISPG	RG	M	Nfld NS PEI NB Que	
	Obj: To determine the stratigraphy, s geometry of the Middle Devoni provenance, current direction controls and origin of the assoc resource potential.	an to Triassic strata; and environment of depo	to recon sition; a	struct t nd to de	he tector termine tl	nic development, he distribution,	
	NTS: 1; 11; 12; 21; 22						
750006 (2531)	Stratigraphy and petrology of the Natkusiak Basalts, Victoria Island	Baragar, WRA	Р	-	SP	Frank	
	Obj: To determine the variation in c level, to obtain representative the composition of the flows and sills, and to obtain contributor history in the northwestern Cana	bulk compositions of the dassociated copper pros ry information towards a	ne flows, t pects and	to determ between t	ine relat he flows	ionships between and accompanying	
	NTS: Pts. of 77 G: 78 B: 87 E.F.G.H:	88 A.B					

Project Leader

Div.

Subdiv.

Sec.

Prov.

Project Number

Title

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
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 reseat 1. support or provide geological 2. provide guidelines for their 3. provide advice to government	ly based estimates of C discovery;	anada's ι	ıranium and	! thorium	in order to: resources;
	NTS: 41 I,J; 52 A,H; 64 E,L; 74 G,H,I	; <u>65 75; 21; 22 M; 23 D</u>	; 12			
750011 (2531)	Geology, petrology and economic potential of the anorthosite suite in southern Labrador	Emslie, RF	Р	-	PET	Nf1d
	Obj: 1. Comparison of rock types, rock of the Grenville Front; 2. Estimation of the grade of re 3. Determination of age of the a 4. Investigation of the economic	gional metamorphism in northosite suite of roc	this part	of Grenvi	lle Provi	
	NTS: 13 B,C,E,F,G					
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
	Obj: To describe the Lower Cretaceous and to collect fossil floring environments Av Avica Ble Laic geological model that will be of other regions.	fauna; to provide data attempt to determin	on the e	distributio ia useful	on and co in deter	ntinuity of coal mining the sub-
	NTS: 82 G,J,0					
750019 (2511)	Structure and stratigraphy of Paleozoic and lower Mesozoic rocks in Halfway River Map-area Northeastern British Columbia	Thompson, RI	. C	-	CMG	BC
	Obj: To revise Halfway River map-area to map 94 B/3 4 5 6 11 12 CURREND YNFORMATION and MOTURE AND E Pb-Z stratigraphic and structural evo	13, 14 at 1:50 000 sca relation to adjacent a	ale and t reas; to	o study in determine	detail t the region	the structure and nal stratigraphic
	NTS: 94 B					
750023 (2526)	Methodology of petroleum resource evaluation	Lee, PJ	ISPG	PRAS	-	-
	Obj: To provide a reliable, effective abundance.	ve and statistically v	alid meth	nodology fo	or estima	tion of resource
750024* (2523)	Petroleum geology of Tertiary, Mesozoic and Paleozoic strata north of 70° 97-99;	McMillan, NJ	ISPG	PG	PR	Frank
	Obj: To provide a reliable and adequassessment by the Energy Subcommipotential hydrocarbon occurrence	ttee for the areas of h	nework an ydrocarbo	nd Petroleu on potentia	ım, Geolog 1. To do	gy data base for cument proven and
	NTS: 37-39; 47-49; 57- <u>59 E-H</u> ; 67-69;	77-79; 87-89; 97-99; 12	20; 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 adequa of the area's hydrocarbon potent the area.					
	NTS: 97; 107; 117					17

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
750035* (2511)	Biostratigraphic study of Mesozoic rocks in the Inter- montane and Insular Belts of the Canadian Cordillera	Tipper, H₩	С	-	CMG	BC Yk		
	Obj: To determine the biostratigraphi define a geological history and NTS: 92 H,L; 93 E; 94 D; 103 C,F,G; 1	paleogeography in the ev	ozoic st olution	rata, part of the Mes	ticularly sozoic mod	Jurassic, and to el.		
	NIS: 92 H,L; 93 E; 94 D; 103 C,F,G; 1							
750036 (2522)	Silurian and Devonian spores of Canada	McGregor, DC	ISPG	Р	OP	·		
	Obj: To refine palynological methods of dating and correlating Silurian and Devonian rocks of Canada, by 1. identifying and describing Silurian and Devonian spores, 2. determining their value in terms of regional and world wide biostratigraphy and 3. establishing stratigraphic reference sections and zonations for spores in Silurian and Devonian sedimentary basins in Canada.							
750039	Geochemical Information Systems	Ellwood, DJ	RGG	RGC	ER	-		
(2572)	Obj: To provide a liaison between the available data processing facilities and scientists within the geochemistry sub-division to design, implement and document systems to facilitate the expeditious computer processing of machine readable geochemical data, and to manage the archiving of such data.							
750043* (2542)	Consulting advice on physical environmental problems in the coastal zone	Taylor, RB	AGC	EMG	SG	Nf 1d		
Obj: To provide consultation and expertise on environmental problems in the coastal zone of the Maritimes. This advice is to be provided in response to specific requests.								
	NTS: 10 N; 11 D,K; 21 H,P							
750046 ⁻ (2542)	Geochemical transformations and reactions of organic compounds in recent marine sediments	Rashid, MA	AGC	EMG	G	Atlantic Offshore		
	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.							
	 To isolate, identify and characterize various chemo-taxanomic constituents so as to develop guide lines for the interpretations of major geological events. To determine and correlate early diagenetic transformations with long-term diagenesis resulting in 							
	the evaluation of oil and gas4. To understand the role and intrace metals.	fluence of organic compo	unds on s	solubility,	, mobility	and recycling of		
	5. To collect and compile geoch benefit of geologists, geoche	emcial data on sediment mists and other discipli	ary orga ines rela	anic matter ated to org	r to write ganic geoc	e a book for the hemistry.		
750051* (2572)	National geochemical reconnaissance	Hornbrook, EHW	RGG	RGC	-	NB NS Nfld Ont Sask BC Yk Frank		
	Obj: 1. To provide for governments reconnaissance data to indica appraisal purposes and to penvironment. 2. To investigate geochemical values.	te areas of mineral commorovide information on	odity po the nat	tential for ural abund	r explorat dance of	ion and resource		
	NTS: Pts 1-16; 23; 27; 31 C,F; 37; 41							
750055 (2521)	Structural studies in the Mackenzie Arc, Franklin Mountains and Coleville Hills	Cook, DG	ISPG	RG	-	Mack		
	Obj. To southed detected accompanying	- C + 1 1 1		abtain a ol	lannon und	anatanding of the		

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.

NTS: 96 B,C,E,F

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
750061* (2531)	Lower Paleozoic geology of Eastern Canada	Sanford, BV	Р	-	SP	$\frac{Ont}{NB}$ Que	
	Obj: 1. To continue detailed and regi	onal studies of Lower Pa	aleozoic	terrain of	eastern	•	
	Canada, - in northern and eastern off - in the southern regions, de 2. To study all data that becom evaluation of the frontier ba	tailed mapping when reque e available from petrol	ired for	terrain s	tudies.		
	NTS: Pts 30; 31; 40; 41; 52; 21	3 11134					
750063* (2551)	Quaternary geochronology, Arctic Islands	Blake, W, JR	TS	-	PG	<u>Frank</u>	
	Obj: 1. To establish a chronostratign 2. To investigate the suitability range of ¹⁴ C. 3. To determine rates of crustal 4. To reconstruct environments a	y of other methods of age movement.	determi	nations, e	specially	those beyond the	
	NTS: 25-28; 29 F,G; 35-37; 38 F,G;			_			
	97-99; 120; 340; 560						
750068 (259)	Interdepartmental & Intergovernmental Technical Services	Manistre, BE	DGO	-	-	-	
	Obj: To provide technical assistance to other government departments and agencies, particularly in connection with Geoscience Aid projects as required by the EMR/CIDA Memorandum of Understanding. To coordinate intergovernmental agreements, and attachments of visiting fellows under external auspices.						
750069* (2561)	Geology of uranium resources of Canada 3	Bell, RT	EGM	EG .	RMRA .	BC Yk Mack <u>Alta</u> Sask Man Que	
	Obj: To carry out comprehensive rese Canada west of the Canadian Shie 1. provide or support geological 2. provide guidelines for discov 3. provide advice to government	<pre>ld in order to: ly based estimates of Ca ery of deposits; for uranium policy and r</pre>	anada's un elated m	ranium res atters.		entary basins in	
	NTS: 93 A,B,C,D; <u>22 M</u> ; <u>23 D</u> ; <u>32 P</u> ; <u>82</u>	G,J,K,M,N, <u>O</u> ; 83 B,C; 92	E,F,G,K	,L			
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 to organic cover in order to provide relative to land use planning ampertinent to the Quaternary hist	e areal knowledge of ge d various aspects of eng	ology and	terrain	as backgr	ound information	
	NTS: 57 A-D,F,G; 58 A-D; 67 E,H; 68 A	-E					
750072* (2551)	Quaternary geology, terrain inventory, northeastern Manitoba	Dredge, LA	TS	-	RP	Man	
	Obj: To map, describe and explain torganic cover in order to provide relative to land use planning a sensitivity rating and to determ	e areal knowledge of ge and engineering construc	ology and ction, to	terrain provide	as backgr	ound information	
	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 postglacia other sediments and to investig metals.						
	NTS: 55 M,N,L; 56 C,D; 65 P,I,O; 66 A						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
750076 (2551)	Quaternary geology of the Canadian Cordillera	Fulton, RJ	TS	-	RP	BC Yk Alta, Mack			
	Obj: To gather and synthesize informat chronology of the Canadian Cordi		y depos	its, strati	graphy, g	eomorphology and			
	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 stratigraphic relationships within the Mesozoic strata. 2. To determine environments of deposition of the strata. 3. To determine the geologic history of the Sverdrup Basin during the Mesozoic. 4. To assess the economic potential of the Mesozoic strata.								
	NTS: 29; 39; 49; 59; 69; 79; 87; 99; 1	120; 340; 560							
750088* (2524)	Investigations concerning the optical properties of coals and dispersed organic materials	Kalkreuth, WD	ISPG	CG	CT	BC Alta			
	Obj: To provide information on metamorphism and petrographic properties of coal and dispersed organic matter for the GSC geologists, the data to be used for establishing metamorphic regimes for correlation of coal seams and other rock bodies and for estimating paleotemperatures and burial depths. Largely a service project.								
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 techniques as an input to methods for regional resource evaluation of geological data and mineral deposit data								
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 60° and west of Long. 25°, in o deposits as an aid to prospecting	rder to determine the o	rigin,	setting an	d distrib				
	NTS: 31 ; 32 ; 41 ; 42 ; 43 ; 52 ; 53 ; 54 ;	62; 63; 64; 73; <u>74</u>							
750102 (2531)	Regional syntheses, southern Keewatin, Project I	Eade, KE	P	-	NC	Kee			
	Obj: To provide a single comprehensiv available for presentation broad who will be thoroughly familiar w NTS: 65 C	regional and tectonic s	ynthesi	s; and to h	nave a des	signated "expert"			
750108* (1512)	Marine surficial geology and sedimentation, British Columbia	Bornhold, BD	С	-	PMG	<u>BC</u>			
	Obj: In order to provide the sedime concerns and landmass description 1. map, describe and explain in and history of the Pacific columbia;	n: a systematic manner the	physiog	raphy, suri	ficial dep	posits, processes			
	determine the composition, di matter in the marine waters o			ns and flux	of suspe	ended particulate			
	NTS: <u>92 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 monitoring of joint federal-prov participate, as required in the for mineral evaluation projects with other agencies (eg. DINA).	vincial actions in miner co-ordination, implement	ral reso ation,	ource evalu and managem	ation and ent of su	development; to ch projects; same			
20									

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
				5454111		
760004 ⁻ (2552)	Mineralogy and geochemistry of the unconsolidated cover — central Arctic	Adshead, JD	TS	-	SMT	
Obj: 1. To use mineralogical and chemical criteria to define weathering in the active laye						
	deposits in Arctic regions.2. To relate information on w prospecting, ii) northern cor	eathering products and estruction, and iii) wast	proces te dispo	ses to pr sal.	oblems in	n i) geochemical
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 s order to provide base data neces the Quaternary history of the re	ssary for land managemen	dforms, t, for	vegetation engineering	and acti studies	ve processes, in and to determine
	NTS: 59 B,C,F; 69 C,D,E,F; 79 D,E; 68	3 G,H; 78 H				
760014 (2561)	Geology of uranium resources of Canada-4	Dunsmore, HE	EGM	EG	MDG	NS NB Nfld Que
	Obj: Comprehensive research on the ge 1. support or provide geologica 2. provide guidelines for their 3. provide advice to government	lly based estimates of Co discovery;	anada's	uranium re	sources;	
	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 geo Pleistocene unconformity on th geophysical data to put bedrock geophysical interpretation aga geological history of the uncons shelf areas.	e eastern Baffin Islan and surficial data in a m inst bedrock sample da	nd shelf regional ta. To	and adjo context a investig	nining are nd to chec ate the	eas. To obtain ck the validity of distribution and
	NTS: Pts 15; 16; 17; 25; 26; 27; 28;	38				
760023 (2531)	Precambrian geology of south- east Ellesmere, Devon and Cobourg Islands	Frisch, T	Р	-	NC	Frank
	Obj: To complete the reconnaissance	geological mapping of the	e northe	rn Churchi	11 Provinc	ce.
	NTS: Pts. 38 B; 39 B-H; 48 E-H; 49 A	,B,D,E,H ·				
760024 (2531)	Keskarrah Bay map-area, District of Mackenzie, NWT	Henderson, JB	Р	-	BS	Mack
Obj: To determine the extent and significance of Archean basement rocks in the area; to stratigraphic control of base metal mineralization to improve understanding of iron form their significance in the region; and to obtain a better understanding of the evolution of basin in the Slave Province.						
	NTS: 86 H/2,3,6,7					
760026 (2531)	Geology of Penrhyn Fold Belt, Melville Peninsula, NWT	Henderson, JR	Р	-	ŃС	Frank
	Obj: To determine the structural, me and migmatites, and the covering the structural development of po structural-stratigraphic and is	g Penrhyn Group metasedi Nyphase folds in an area	mentary of high	gneisses a grade met	and schist amorphic r	ts. To elucidate
	NTS: 46 O,P; 47 A					
760027*	Redbed sequences in Canada	Chandler, FW	P	-	PET	Ont Que
(2531)	Obj: To determine the origin and sed determine the influences of cli origin; and to determine the pro- redbed sequences.	mate, topography, weathe	ering, s	edimentati	on and dia	agenesis on their
	NTS: Pts 31; 41					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
760042* (2522)	Jurassic biostratigraphy and paleontology of selected areas of western and Arctic Canada	Poulton, TP	ISPG	Р	MaP	BC Alta Yk Frank Mack		
	Obj: To provide detailed biostratigraphic and lithostratigraphic data on Jurassic rocks of selected p of British Columbia, Alberta, Yukon Territory and Northwest Territories, by field work and stud submitted fossils. To describe taxonomically the most important faunal elements.							
	NTS: 82 G,J,0; 83 C,E; 92 H,0; 93 0; 59; 69; 79; 89 A; 340 D; 560	94 B; 103; <u>104 I,J</u> ; 105	D; 106 D	,M; 107 M;	115; 116	A,B,C,N,O,P; 49;		
760043 (2572)	Regional geochemistry Newfoundland & Labrador	Boyle, DR	RGG	RGC	RR	Nfld		
	Obj: 1. Illustrate the effectiveness for mineral exploration and 2. Develop a geochemical survey contexts.	mineral inventory studie	es.					
	NTS: 13 J,K,N							
760047 [~] (2572)	Regional geochemistry-Northern Canadian Shield	Maurice, Y	RGG	RGC	RR	Mack Kee Frank Sask		
	Obj: To determine the nature and factors affecting the distribution of trace elements within bedrock overburden and stream and lake waters and sediments, etc. in order to: 1. evaluate the effectiveness of the NGR program (project 750051) and improve the operation techniques and specifications; 2. provide methodology for interpreting and following up NGR reconnaissance results; 3. assess the mineral potential of various regions and rock units with emphasis on granitoid rock.							
	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 that reasonable gas/oil ratios is so that maturation isopleths quantitatively evaluate hydroca amounts of petroleum in various	may be determined; to ca can be plotted and u rbons dispersed in fine	lculate p sed to m	robable or map probab	maximum m le petrol	naturation levels eum regions; to		
	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 that reasonable gas/oil ratios so that maturation isopleths quantitatively evaluate hydroca amounts of petroleum in various	may be determined; to ca can be plotted and u rbons dispersed in fine	lculate p sed to r	robable or map probab	maximum m le petrol	naturation levels eum regions; to		
	NTS: 14; 3; 10; 11; 20							
760056 (2524)	Resource evaluation and geology of coal deposits of western Canada	Dawson, FM	ISPG	CG	RE	Alta		
	Obj: To conduct resource evaluation industry and provincial governm framework within which these officials and to scientists in deposits. To maintain an up-to-	ment data on western Can coals occur. To provide government and industry	ada's coa authorit y on the	l deposits ative advi resource p	. To stud ice to sen	ly the geological lior Departmental		
	NTS: 83 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 the Arctic.	distribution and plant c	ommunitie	es as they	relate to	selected areas of		

NTS: 54; 56; 57 E,H; 58 A,D; 68; 69; 78 F,G,; 79; 88 B,C,; 87 C,D,E,F; 47 F,G; 48 B,C

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
760059 ⁻ (2511)	Study of large landslides in the Cordillera	Eisbacher, GH	С	-	CMG	Mack Yk BC		
	Obj: To determine the setting and mechanisms of major slope failures in selected parts of the Cordillera to establish criteria for assessing potential landslide regions and specific localities.							
	NTS: 92 G; 93 D; 106 C,F; 95 L,M; 94	F,K; 105; 116						
760060 (2561)	Mineral and energy resource evaluation; Probabilistic Methods	Agterberg, FP	EGM	EG	MAG	-		
	Obj: Preparation of a book to bring which, in one way or another, a mineral resources.	together and provide a aim to predict the plac	perspectives and	ctive for modes of	those mat occurrenc	hematical methods e of undiscovered		
760061* (2531)	Regional synthesis of the Grenville Province in Ontario and western Quebec	Davidson, A	Р	-	SG	Ont Que		
	Obj: To effect a regional synthesis or and to interpret the synthesis i with project 750062, of the Gren	n terms of the geologic	al evolu	rovince in tion of th	Ontario e area, a	and western Quebec and in cooperation		
	NTS: Pts 31; 41; 32					•		
760062 (2521)	Geology of bedded phosphate deposits in Canada	Christie, RL	ISPG	RG	AI	-		
	Obj: To identify Canadian phosphate relationships: patterns and occ							
760063 (2523)	Hydrocarbon geochemistry of northern interior plains and Beaufort Sea	Snowdon, LR	ISPG	PG	GC	Yk Mack		
	Obj: To determine presence or absence that reasonable gas/oil ratios m so that maturation isopleths quantitatively evaluate hydrocar amounts of petroleum in various	ay be determined; to cal can be plotted and us bons dispersed in fine	culate posed to	probable or map probab	maximum ole petro	maturation levels leum regions; to		
	NTS: 106; 107; 117							
760064 (2561)	Geology of Mineral Resources in the Oceans	Gross, GA	EGM	EG	SP	-		
	Obj: 1. To provide a base of geo distribution and possible exte to Canada. 2. To provide a direct and inde	ent of ocean mineral reso ependent national compet	ources, a	and for eva r evaluati	aluating t ng these	resources and for		
	appraising implications of th and marketing of Canadian min		espect to) Canadian	mineral p	oolicy and the use		
760065 (2571)	Digital Compilation of Queenair Aeromagnetic Data	Butt, I	RGG	RG	GDP	-		
	Obj: 1. Production of total field and GSC Queenair airborne survey 2. Improved modes of operations develop; 3. Maintain an up-to-date bank purposes. 4. Processing and presentation of	operations; and presentations of of the data described a	the abo	ove data a	is new co	mputer facilities		
770001* (2511)	Study of the Cenozoic Evolution of the Western Cordillera	Souther, JG	С	-	CMG	BC Yk		
(2311)	Obj: 1. To compile and publish a revi 2. To obtain data from selected relationships. 3. To publish a series of topica the Cenozoic evolution of the	areas where additional of the areas where additional of the areas where additional of the areas where a difference and the areas where additional of the areas where a difference areas where are a difference areas where a difference areas where a difference areas where a difference areas where a difference are a difference area. The difference are a	data are ected fie	required o	or which	illustrate typical		
	NTS: Pts. of 82; 92; <u>93</u> ; 103; 94; 104	, 50; 100; 110 A-C; 10b	, 110; 1	.17, 114 0,	г			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
770004* (2543)	Reconnaissance field study of the Mesozoic sequences out- cropping on the Iberian Peninsula	Jansa, L	AGC	EPG	SGBM	-	
	Obj: To provide evidence that the sequences beneath the Grand B		the Iberia	an Peninsu	la are co	-eval with similar	
770006* (2512)	The Canadian Pacific Continental Margin	Yorath, CJ	С	-	PMG	<u>BC</u>	
	Obj: To describe the stratigraphy, both in the offshore and, as a of the region and to contribu	ppropriate, within the 1	Insular Belt	. To det	ermine th		
	NTS: <u>92 B,C,F,K</u>						
770012* (2531)	Geology of the Coronation Gulf area	Campbell, FHA	Р	-	BS	Mack Frank	
	Obj: To establish the geology of the stratigraphic-sedimentologic River Group, and to relate the correlate, if possible, the H Cove; to relate tectono-depondent the extent of copper Parry Bay and other sedimental	analysis of the Parry I ese rocks to the underly ornby Bay dolomite and sitional events in oth er mineralization in the	Bay and Kan ying Tinney sandstone w er post-Co	uyak Form Cove and ith the Pa ronation (ations, Ellice Ri arry Bay, Geosyncli	and the Coppermine iver Formations; to Ellice and Tinney ine sequences. To	
	NTS: <u>77 A,B</u> ,D,E; 76 G,J,K,M,N,O (p	arts of); 86 O,P					
770013*	Operation Borden	Jackson, GD	Р	-	NC	Frank	
(2531)	Obj: A study of the stratigraphy, sedimentology, and economic potential of the upper Proterozoic rocks (EQULULIK and ULUKSAN GROUPS) of northern Baffin and Bylot Islands, and of the relationships between these strata and the underlying basement gneisses. A basin analysis will supply data for comparison and possible correlation with strata of west Greenland and Arctic Canada.						
	NTS: Pts. of <u>37 A</u> ; <u>38 B,C</u> ; <u>48 A-D</u>						
770015 (2571)	High Resolution Aeromagnetics (Instrumentation Development)	Sawatzky, P	RGG	RG	EAO		
	Obj: To improve the performance of terms of sensitivity, precisi				diometer	survey system, in	
770016*	Operation Dease	Gabrielse, H	С	-	CMG	BC	
(2511)	Obj: 1. To complete and update the	1:250,000 geological map	oping of Cry	Lake and	Dease La	ke map-areas and N½	
	Spatzizi. 2. To publish reports of field 3. To complete and publish a Dease Lake map-area.						
	NTS: <u>104</u> H, <u>I, J</u>						
770017 (2511)	Stratigraphy, structure and metallogeny of the northern part o the Intermontane Belt (Whitehorse trough) in the Canadian Cordillera		J C	-	CMG	Yk	
	Obj: To provide data on, and ex structure, sedimentary facie: Yukon.	tend our understanding s and mineral deposits	of, the on the nor	relations thern Int	hips betweender	ween stratigraphy, e Belt of central	
	NTS: 105 C,E,L; 115 I						
770019 ⁻ (2531)	Hepburn Batholith, Hepburn Lake map-area, District of Mackenzie	Hoffman, PF	Р	-	BS	Mack	
	Obj: To provide an analysis of the plutonic and metamorphic chara understand the significance of deposits.	acter of the batholith,	in order to	reconstru	ct the te	ectonic history and	
	NTS: 86 J,0						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
770020	Kemano Project	Woodsworth, GJ	С	-	CMG	BC	
(2511)	Obj: To produce a report and geologica one or more 1:50,000 maps of the NTS: 93 E	al map of Whitesail Lake most critical areas.	(W½) ma	p-area, on	a scale of	f 1:250,000, with	
770024* (2561)	Geology of uranium resources of Canada-V	Gandhi, SS	EGM	EG	RMRA	BC <u>Mack</u> NS, Nfld	
	Obj: To carry out comprehensive resea 1. support or provide geological 2. provide guidelines for their 3. provide advice to government	ly based estimates of Cadiscovery;	ınada's	uranium res	order to: sources;		
	NTS: 75 E,F,K,L,N,0; 76; 85; 86; 21 H	; 13 J,K,L					
770025* (2572)	Regional Geochemistry — Yukon	Goodfellow, WD	RGG	RGC	RR	Yk BC Mack	
	Obj: 1. To determine through regional2. To assess through regional of fundamental step towards the area;	letailed studies the use	e of va	rious geocl	nemical sa	ample media as a	
	To provide a data base for contribution to the mineral p	otential inventory of th	ne natio	n.	1 Reconna	issance Map as a	
	NTS: $\underline{105}$ A,B,H, \underline{I} ,F,0; 106 E; 116 B,L,	M,N; 115 G,I,J; 117 A,B,	,C,D; 95	J,K,N			
770026 ⁻ (2531)	Geology of Red Indian Lake, west half, Newfoundland	Herd, RK	Р	-	SG	Nfld	
	Obj: 1. To revise the geology and eve (12 A, W½) by mapping at 1:50 2. To monitor, assess and then al Canada-Newfoundland Mineral D	,000 scale and by compil osorb results of geologic	lation w cal mapp	here needed ing of insu	d.		
	NTS: 12 A,B						
770027 (2531)	Proterozoic redbeds .of Richmond Gulf	Chandler, FW	P	-	PET	Que	
	Obj: 1. To determine the processes of 2. To correlate Richmond Gulf se						
	NTS: 34 B,C						
770028 ⁻ (2531)	Regional Synthesis — Baffin Island: Project I	Jackson, GD	Р	-	NC	Frank	
	Obj: Regional synthesis of all aspects of the Precambrian geology of Baffin, eastern Devon and southeastern Ellesmere Islands in the District of Franklin, N.W.T.						
	NTS: 56-59; 45-49; 34-38; 24-27; 14-1	6		•			
770030 (2551)	Géologie du Quaternaire, région de l'Outaouais supérieur Québec	Veillette, JJ	TS	-	RP	Que Ont	
	Obj: Cartographier, décrire et expliq	uer les <mark>dépôts meu</mark> bles f	ormés de	e terrain,	avec objec	tifs secondaires	
	de: 1. Fournir des données relatives gravier, aux résérves d'eaux 2. Determiner les propriétés phy	souterraines, à la prosp	ection	géochimique	et localis e.	ation de sable et	
	NTS: 31 M,L						
770031 (2551)	Surficial geology and terrain evaluation, southern Yukon	Klassen, RW	TS	-	RP	Yk BC	
	Obj: To map, describe and explain th geomorphic data and knowledge of background information for land-	the stratigraphy, age a	and hist	ory of sur			
	NTS: 94 M; 95 D; 104 P; 105 A-D; E,J,		J	F . 2			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
770032 (2552)	Geological characterization of Arctic lakes: sediment properties and sedimentary processes	Adshead, JD	TS	-	SMT	Kee	
	Obj: To characterize Arctic lakes by p sediments and watersheds, and to assist 1) potential construction exploration programs.	evaluate postglacial	sedimen	tation and	diagenet	ic processes to	
	NTS: 66 A,H; 65 A,P,I, <u>H</u> ; 55 E,F,M; 56	D,E,N,K					
770037 (2552)	Slope processes and cryogenic movements, Arctic Islands	Heginbottom, JA	TS	-	GPEG	Frank	
	Obj: To document the nature, extent ar permafrost environment, and to de ice distribution, soil thermal ar NTS: 58 F,G; 68 G,H; 79 B	termine the importance of	of surfi	cial materi	ial, geomo		
770041* (2524)	Compositional Characteristics of Coals from Hat Creek, British Columbia	Goodarzi, F	ISPG	CG	СТ	<u>BC</u>	
	Obj: 1. To determine the petrographic character of the coals of the Hat Creek deposit 2. To determine the suitability of vitrinite reflectance as a rank parameter in these low rank coal (lignite to sub-bituminous) and if suitable, to use this parameter as the basis of determinatio of the relative timing of coalification and deformation 3. To examine the nature, vertical and lateral variation of associated clastics in boreholes and t combine these data with those of the petrographic study and a literature survey to interpret the depositional and post depositional environment of the deposit.						
	NTS: <u>92 I,P</u>						
770044* (2521)	Lower Paleozoic basin-to-platform relationships in the Cordillera	Cecile, MP	ISPG	RG	M	Mack BC Yk Alta	
	Obj: To contribute to the subdivision, mapping and understanding of important Lower Paleozoic basinal sequences through: 1. Tracing of time-rock units from platformal to basinal sequences, 2. Correlation of events on the platform with responses in the basin, 3. Identification of mappable units in basinal sequences, on lithological paleontological, geochemical or other criteria, 4. Estimation of basinal water depths, 5. Elucidation of the composition and movement of basinal fluids, as deduced from diagenetic events.						
	NTS: <u>105 0</u> ; pts. 95; 105; 106						
770047* (2524)	Studies of coal deposits of western and northern Canada	Ricketts, BD	ISPG	CG	CG	Yk Mack <u>Frank</u>	
	Obj: To provide geologic data for the of western and northern Canada; to provide resource data for the	to prepare suitably illu National Coal Inventory	strated /·	geological	nd Tertiar I reports	y coal resources for publication;	
	NTS: 116 B,C,F,G; 106 E,F; 59 E,F,G,H;			68 H			
770048 (2522)	Brachiopods of the lower Upper Devonian Waterways Formation of northeastern Alberta	Norris, AW	ISPG	Р	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).						
	NTS: 74 D,E; 84 P						
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 degre with organic chemical data.	e of maturation by micr	oscopic	al methods	and corre	elate the results	
	NTC. 11 E. 27 U T						

NTS: 11 E; 21 H, I

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
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-pl resources; to determine the rec international and national price	overable portion of th	ese res	ources; to	evaluat	e the impact of
770054 (2562)	Sample preparation and mineral separating	Delabio, RN	EGM	MC	Min	-
	Obj: To provide sample preparation and	d mineral-separating ser	vices in	support o	of Branch	projects.
770055* (2561)	Metallogeny of the north- western part of the Canadian Shield	Roscoe, SM	EGM	EG	RMS	Mack Kee Man Sask
	Obj: To provide a metallogenic basis f of the Canadian Shield.	for the evaluation of the	e minera	l resource:	s of the r	northwestern part
	NTS: 46; 55; 56; 64; <u>65</u> ; <u>66</u> ; <u>74</u> ; <u>75</u> ; <u>7</u>	<u>76; 85; 86</u>				
770060 (2552)	Environmental assessment of coal resource development, Canadian Cordill	Jackson, LE Iera	TS	-	GPEG	Alta BC
	Obj: Assessment of the geologic and hydrony and the investigation of geotechr coal mining operations in the Car	nical problems attendant	oit coal with th	mining and e reclamat	emplacem ion of la	ent of coal spoil unds disturbed by
	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	<u>Yk</u> Mack <u>Que</u> Man Frank
	Obj: 1. support or provide geologicall 2. provide guidelines for their of 3. provide advice to government to	discovery;			of these o	commodities;
	NTS: <u>32 D</u> ,F,J; 63 K-N; <u>105 I,O,K</u> ; 48;	68			•	
770067 (2526)	Canada Oil and Gas Pool data base	Nairn, KN	ISPG	PRAS	***	-
	Obj: To incorporate and maintain a d exploitation of oil and gas pools data base suited to reserves co project development) studies and evaluation of undiscovered hydroc	in western, frontier an alculation, resources e for application of and re	d offsho stimatio esearch	ore regions on, input on statist	of Canad to econor ical metho	da. To provide a mic (costing and odologies for the
770068 (2523)	Petroleum Evaluation of Mainland Territories	McMillan, NJ	ISPG	PG	PR	Yk Frank
	Obj: To provide a reliable and adequat of the project's hydrocarbon pote the area.					
	NTS: 85; 86; 95; 96; 97 A,B,C,D,F; 105	5 P; 106 A,B; 106 H-P; 1	07 A-E;	116 F-P; 1	.17 A-D	
770071* (2561)	Geology of copper and molybdenum resources of Canada	Sinclair, WD	EGM	EG	MDG	NS NB Que Ont Yk BC
	Obj: The project is one of comprehens	sive research on the ge	ology of	copper a	nd·molybd	enum deposits in
	order to: 1. support or provide geological 2. provide guidelines for their of their or of their of the	liscovery;			of these o	commodities;
	NTS: 104 0; 105 A,B,C,D,F,M,O; 20 P; 2	21 G,J; 41 I; 42 C		•		
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 Surve Committee with regard to the open	ey and present the views			sts to th	ne KPCRP Steering

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
770077* (2522)	Paleozoic conodonts of eastern Canada	Nowlan, GS	ISPG	Р	OP	Que Ont Man Kee NB NS Nfld			
	Obj: To describe and assess biochronological significance of early Paleozoic conodonts in order to refine methods for dating the rocks in which they are found.								
	NTS: 12 A,E,L; 11 E,F,K; 22 A,B,	C,G,H; 21 A,G,H,I,J,O,P; 41	G,H; <u>31</u>	C,F, <u>G</u>					
780001	Coal Resource Data Management	Mottershead, K	ISPG	CG	RE	-			
(2524)	coal deposits in Canada and	gations of the methodologies . To establish and maintain apply, adapt or develop comp pilation of coal resource es	coal res outer pro	ource data grams for 1	computer	files of various			
780002* (2552)	Glacial eroson of the Canadian Shield	Kaszycki, CA	TS	-	SMT	Kee <u>Ont</u> Que			
	 Obj: 1. To define and summarize ways of quantifying rates, depths and volumes of glacial erosion; 2. Define parameters that are most influential in controlling glacial erosion on the Shield; 3. To measure glacial erosion in selected test areas; 4. To evaluate recently developed differences of opinion on efficacy of glacial erosion on the Shield. 								
	NTS: 55 E,L,K; 41 I; 21 E,L; 31	<u>D</u> ,E							
780003 (2523)	Petroleum Resource Evaluation of Western Canada	Osadetz, KG	ISPG	PG	PR	Alta BC Sask Man			
	Obj: To provide the geological-geochemical framework for the evaluation 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 I,P; 94 A,B,G-K,N,O,P								
780004 ⁻ (2523)	Evaluation of Unconventional Gas Resources in the Deep Basin of Western Canada	Fuglem, MO	ISPG	PG	PR	Alta BC			
	Obj: To determine the quantity o Basin of western Canada.	f gas in low porosity, low p	permeabil	ity sandst	one rese	rvoirs in the Deep			
	NTS: 83 B,C,E,F,K-N; 93 I,P; 94	A,B,G,H							
780006* (2524)	Mineral Matter and Trace Element Content of Canadian Coals		ISPG	CG	СТ	Alta <u>BC</u>			
	 To relate mineral matter To provide a data bank of 	sins and seams within basing for the interpretation of i and trace element content in n environmental and utilizat	the depos to other	itional re compositio	gimes wi nal para	thin coal basins. meters.			
700000	NTS: 82 G,O,N; 83 A				NO	W			
780008 (2531)	Macquoid Lake (₩½), Thirty Mile and Tebesjuak Lake map-area	S	P	000 mannin	NC	Kee			
	metamorphism of Aphebian and	mprove regional tectonic sy d Archean gneisses and their	ntheses.	To inve	stigate	the structure and			
	NTS: 65 P (W½); 65 O (E½); 55 M	(W ³ 2)							
780009 (2531)	Healey Lake map-area, District of Mackenzie	Henderson, JB	Р	-	BS .	Mack			
	Obj: To determine the general st Front in order to better und To evaluate the economic po NTS: 76 B	ructural metamorphic and age lerstand the nature of the bo tential of the area and to I	oundary b	etween Slav	re and Ch	urchill provinces.			
780011 (2531)	A survey of Metamorphism in the Canadian Shield	Froese, E	Р	-	PET	Man			
,,	Obj: To write a concise select geologists working in the p		uction to	o metamorph	hic petr	ology directed to			
:28	NTS: 63 J,K,N								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
780012 (2531)	Stratigraphy and geochemistry of the volcanic rocks of the Circum-Ungava Belt	Baragar, WRA	Р	-	SP	Kee Que		
	Obj: To determine the geochemical volcanic and related rocks of t		work out	the strat	tigraphic	relationships of		
	NTS: 44 I,P; 35 D							
780015* (2572)	Disequilibrium in the uranium series	Dyck, W	RGG	RGC	ER	Sask <u>Ont</u> Man		
	Obj: To determine the usefulness o mineralization. NTS: 31 F,G 64 L; 74 I	f disequilibrium in the	e U serio	es in pred	icting th	e existence of U		
780016* (2552)	Drift prospecting methods	DiLabio, RNW	TS	-	SMT	Ont Que Nfld Man		
(====,	Obj: 1. To model glacial dispersal f 2. To develop drift prospecting		y belts.			 .		
	NTS: 14 D; 24 A; 23 J; 32 C,D; 42 C;	64 C,F; 42 A						
780017* (2551)	Correlation of Quaternary geology; Great Lakes — St. Lawrence Valley region	Gadd, NR	TS	-	RP	Ont Que		
	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.							
	NTS: 31 B,C,F,G,H,L; 21 E,L,M							
780018 (2552)	Surficial geology and Quaternary stratigraphy of north Baffin-Bylot	Klassen, RA Islands	TS	-	SMT	Frank		
	Obj: To provide information on the Quaternary sediments in the environmental and development applicable to drift prospecting	northern part of Baffi groups that may require	n Island	and of	Bylot Isl	and, for use by		
	NTS: 38 B,C 48 A,D							
780019 (2542)	Ocean Dumping Consultation and Study	Forbes, DL	AGC	EMG	SG	Atlantic Offshore		
	Obj: 1. To provide advice to governm	ent departments concern	ing the f	easibility	of dispos	al of materials in		
	the marine environment.2. To test various techniques dumping.	and procedures for de	etecting	and monit	oring the	impact of ocean		
	NTS: 21, 22							
780021 (2542)	Landsat Calibration for Suspended Sediment Concen- tration in Marine Coastal Environments	Amos, CL	AGC	EMG	SG	-		
	Obj: 1. To initiate cooperative reserview to extending a calib Originally applied to the Most To extend the Minas Basin call. To relate the available Season	ration of Landsat radi inas Basin. alibration.	iance vs.					
780022*	3	Amos, CL	AGC	EMG	. SG	NS NB		
(2542)	Obj: 1. To determine the mass input	t, transfer and removal	of sedir	ments to CI	hignecto	Bay, inclusive of		

To determine the mass input, transfer and removal of sequiments to difference bay, inclusive of Shepody Bay and Cumberland Basin.
 To develop a numerical model to assess the affects of a Fundy Tidal Power Development on the distribution and accretion of sediments.
 To formulate a methodology of assessing the implications of marine constructions on sediments in macrotidal regions.

NTS: <u>21</u>; 11

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
780024* (2572)	Analytical control and standardization	Lynch, JJ	RGG	RGC	SDS	Ont Que		
	 Obj: 1. To obtain sample preparation and a variety of analytical services from commercial sources under contract for the subdivision and the NGR. To provide analytical methodology, the use of which will permit the aquisition of accurate, precise and regionally compatible analytical data for the subdivision and NGR surveys under Federal and/or Provincial jurisdiction. To provide various types of international geochemical reference samples and to provide certified values for a large number of elements for these samples. 							
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	Р	-	SG	Nfld		
	Obj: 1. To produce maps (suitable for publications at 1:100,000) and comprehensive reports on the geology and economic mineral potential of the Archean rocks in these areas. 2. To monitor, compile and synthesize results of the geological mapping of Labrador to be carried out under the Canada — Newfoundland Mineral Development Subsidiary Agreement. NTS: 13 N,K,O							
780026	Quaternary paleo-sealevel	Pelletier, BR	TS	_	SP	-		
(2550)	map of Canada				•			
700007.	Obj: To produce a synthesis of seale			period.	DMO	90		
780027* (2512)	Coastal Geology and processes of British Columbia	McLaren, P	С	-	PMG	BC		
	Obj: 1. To analyze the coast of Brit and Quaternary/tectonic evolution 2. To utilize the data base from an agement and coastal recress. 3. To research the meaning of establish process models for objectives. NTS: 103 G	ution. or oil spill contingnec ation. grain size distributions	y plann both i	ing and cl	eanup, c	oastal industrial		
780028	Detailed Geological study	Thompson, RI	С	_	CMG	BC Alta		
(2511)	of selected areas within the Foothills and Rocky Mountain Belts of the Monkman Pass map area — with emphasis on the structure	Monipson, KI	C	_	CHG	DO ATER		
	Obj: To map at 1:50,000 scale: map s $83 \text{ E}/13W_2$ as a data base for the							
	NTS: 93 H,I; 83 E	e preparación de seracea	1 41 11100	or precede ron	J 401 033	one area.		
780029 (2522)	Mesozoic and Cenozoic Foraminifera of the Arctic Western mainland of Canada	McNeil, DH	ISPG	Р	MiP	Yk Mack		
	Obj: To establish the biostratigraphs in the Arctic western mainland Sea area.							
	NTS: 95; 96; 97; 105; 106; 107; 115;	116; 117						
780032 (2561)	Lead isotopic studies on genesis of ore deposits	Thorpe, RI	EGM	EG	MDG	-		
	Obj: 1. To do lead isotopic studies genesis of these deposits. 2. To derive a lead isotope mode							

2. To derive a lead isotope model that will be useful in refining genetic models for many types of ore

deposits.

3. To coordinate the obtaining of lead isotope analyses for the members of the Mineral Deposits Geology Section and the assignment of priorities for such analyses.

4. To aid members of the section in interpretaion of analyses that have been carried out for other

projects.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
780033 (2551)	Quaternary paleoecology, Great Lakes	Anderson, TW	TS	-	PG	Ont Que
(2001)	Obj: To describe, analyze and explain Lakes in order to: 1. determine Quaternary stratigr 2. identify processes operative 3. to provide background geologi NTS: 21 E; 31 B,C-G, H-L; 41 H-K	aphy, history and paleo in the lakes during the	ecology; Quaterna	ry and the	factors (controlling them;
780035* (2552)	Remote sensing applied to Quaternary geology and mineral tracing	Belanger, JR	TS	-	SMT	Yk Kee <u>Que</u> Frank Mack Ont
	Obj: To evaluate the potential use of mapping, Quaternary geology and remotely sensed data to Quatern Canada.	mineral tracing. To	apply ap	propriate	processin	g techniques for
	NTS: 66 M; 67 A-C; 87 A-F; 88 A-B; <u>21</u>	<u>E</u> ; 31 G				
780039* (2521)	Jurassic and Cretaceous Minnes Group, Alberta and British Columbia	Stott, DF	ISPG	RG	М	Alta BC
	Obj: To describe the stratigraphic s provide data on correlation of th of oil and gas, and their suitab	ese strata, their latera	al variat	ion, their	ossil flo potentia	ra and fauna; to lities as sources
	NTS: 83 E,L; 93 I,O,P; 94 B,G,J					
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 structures. 2. To determine the transition for the subsidence his subsurface structures.	rom the continental to	oceanic	crust acro	ss the mai	
780045 (2552)	Debris flow hazard assessment methodology, alpine and northern upland areas	Jackson, LE	TS	-	GPEG	BC Alta
	Obj: To identify and determine the development of debris flows in assessing the hazards to transpo	the Rocky Mountains (4	9°N-54°N), and to	develop a	
	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 f 2. Develop data base for airborn 3. To standardize and coordinate	e, ground, laboratory a	nd boreh	ole gamma	ray spect	rometric 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, Ridge in the vicinity of the 2. To contribute to Earth Physics 3. To adapt technology and to ga 4. To establish working contacts	EMR LOREX site (near No Branch's LOREX to defir in experience in workin	rth Pole ne contin g on fro). ental (?) zen seas.	origin of	Lomonosov Ridge.
780049 (2541)	Arctic Ocean: Seismic Refraction and Related Geophysical Measurements	Jackson, HR	AGC	RR	OBM	-
. ,	Obj: To collect seismic refraction, interpret them at both a regiona 1. a tectonic history of the Arc 2. a model for development of slas those in Baffin Bay and th 3. a crustal cross-section of the	l and global scale to p tic; ow spreading ridges and e Labrador Sea;	rovide: relation	iship to ot	her sprea	ding centres such
						2.1

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
790002* (2572)	Geochemical data processing	Lund, NG	RGG	RGC	SDS	BC, Man, Sask Nfld Ont
, ,	Obj: 1. To compile, store and docum subdivision.	ment, in digital for	m, all g	eochemical	data (generated for the
	 To improve data management sup 3. To produce open file material data. 	oport for the subdivis for Federal NGR and	ion. provincia	ıl open fil	e relea:	ses of geochemical
•	4. Provide special data processi	ng requirements for th	e Subdivi	sion.		
790003* (2572)	Regional Geochemistry — Southern Cordillera	Ballantyne, SB	RGG	RGC	RR	BC Yk
	Obj: 1. To develop and test geochemica a variety of geological and st 2. To assess the effectiveness of programs and in appraising the NTS: 104 N,O,P,I; 94 F,K,L; 105 B-F,I	urficial environments f geochemical reconnai e resource potential o	in the so ssance su	uthern Cord	lillera.	
790004	Geochemical Sampling and	Garrett, RG	RGG	RGC	ER	-
(2572)	Resource Evaluation Studies Obj: To develop and document methods of Particular attention will be paid the variabilities associated with	to assessing the reli	ability of	f such stud	ies thro	ough measurement of
790005* (2551)	Quaternary geology, Mayo-McQuesten	Hughes, OL	TS	-	RP	<u>Yk</u>
(2331)	Obj: To map, describe and explain the geomorphic data and knowledge of background information for land	f stratigraphy, age a	nd histor	y of surf	icial de	eposits to provide
	NTS: 105 M; 115 P; 116 B,C					
790006 (2512)	Marine Delta Sedimentation, British Columbia	Luternauer, JL	C	-	PMG	BC
	Obj: To provide geological/sedimentol general land and waterfront plan NTS: 92 B,C,G; 103 G,H,I,J	ogical data base for ning and environmental	delta sys manageme	tems in coant.	astal Br	itish Columbia for
790007	Geology of Nahanni map-area,	Gordey, SP	С	-	CMG	Yk Mack
(2511)	Yukon and Northwest Territories Obj: To update geological mapping in	Nahanni map-area with	emphasis	on the dis	tributio	on of stratigraphic
	units of the economically import NTS: 105 I	ant Road River Formati	on and Ea	ırn Group.		
790008 (2511)	Stratigraphy, sedimentation, structure and tectonic setting of the Windermere	Eisbacher, GH	С	-	CMG	Yk, Mack BC Alta
	Obj: To establish the stratigraphic s these rocks in the evolution of sedimentological and structural	the Cordillera. To r framework of these roo	elate mir			
	NTS: 115; 105; 95; 94 K; 93 I,0; 83;		_			
790009 (2531)	Kamilukuak Lake Map-area, District of Keewatin, N.W.T.	Tella, S	Р	-	NC	Kee
	Obj: To map the bedrock geology of the be placed on the Dubawnt Group rocks.					
	NTS: 65 K,L; 66 H					
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 chemical means. 2. To determine the relationship					
		,				

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
790016 (2531)	Geology of the Helikian Sediments and Adjacent Gneisses, Fury Hecla Strait Area	Chandler, FW /&	Р	-	PET	Frank
	Obj: 1. To determine the internal str	atigraphy, sedimentolog	y, struc	ture, age,	geologica	al history of the
	sediments. 2. To map the gneisses underly coincident with strong radion		the nort	h, concen	trating o	n those gneisses
	NTS: 47 C,D,E,F					
790018* (2542)	Ice Scouring of Continental Shelves	Lewis, CFM	AGC	EMG	SG	Atlantic Offshore
	Obj: To investigate the geomorpholog bathymetry, geology, oceanograph of ice impacts on the seabed in	y and drift ice with a v	riew to i	nterpretin	g the dyna	
790019* (2542)	Environmental Geology of Deep Ocean	Buckley, DE	AGC	EMG	G	Atlantic Offshore
	Obj: 1. To investigate the capacity environmental quality under c exploration and exploitation.	onditions of stress impo	osed by w	aste dispo	sal practi	ices and resource
	 To participate in the Seabed feasibility studies for the c To participate in studies of 	lisposal of high level n	uclear wa	aste in th	e seabed.	s or progress in
790020 ⁻ (2524)	An investigation of the semi-inert constituents of Western Canadian coals	Kalkreuth, WD	ISPG	CG	CT	BC Alta
	CURRENTS TINFORMATION PARTIES THE PROPERTY OF	rticipation of semi-ine establish a reliable mi	rt macera croscopi	als, of We c method	stern Cana for predic	adian coals, in a cting the coking
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 and to collect fossil flora and coal seams throughout the region environments in which the fluvregional geological model that withis and other regions.	fauna; to provide data o n; to attempt to determ ial-deltaic sediments w	n the or nine crit ere depo	igin, dist eria usefi sited, and	ribution a ul in dete 1 to even	and continuity of ermining the sub- tually provide a
	NTS: 83 L; 93 I,J,0; 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, s plutonic rocks in the Piling Gro structural evolution of Archean mineral resource potential of th	up and their relationshi "gneiss domes" in the	ip to the	rocks of	the Mary F	River Group. The
	NTS: A,B,C,D					
790025* (2531)	Petrology, mineralogy, geochemistry and mineral potential of a Helikian non-orogenic granitic suite in centra Labrador and adjacent Quebec.	Emslie, RF	P	-	PET	Nfld <u>Que</u>
	Obj: To improve understanding of the and Mo in non-orogenic granitic		s that co	ontrol cond	centration	s of U, Sn, Be, W
	NTS: <u>32; 22; 12</u>					
790027 ⁻ (2551)	Quaternary stratigraphy Yarmouth region, Nova Scotia	Grant, DR	TS	-	RP	NS
	Obj: To document the Quaternary stra Yarmouth.	atigraphy of the souther	ast coast	of Nova	Scotia in	the vicinity of
	NTS: 11 E,F; 21 H					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
790029 (2531)	Gneissic basement to the Fury and Hecla Formation and the Autridge Formation	Ciesielski, A	Р	-	SG	Frank		
	Obj: To map the basement gneisses adj Baffin Island at a scale suitable basement cover relationships and	for publication at 1:10	0 000 or	1:250 000.	Emphasis	s to be placed on		
	NTS: 47 D,E,F							
790030*	Geology of Nelson Map-area E/2	Reesor, JE	C	-	CMG	BC		
(2511)·	Obj: 1. To update the geology of Ne scattered studies done since 2. To provide a 1:250,000 synth potential.	the original work in the	e late 1	930's.				
	NTS: 82 F, E ¹ ₂							
790031* (2521)	Geology of the Beaufort Mackenzie Basin	Dixon, J.	ISPG	RG	М	Mack Frank Yk		
	 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. Undertake detailed stratigraphic, sedimentological and petrographic analysis of selected zones within the Cretaceous and Tertiary in order to understand reservoir character and distribution. To do detailed correlations of Lower Cretaceous-Upper Jurassic rocks in the subsurface, set up a stratigraphic framework and do sedimentological interpretations. 							
	NTS: 97 C; 107 B; 106 M; 117 A; 116 G	<u>1, 1</u>						
790033* (2572)	Geochemistry of Mineral Occurrences and their Host Rocks in the Northern Cordillera	Goodfellow, WD	RGG	RGC	RR	Yk Mack		
	Obj: Through geochemical studies, to 1. the origin of selected minera 2. criteria which can be used in 3. geochemical methodology for th assisting in stratigraphic corre	al occurrences; the exploration for new a ne identification and dif						
	NTS: <u>105 0,I</u>							
790034* (2574)	Shallow Seismic	Gagne, RM	RGG .	RGP	TG	Ont Que BC Alta		
	Obj: To map the velocity structure of mapping and site analyses.	of surficial deposits by	engine	ering seism	nic method	is for geological		
	NTS: 31 F,H,K,G; 82 E; 84 A; 93 G							
790036* (2544)	Sediment Dynamics Monitor (Ralph)	Heffler, DE	AGC	PS	-	-		
	Obj: To design, build and test an in ranging from a few metres to 200				sediments	in water depths		
790037 (2544)	Ocean Bottom Seismometers at A.G.C.	Heffler, DE	AGC	PS	-	-		
	Obj: To carry on the development of the CURRENTENINFORMATION. Prince invertible to maritain existing obs. s.	lease, better tape recor	ders st	udv of sei	smic coun1	ling and response		
790038* (2521)	Middle and Upper Devonian Rocks in east-Central B.C. and west-central Alberta	Geldsetzer, HHJ	ISPG	RG	М	BC <u>Alta</u>		
	Obj: To establish and apply concept environment and paleogeography,					nts in terms of		
	NTS: <u>83 C,E</u> ,L; 93 H,I,O							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
790040 (2543)	Taxonomy, biostratigraphy, paleoecology and paleobiogeography of Mesozoic-Cenozoic agglutinated foraminifera.	Gradstein, F	AGC	LBG	-	-
	Obj: 1. To clarify the taxonomy of La 2. To establish an agglutinated Upper Mesozoic-Cenozoic strat 3. To understand the distribution foraminiferal assemblages in	foraminiferal biostrat a. tion in space and th	igraphy rough t	of more t	han local redominant	tly agglutinated
790041*	Lardeau map-area, B.C.	Wheeler, JO	С	_	CMG	BC
(2511)	Obj: To complete terminal report ar structure sections for publicati		structu	ral and m	ineral de	eposits maps and
	NTS: 82 K (W ¹ ₂)					
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 tectonic history of that part of				, their e	evolution and the
	NTS: 49 A,B,C				-	
790044	Nahanni IMPP — Coordinator	Reesor, JE	С	-	CMG	Yk
Obj: To provide coordination for participants from 5 divisions in a multidisciplinary study of Nahanni marea (105 I) and environs involving bedrock, surficial deposits, geochemistry and mineral deposits ensure that various disciplinary studies are undertaken such that maximum interaction takes place the field and in follow-up laboratory and office investigations. To judge ultimately the efficacy such studies in GSC 1:250,000 systematic mapping.						
	NTS: 105 I					
800001 (2552)	Quaternary geology and terrain inventory, Nahanni-Sheldon Lake- Finlayson Lake	Jackson, LE	TS	-	GPEG	Yk Mack
	Obj: To map, describe and explain the and Quaternary history with specexploration.					
	NTS: 105 I,J(S½),G					
800003 (2521)	Subsurface Geology of Great Bear River map-area	Pugh, DC	ISPG	RG	M	Mack
	Obj: To provide a thorough understand map-area, emphasizing the interre To evaluate the economic mineral	elationships of sediment	geolog ation st	ical histon ratigraphy	y of the , tectonio	Great Bear River cs and economics.
	NTS: 96 C					
800005 (2531)	Metamorphism and structure in northeast Superior Province	Ciesielski, A	Р	-	SG	Que
	Obj: 1. To understand the geological Superior Province, and in part 2. To contribute, through field NTS 33.	ticular, the relationship	p betwee	n greensto	ne and gra	anulite terrains.
	NTS: 33					
800006* (2531)	Geology of Beechey-Duggan Lakes area	Frith, RA	Р	-	BS	Mack
	Obj: 1. Map for 1:250,000 published s 2. Understand the nature of the 3. Produce final maps and a repo	Thelon Front.				
	NTS: Pts. 76 F,G,H; 86 B					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
800007* (2531)	Metamorphism in the Kisseynew Subprovince	Froese, E	Р	-	PET	Man Sask		
,	Obj: To study the metamorphic zonat granulite facies in the centre, volcanic and sedimentary subpro	and to determine its						
	NTS: Pts. 76 F,G,H; 86 B							
800008 (2531)	Geology of the Baker Lake map-area	Schau, M	Р	-	NC	Kee		
	Obj: To refine and upgrade the 16-mi Archean metavolcanics and Apheb The economic potential will be	ian(?) metasediments, a	n emphasis nd relation	on the str nship to gn	ucture an neissic an	nd stratigraphy of nd granitic rocks.		
	NTS: 56 D							
800009 (2531)	Geology of Fort Smith, District of Mackenzie	Bostock, HH	Р	-	BS	Mack		
	Obj: To complete mapping of Precamb Little Buffalo River (85 A).	rian rocks at 1:250,00	O scale in	Fort Smit	:h (75 D)	and east part of		
	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's magnetic field over the Pacific margin of Canada to extend our knowledge of the geology and economic potential of the area.							
	NTS: <u>92</u> B,C, <u>D</u> ,E,F,G,L,K,M; 93 D; <u>102</u>	<u>A,H</u> ,I,P; 103 A,B,C,F,	G,H,I,J,K					
800011	Rock Magnetism	Currie, RG	С	-	PMG	Yk BC		
Obj: To investigate the relationships between rock magnetism, rock type and associated material to enhance the usefulness of magnetic surveys as a tool in geological mapping evaluation.								
	NTS: 92 B,C,E,F,G,L,K,M; 93 D; 102 I	,P; 103 A,B,C,F,G,H,I,	J,K; 105 C	,D,E,L; 11	5 A,F,G,H	H,I,J,K,N,O,P		
800012 (2531)	Geology of Woodburn Lake map area, District of Keewatin	Fraser, JA	Р	-	NC	Kee		
	Obj: To upgrade the 16-mile geolog interpretations of the stratigr determine their relationship to	aphy and structure of	the Proter	rozoic(?)	supracrus	stal rocks, and to		
	NTS: 56 E							
800013 (2532)	Vertical Movements of the Precambrian Shield	Buchan, KL	Р	-	PMag	Ont Que		
	Obj: To determine vertical movement magnetism. The method is quanti of the Shield since the Archean	itative and would allow	inces in t estimating	he Precamb g the net a	orian Shi amount of	eld from remanent uplift or tilting		
	NTS: 23; 24; 34 C							
800014 (2531)	Metamorphism of volcanic rocks, Crowduck Bay, Manitoba	Gordon, TM	Р	-	PET	Man		
	Obj: Conduct a detailed field and pe in order to provide correlation belts and elucidate the chemica	criteria for mapping an	nphibolites	and gneis	ses equi	valent to volcanic		
	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		
	Obj: 1. To provide a map of shorelin 2. To examine two well develo sediment availability in or sediment characteristics an changing environmental condi	ped barrier beaches w der to determine seaso d to document the hist	ith differ nal change	ent aspec s in beacl	t, geolo h-nearsho	gical setting and ore morphology and		
	NTS: 11 F,G,K					,		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
800018* (2574)	High Resolution Seismic (Equipment Development)	Pullan, SE	RGG	RGP	TG	Ont Que Man Alta BC Sask Yk NS
	Obj: 1. To develop new techniques for 2. To improve the reflection se at various sites in Canada.				nd test th	ese improvements
	NTS: 40 I,P; 30 M; 84 A; 93 G; 73 B;	83 G; 31 G; 11 E; 82	<u>L</u>			
800019 ⁻ (2551)	Surficial geology, Cobden area (Quebec part)	Fulton, RJ	TS	-	RP	Que
	Obj: To map, describe and explain the Cobden area (31 G 10) in order turban and industrial development of the region.	to provide geology and	terrain in	formation	pertinent	to agriculture,
	NTS: 31 G 10 (Quebec part)					
800020* (2542)	The Recent Paleoclimatic and Paleoecologic Records in Fjord Sedimo	Schafer, CT ents	AGC	EMG	Р	Que BC
	Obj: To relate documented climatic e geological record in unbioturb throughout Canada with a view to 10-year scale.	ated fjord sediments	recovered	from dist	inctive o	limatic regimes
	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 concerning recognition of areas to make resultant information go	favourable for their	onate-hoste occurrence	d lead-zir and mechan	nc deposit	s, particularly their formation;
800022 * (2511)	Stratigraphy and structure of Dawson, Larsen Creek and Nash Creek map areas	Thompson, RI	С	-	CMG	<u>Yk</u>
	Obj: To update the 1:250,000 geologic stratigraphic and structural and the northern Cordillera.					
	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
	Obj: To contribute to the mineral re-	source data base and t	he evaluati	on of regi	onal reso	urces.
800024 (2551)	Quaternary geology-terrain inventory, northwestern Manitoba	Dredge, LA	TS	-	RP	Man
	Obj: Map, describe and explain the processes to provide knowledge with particular reference to en	of stratigraphy, age a	and Quaterna	ary histor	y and area	ions and active al geologic data
	NTS: 64 J,K,N,O					
800027 (2552)	Sensitivity of surficial sediments to effects of acid precipitation	Kettles, IM	TS	-	SMT	Ont Que NB
	Obj: 1. To establish baseline data on with respect to possible load bedrock.	n natural variations o ding by acid precipita	f buffering tion in an	capacitie area of pr	es of surf redominant	icial sediments, ly non-carbonate
	 To establish magnitude of nat that might be mobilized by 10 To determine the extent that of surficial sediments from the 	pading by acid precipi glacial dispersal has	tation. modified t	he physica	1 and che	mical properties
	NTC 01 D 0 F F 0 K 1 01 3 N 0					-

NTS: 31 B,C,E,F,G,K,L; 21 J,N,O

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
800028* (2511)	Eastern Margin of the Coast Plutonic Complex	Woodsworth, GJ	С	-	CMG	<u>BC</u>		
(====)	Obj: 1. To examine the stratigraphy, s correlate metamorphic rocks with 2. To produce reports and geology Nass River (103 0) map-areas. NTS: 92 J,N; 93 D; 103 I,P,J	ith unmetamorphosed roc	ks to the	e east.				
800029*	Geology of the Ashcroft and	Monger, JWH	С	-	CMG	<u>BC</u>		
(2511)	Hope map-areas Obj: To produce Geological maps of Asl NTS: 92 I,H	ncroft (92 I) and Hope	(92 H) m	ap-areas.				
800030* (2572)	Isotopic Geochemistry, Precambrian Mineralized Basins	Cameron, EM	RGG	RGC	-	Mack <u>Ont</u> Que		
	Obj: 1. Provide data on the distribution basins. 2. Utilize these data to interpress. 3. Develop methods of geochemical findings of (a) and (b). NTS: 42 C; 52 A; 41 I,J,K; 86	et the mineralizing pro	cesses.					
800031 (2521)	Geological reconnaissance, southeastern margin of Franklinian Geosyncline	Christie, RL	ISPG	RG	AI	Frank		
	Obj: To improve understanding of the sedimentation and paleogeography of the Franklinian Geosyncline, particularly late Precambrian to lower Paleozoic stratigraphy; to provide better understanding of late Precambrian to Silurian events along the platform and platform-miogeosyncline junction along the edge of the Franklinian Geosyncline.							
800033 (250)	Geology and Economic Minerals of Canada 6th Edition	Wheeler, JO	DGO			-		
	Obj: To coordinate the preparation of charts and thematic maps for pub			onomic Mine	erals of Ca	anada and related		
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 and gravity anomalies) of various include extension, intrusion, er allow predictions of the above elimination of models which do no model of the rift processes.	processes perhaps resposion and phase changes observations which ca	onsible in the in be co	for initial lower crust mpared to	rifting Models real dat	These processes of the processes a. This allows		
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 struct geological and geophysical data t application to a variety of mar margin evolution.	o infer the detailed ge	ology act	ross the oc	ean/contir	nent boundary. By		
800036* (2542)	Stability and Transport of Sediments on Continental Shelves	Amos, CL	AGC	EMG	SG	Atlantic Offshore		
38								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
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	NS Nfld Ont Sask Man Mack		
	 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. 2. To compare these two systems with other inductive sounding/mapping systems. 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. 							
	NTS: 31 D,G; 41 A; 40 P; 107 C; 64 C;	74 I,N,O; <u>30 M</u> ; 21 A						
810004 (2551)	Quaternary geology — terrain inventory, Frances Lake	Dyke, AS	TS	-	RP	Yk		
	Obj: To map, describe and explain the landforms and Quaternary deposits in order to understand the Quaternary evolution of the area and to provide information relevant to land-use planning and mineral information.							
	NTS: 105 H							
810005* (2552)	Relationship of flood frequency and heavy metal uptake in growth rings of trees	Egginton, PA	TS	-	GPEG	Ont Mack		
	Obj: To develop and evaluate a proxy NTS: 31 F,K,L; 42 H,P	method of determining fl	ood free	quency of r	ivers.			
810006* (2551)	Quaternary Geology, upper Fraser River Basin	Clague, JJ	TS	-	RP	BC		
	Obj: To describe, map and establish t 1. reconstruct the upper Fraser of placer deposits, 2. provide information pertinent	River drainage developme	nt as ar	n aid to ex	plaining	the distribution		
	and 3. to determine the Quaternary h	istory of the region.						
	NTS: <u>93 A,B,</u> G,H							
810007 (2551)	Quaternary geology-terrain inventory, western Victoria Island	Vincent, JS	TS	-	RP	Frank		
	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: 1. aid in the implementation of the Territorial Land Use Regulations; 2. be pertinent to engineering construction, petroleum exploration and related activities; 3. provide data relative to terrain sensitivity rating; and 4. elucidate the Quaternary history of the region.							
	NTS: 87 A,C,D,E,F,G,H; 88 A,B,C,D; Pt	s of 77 B,C,F,G; 78 B						
810008* (2573)	Nuclear and Analytical Instrumentation	Bristow, Q	RGG	RGP	IRD	Ont		
	Obj: Adaptation of advanced technolocontract) for improved acquisit measurement of other new parame results and/or licencing of products.	ion of conventional geo ters which are not at p	physical resent	l and geoch generally m	nemical da measured.	ata and for the Publication of		
	NTS: <u>31 C,F,K</u> ; <u>40 P</u>							

Project		Project					
Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.	
810009 (2573)	Remote Sensing Applications Obj: 1. To maintain up-to-date a Lands to advise geologists adequate solution of specific problems 2. To develop and to demonstrate integrating imagery (satellite the purpose of geological map	ely on the potentials new methods or to adapt and airborne) with geo	and limi existing chemical,	methods in geophysic	f Landsat relation	imagery in the with the task of	
	 To evaluate geological approximated approximate of the second seco	olications of Synthet	tic Aper	ture Rada	r and t ject.	o provide the	
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	M.	BC Alta	
	Obj: To map at 1:50,000 scale: 1. Northern area-map sheets 93 O Lake,						
	 Southern area-map sheets 83 Thompson parts of 93 I (SE cor structural interpretations acr southern area. 	ner) and 93 H (N.E. cor	ner). As	a data ba	ise for the	e preparation of	
	NTS: 93 H(NE), I(SE), 0/11-14; 83 E(N	W), L(SW) ·					
810011* (2521)	Carboniferous stratigraphy and sedimentology of northeastern British Columbia and northwestern Alb	Richards, BC erta	ISPG	RG	M	BC <u>Alta</u>	
	 Obj: 1. Revision of the stratigraphic nomenclature of subsurface and surface Carboniferous stratigraphic units. 2. To solve subsurface and surface stratigraphic problems. 3. To determine the characteristics, distributions, and depositional environments of lithofacies in the surface and outcrop belt. 4. To summarize region's Carboniferous depositional history. 5. Evaluation of hydrocarbon potential. 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). NTS: 83 E,L,M,N; 84 C,D,E; 93 I,J,O,P; 94 A,B,G,H,I,J,K,N,O,P; 82 O,J 						
810012 ⁻ (2521)	Structural and stratigraphic studies of Northeast British Columbia	Taylor, GC	ISPG	PRAS	- 1	BC	
, ,	Obj: To provide a synthesis of the response of the stratigraphic re NTS: 93 I,O,P; 94 F,G,J,N,O	geology of the norther	n Rocky	Mountains	in terms	of the tectonic	
810013 (2521)	Syntheses of Mesozoic and Cenozoic rocks of Eastern Cordillera and Plains	Stott, DF	ISPG	RG	M	Man Sask Mack Alta BC YK	
	Obj: To provide regional syntheses, particularly of Mesozoic clastic			s concerni	ng sedime	ntary sequences,	
810014 (2524)	Resource evaluation and geology of Canada's coal deposits	Hughes, JD	ISPG	CG	RE	BC Alta Sask	
	Obj: To conduct resource evaluation p office and/or field studies to b acquire industry and provincial framework	e undertaken to meet t government data on Can	he require ada's coa	ements of 1 deposits	the invent . To stud	ory program. To ly the geological	
	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

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
810015 (2524)	Evaluation of Liquefaction Potential of low rank coals and peats	Kalkreuth, W	ISPG	CG	СТ	-		
	Obj: Determine the composition of ra 1. the efficiency of the liqued 2. behaviour of the different of the different of the different of the different of the relationship between liqued the occurrence and behaviour of the utilization of residues	Faction process in conveniero-components of coal quefaction yields and the of mineral components	erting the I during 1 ne petrogr during li	coal; iquefaction aphic compo	n; osition o			
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 Devonian stratigraphic succession in southern and central Ellesmere Island, Kent Island and northeastern Devon Island; description and interpretation of map units in conjunction with regional mapping program.							
	NTS: 59 A; 49 A,B,C,D,E,G,F,H							
810017 (2521)	Middle and Upper Devonian rocks in the subsurface of west-central Alber	Meijer-Drees, NC	ISPG	RG	M	Alta		
Obj: To establish the depositional environment and paleogeography of the original sediments and the subsequent diagenesis for the purpose of correlating the depositional framework (sedimentologic history) with that of the Middle and Upper Devonian sediments in the Rocky Mountains to the we investigated under Project 790038.								
	NTS: 83 B,C,E-G,J-N							
810018 (2524)	Regional Coal Rank Variations in the Kootenay Formation and their relationship to the structura history of the Southern Canadian Roo		ISPG	CG	СТ	BC Alta		
	Obj: 1. To delineate vertical and la Formation of the southern Ro 2. To utilise this and stratign and the relative contribution	ocky Mountains and Footh raphic/structural data t	nills. o interpre	et the rela	tive timi	ing of deformation		
	NTS: 82 G,J							
810019* (2524)	Regional coalification studies in the Minnes, Bullhead and Fort St. John Groups, N.E. British Colum	Kalkreuth, W bia	ISPG	CG	СТ	BC Alta		
	Obj: 1. To determine the regional cand Minnes Groups in the foo 2. To determine the petrograph coal quality and utilization 3. Coal rank data and petrograph	thills belt of northeast ic composition of coal s n and on depositional e	ern Britis seams in t nvironment	h Columbia he region s of seam	and west to provid formation	central Alberta. de further data on		
	NTS: <u>83 E; 93 I,P</u>							
810020 (2531)	Thrust-Fold Belt of Wopmay Orogen — Internal Zone	St-Onge, MR	Р	-	BS	Mack		
	Obj: To extend the study of metam affecting an early Proterozoic		structure	resulting	from co	llisional orogeny		
	NTS: 86 E,F,G	conomicatous mangini						
810021	Externides of Wopmay Orogen	Hoffman, PF	Р	-	BS	Mack		
(2531)	Obj: To extend the stratigraphic an and its destruction by collisi		n early Pr	oterozoic	passive c	continental margin		
	NTS: 86 H,I,J,M,O,P; 76 M							
810022 (2552)	Permafrost and ground ice map of Canada	Heginbottom, JA	TS	-	GPEG	Yk, Mack		
	Obj: To compile a revised permafros NTS: 106; 107; 116	t and ground ice map of	Canada at	a scale o	f 1:5M.			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
810023 (2551)	Quaternary geologic compilation (EG-1 revision)	Fulton, RJ	TS	-	RP	-	
	Obj: 1. Prepare a volume describing 2. Prepare a map depicting the	the Quaternary geology of surficial materials of Ca	F Canada anada at	a scale of	f 1:5 000	000.	
810024* (2561)	Metallogeny of the Baker Lake-Thelon region, N.W.T.	Miller, AR	EGM	EG	RMS	-	
	Obj: To determine the relationship of activity, metamorphism and sed Helikian rocks in the Baker Lak	imentary processes in the					
810025 (2561)	Organization and preparation of mineral resources component of Econo Geology Series Volume 1 — 6th Edition	omic	EGM	EG	MDG	-	
	Obj: To produce descriptive-interpretative accounts of the mineral deposits of Canada, integrated as appropriate with the regional geological accounts, and to produce summaries of deposit types, metallogenic syntheses and inter-regional comparisons of the character and distribution of mineral resources.						
810028* (2511)	Conodont biostratigraphy and biogeography in the Canadian Cordil		С	-	CMG	BC Yk	
	Obj: To collect and document conodont faunas and associated biotas to provide and refine a biostratigraphic framework for the interpretation of Cordilleran geological evolution.						
810029 (2511)	Micropaleontological analysis of referred samples	Orchard, MJ	С	-	CMG	BC Yk	
	Obj: To provide microfossil-based relative ages to Cordilleran geologists for their use in the solution of geological problems.						
810031* (2541)	Evaluation of KSS-30 Sea Gravimeter	Loncarevic, BD	AGC	RR	OBM	Atlantic Offshore	
	Obj: To acquire, field test, and imp	olement operational use of	f the ne	w șea grav	imeter (M	odel Kss-30).	
810032 (2543)	D.S.D.P. Dinoflagellates	Williams, GL .	AGC	EPG	-	Atlantic Offshore	
	Obj: Establish a dinoflagellate zo CURRENT INFORMATION Plant on microfessi conations reNGI destrable taxa relative to the history of the sediments beneath the Atlantic	levant. Correlate and and Circum-Atlantic ons and paleo-environmental/a Atlantic and related are	date th hore str ltitude eas. As	is scheme atotypes. significan sess hydrod	relative Determi Ice of the	to the standard ne stratigraphic- ese distributions	
810033 (2543)	Biostratigraphy of the Atlantic Shelf and Relevant areas	Davies, EH	AGC	EPG	SGBM	Atlantic Offshore	
	Obj: 1. To assist in the petroleum chronostratigraphic framewor 2. To establish, develop and offshore eastern Canada and	[.] k. utilize the palynologio	al zona	tions for	the Meso	ozoic-Cenozoic of	
810034 (2543)	Maturation Studies	Bell, JS	AGC	EPG	SGBM	Atlantic Offshore	
	Obj: To develop predictive models for hence highlight potential oil a				coast of	fshore wells, and	
810035 (2543)	Taxonomy, Phylogeny and Ecology of Palynomorphs	Davies, EH	AGC	EPG	SGBM	-	
	Obj: Taxonomy: To erect new palynome east coast offshore Canadian we of palynomorphs in order to oriented zonation (phylozones) palynomorph taxa in order to h Canadian basins and other relevant	ells and relevant areas. increase biostratigraphi for eastern Canada. elp determine the paleoe	Phylogen c resolu Ecology:	y: To desc ition and To plot	ribe evol erect a the ecol	utionary lineages phylogenetrically ogical ranges of	

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
810036* (2542)	Morphology, sedimentology, and dynamics of Newfoundland coast	Forbes, DL	AGC	EMG	SG	Nfld	
	Obj: 1. To describe and interpret Newfoundland coast, with at contingency planning. 2. To investigate the sedimenta types and, in particular, of information is available.	tention to problems o ry facies and physical	f coastal processes	resource character	manageme ristic of	nt and oil-spill selected coastal	
	NTS: 1 K,L,M,N; 2 C,D,E,F,M; 11 0,P;	12 A,B,G,H,I,M,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.						
	NTS: 3; 13; 14						
810038* (2522)	Palynology of Carboniferous, Permian and Triassic Rocks of northern and western Canada	Utting, J	ISPG	Р	MiP -	<u>Frank</u>	
	 Obj: 1. To establish a palynological zonation for Carboniferous, Permian and Triassic rocks of northern and western Canada and to apply this zonation to local, regional and worldwide biostratigraphic correlations. 2. Taxonomic description of palynological taxa to provide bench marks substantiating the zonation. 3. Completion of related studies on Carboniferous rocks in eastern Canada previously initiated by J. Utting before joining the Survey. 						
	NTS: 560 A,D; 340 A,B,C,D; 59 E,H; 4	9 E,F,G,H; <u>78 G; 79 B;</u>	88 H; 89 /	Ī			
810039* (2524)	Sedimentological studies of coal-bearing Upper Cretaceous and Paleocene formations, central Alberta Foothills	Jerzykiewicz, T	ISPG	CG	CG	Alta	
	Obj: Establish the stratigraphic frame Foothills of Alberta as a basis studies leading to an evaluation	of further qualitative	e, quantita	ative, min			
	NTS: <u>83 B,C</u>						
810040 (2541)	Surficial Geology and Crustal Structure of the Alpha Ridge, Arctic Ocean	Jackson, HR	AGC	RR	OBM	Arctic Offshore	
	Obj: 1. To describe the morphology, structure and history of the surficial sediments of the Alpha Ridge in the vicinity of EMR CESAR site (84°N 120°W); 2. To describe the crustal structure of the ridge using OBSs in a refraction experiment done jointly with EPB; 3. To adapt and develop new technology in working in frozen seas; 4. To provide a base line survey for the use of the "RISP" drill for obtaining continuous core and bedrock samples of the Alpha Ridge.						
810041* (2542)	The physical behaviour of suspended particulate matter (spm) in natural aqueous environments	Syvitski, JPM	AGC	EMG	SG	Atlantic Offshore Arctic Offshore Pacific	

Obj: To discover the physical forms and dynamic behaviour of spm so that the vertical flux of spm can be understood for a variety of environments.

NTS: 21; 11

Offshore Pacific Offshore

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
810042*	Sedimentology of Fjords	Syvitski, JPM	AGC	EMG	SG	Que			
(2542)	Obj: To complete a comprehensive study dynamics, sedimentological hist (completion of previous NSERC pro	ory, and animal sedi	ment re	hy, physic lationship	cal oceand s of wes	ography, sediment st coast fjords			
	NTS: <u>22</u>								
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</u> ; <u>41 J</u> ; <u>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 to Quaternary evolution of the area a exploration.	he Quaternary deposits and to provide informati	and lar on relev	ndforms in ant to lan	order to d-use plan	o understand the nning and mineral			
	NTS: 66 0,P; 57 B,C; 67 A,D,H; <u>68 A,D</u>								
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 suitable for regional studies.	information generated	or comp	iled by A	GC in a s	tandardized form			
810047* (2542)	Quaternary geologic processes on Continental slopes	Piper, DJW	AGC	EMG	-	Atlantic Offshore			
	Obj: To determine why different areas morphology and surficial geolog processes and paleo-environmenta surficial sediment distribution shelf to the deep sea.	yy; to relate this va al configurations; and	riability to thus	y to cont develop	emporary prediction	and Pleistocene ns on subsurface			
810048 (250)	Canada-Nova Scotia Cooperative Mineral Program 1981-84	Poole, WH	DGO	-	-	NS			
	Obj. To ensure that the Cooperative M properly designed and that the GS					es and Energy is			
820001* (2524)	Completion of outstanding Foothills mapping projects	Norris, DK	ISPG	CG	CG	<u>Alta</u>			
	Obj: To prepare for final publication geological maps and reports on Blairmore (82G/9), Carbondale River (82G/8), Livingstone River (82J/1) and Beehive Mountain (82J/2) areas in the Foothills of southwestern Alberta.								
	NTS: <u>82 G,J</u>								
820002 (2524)	Structural Geometry and Tectonic History of the Aklavik Range	(Bardoux, M)	ISPG	CG	CG	Mack			
	Obcuprente INFORMATION fau NOT AVAILABLE structure Mackenzie Delta.	ructure and tectonic se us coal-bearing sequenc ctural geometry of pot	etting of e and the ential o	Aklavik ne importa pil and g	Range; as: nce of ma as reserv	sess the economic ajor, strike-slip oirs beneath the			
	NTS: 106 M; 107 B								
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.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
820004 (2531)	Geology of Aberdeen Lake and parts of adjoining map areas, District of Keewatin	LeCheminant, AN	Р	-	NC	Kee	
	Obj: To interpret the geology of the regional geological synthesis. complexes and the stratigraphic	Emphasis is to be place	d on stu	udy of Prot	terozoic	volcanic-plutonic	
	NTS: 66 A,B,C,F,G; Pts 65 O,N						
820005* (2532)	Paleomagnetism of Nipissing diabase and Abitibi dykes.	Buchan, KL	Р	-	PMag	Ont, Que	
	Obj: To study the magnetic characteri they intrude in order to establi						
	NTS: <u>31; 32; 41; 42</u>						
820006* (2531)	Regional Geological Synthesis, Western Superior Province	Percival, JA	P	-	SG	Ont Man	
	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: 1. improve regional correlation; 2. improve understanding of Superior Province tectonics, and 3. to produce geological maps for publication at 1:1,000,000 NTS: 52; 41						
820007 (2531)	Deep Rose Lake and parts of adjoining map areas, District of Keew	Tella, S vatin	Р	-	NC	Kee	
	Obj: To map the bedrock geology at a scale of 1:250,000 in order to determine the tectonic and metamorphic history of the basement complex and that of the supracrustal rocks, and to assess the economic potential of the region. Emphases will be placed on the study of cataclastic to mylonitic zones in the region to determine their distribution and tectonic significance. NTS: 66 B,F,G,H						
820008*	Geology of Montresor River	Frisch, T	Р	_	NC	Kee	
(2531)	and Lower Hayes River map areas, District of Keewatin						
	Obj: The mapping of the supracrusta 1:250,000.	al Chantrey Belt, its e	extensio	ns and it	s environ	s at a scale of	
	NTS: <u>66 I</u> ; Pts 66 P; <u>56</u> L, <u>M,N</u>						
820009* (2531)	Hottah Terrane Obj: To identify and characterize roc Magmatic Zone, and interpret the						
	NTS: <u>86 D,E</u>						
820010* (2531)	Precambrian Shield Volume "Decade of North American Geology"	Hoffman, PF	Р	-	BS	Alta Sask <u>Man Ont</u> Que Nfld	
	Obj: To produce an up-to-date volume geology of the Canadian Precamb America — GSA centennial project	rian Shield, (as part o	es), and f a 20	d geologica volume wor	al and tec k on the	tonic maps on the	
	NTS: Pts 24; 52; 62; 63; 13; 31; 32;						
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 direct for purposes of geoscience studi				AECL staf	ff seconded to GSC	
820013 (250)	Meguma Gold in the Ecum Secum-Liscomb area, Nova Scotia	Henderson, JR	DGO	-	-	NS	
	Obj: To determine the origin and dis Meguma Group in eastern Nova Sco		alizatio	on in defor	rmed metai	turbidites of the	
	NTS: Pts 11 D,E						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
820014* (2511)	Stratigraphy and tectonics of the western margin of the southern Omineca Belt	Struik, LC	С	-	CMG	<u>BC</u>		
	Obj: To determine the stratigraphy, a Formation and therefrom determine the southern Omineca Belt. To eastern rocks where they are migneous(?) rocks at the contact.	e the stratigraphic and determine the relations ainly Snowshoe Formatio	structum hip of	ral history the contact	of the v t of Ques	western margin of nel Terrane with		
	NTS: 93 A,H,G							
820015 (2511)	Geology of Sheldon Lake (105 J) and Tay River (105 K) map area, east central Yukon	Gordey, SP	С	-	-	<u>YK</u>		
	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							
820016 (2511)	Geology of Skagway (104 M) map-area, British Columbia	Dodds, CJ	С	-	CMG	BC		
	Obj: To update geological mapping in Skagway (formerly Bennett) map-area. NTS: 104 M							
820017 (2512)	The Geology of the Strait of Georgia	Hamilton, TS	С	-	PMG	BC		
	Obj: To examine and describe the geological sedimentology. To determine to shaping the constituent basins tectonic sequence of events in the Canadian Continental margin.	he relative importance particularly with respe	of glac ect to t	iomarine a he late Ce	nd tector	nic processes in To determine the		
	NTS: 92 B,F,G,K			•				
820018 (2512)	Volcanic Rocks of the Insular Belt and Adjacent Deep Ocean	Hamilton, TS	С	-	PMG	ВС		
	Obj: To examine the volcanic sequence stratigraphy, physical forms and formations, petrography, mineral significance and economic potentectonic and geodynamic evolutions.	nd depositional/extrusivogy, geochemistry, petro tial of each of the var	e modes	, age rel Igenesis.	ationship To inter	es with adjacent pret the geologic		
	NTS: 103 B,C,F,G,I,K; 92 B,C,E,F,K,L;	102 I						
820021* (2573)	Borehole Geophysics Applications to Coal	Mwenifumbo, CJ	RGG	RGP	BG	Ont NS Alta Nfld Man		
	Obj: To improve borehole methods for		ation of	coal.				
	NTS: 12 A; <u>11 D</u> ,F,K; 63 K; <u>82</u> I, <u>0</u> ; <u>31</u>	<u> </u>						
820023 (2573)	Operation CESAR	Overton, A	RGG	RGP	TG	Arctic Offshore		
	Obj: To participate in a multidiscip nature and origin of the Alpha R	linary Canadian Arctic idge, a major subsea mod	geoscien untain ra	ce expendi ange in the	tion to i Polar Ba	nvestigation the asin.		
820024 (2571)	Magnetic Anomaly Maps of Canada	Dods, SD	RGG	RG	GDP	-		
	Obj: 1. To produce a series of composissued by the Geological Surv		os in co	lour at a s	scale of 1	l:1,000,000 to be		

issued by the Geological Survey of Canada;
2. To produce a 1:5,000,000 composite magnetic anomaly map of Canada (1255A)
3. To provide a bank of digital aeromagnetic data.

Project Number	Title	Project Leader	Div. S	Subdiv.	Sec.	Prov.		
820027* (2573)	Development of Regional Geophysical Data Processing and Interpretation Methods	Teskey, DJ	RGG	RG	GDP	<u>BC</u>		
	Obj: To adapt digital data enhance techniques as required, in rel airborne geophysical data.	ement, display and int ation with the general	terpretatio utilizatio	n techni on and i	ques and nterpretat	to develop new tion of regional		
820031 (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 leading to supply related to enhanced retechnology; and to prepare estimates.	covery methods; to ass	ist in dev	velopment	of impr	ovements in the		
820033 (2521)	Stratigraphy and Sedimentology of the Mannville Group, Southern Albert	Banerjee, I a	ISPG	RG	М	Alta, Man		
Obj: 1. Regional correlation of the Lower Cretaceous strata in southern Alberta. 2. Construction of a facies model for the Mannville Group from stratigraphic and sedimentologic data.								
	Environmental reconstruction of the period.	of the Mannville Group a	and delinea	tion of t	he regiona	al paleogeography		
	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 <u>Mack</u> Frank Alta		
	Obj: To establish the biostratigraph of Upper Mesozoic and Cenozoic p on Mackenzie Delta-Beaufort Sea	oalynomorphs of western a area.						
	NTS: 82 0, J; 97 C; 107 B, D; 117 A; 10	06 M; 116 F,H,I,P						
820037 (2523)	Oil Shale Resources of Canada	Snowdon, LR	ISPG	PG	CG	-		
(2020)	Obj: To investigate the geology and geochemistry of kerogen-rich sedimentary rocks ("oil shales") across Canada. Studies of the geological structure, stratigraphy, sedimentology, mineralogy, catagenesis and organic geochemical properties of Canadian oil shales will establish a data base from which resource potential will be determined.							
820038* (2552)	Measurements of dynamic elastic moduli of frozen and unfrozen surficial materials	Kurfurst, PJ	TS	-	GPEG	Mack		
	Obj: To relate dynamic elastic constants of frozen and unfrozen surficial (unconsolidated) materials measured in situ to static measured ones (either in situ in the laboratory) to relate these to standard in situ borehole geotechnical parameters (i.e. shear vane, standard penetrometer) and lithological descriptions of soils tested. Should meaningful relationships be established, to correlate these with the NRC or other permafrost classification in order to allow its easier practical applications in the fields of engineering and permafrost geology. NTS: 107 C							
820039* (2552)	Drift prospecting, east-central	Klassen, RA	TS	-	SMT	Nf 1d		
` ,	Obj: To develop methods for determin with glacial deposits.	ing the source of uranif	erous bould	ders cont	ained with	in or associated		
	NTS: 13 E,F,K,L; 14 D							
820041 (2543)	Information Data Base, Offshore East Coast Wells	Williams, GL	AGC	EPG	-	Atlantic Offshore		
	Obj: To develop computer data base of east coast wells. To use the facilitate research by allowing data bases.	data base for handlir	ng queries	by manag	gement on	resources. To		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
820042 ⁻ (2544)	Coastal Information System development	Fricker, A	AGC	PS	-	-
	Obj: To overcome the problems of orgation inspection and manipulation varying detail as information system for efficient output and figures, tables.	n of this information. To permits, of all sections	o establi of the	ish a proce coast. To	edure for develop	description, in a computer-based
820043 (2542)	Coastal Environments and Processes in the Canadian Arctic Archipelago	Taylor, RB	AGC	EMG	SG	Frank
	Obj: To map and analyze the coastal e magnitude of processes affect information on the physical c stability which will serve as b coastal zone and in case of an	ing coastline stability haracteristics of shore ackground information fo	across types a or the ev	the Arct nd the pro aluation o	ic Island ocesses a	s. To provide ffecting coastal
820044 (2542)	Quantitative Quaternary Paleoecology, Eastern Canada	Mudie, PJ	AGC	EMG	Р	Atlantic Offshore
	Obj: 1. To quantify the relationship of the eastern Canadian marg 2. To apply these quantitative Quaternary glacial-interglac 3. To correlate the E. Canadian atmosphere interaction during	ins. data to analysis of past ial cycles. n paleoecological record	climatio	and ocear	nographic	conditions, e.g.
820046* (2542)	Sediment Dynamics and Depositional Processes in the Coastal Zone	Forbes, DL	AGC	EMG	SG	NS, NB PEI
	Obj: To further our understanding of the coastal zone; of the sed development of coastal sediment	limentology of coastal				
820047 (2541)	The tectonics of the intersection of a mid-ocean ridge and a transform fault	Loncarevic, BD	AGC	RR	OBM	Atlantic Offshore
	ObCURRENT OF WALLABLE Study of mice measurements and a study of mice	intersection of the Ver ly using reflection and roearthquake activities.	ma Fractu refractio	re Zone and on profilin	d the mid- ng, gravit	Atlantic ridge on ty and heat flow
820048 (2524)	Temperature history of Lower Paleozoic rocks, determined by optical study of dispersed organic m	Goodarzi, F materials	ISPG	CG	СТ	-
	Obj: 1. To determine optical and mor	phological character of	dispersed	organic m	aterials	(D.O.M.) in lower
	2. To examine vertical variation 3. To classify the D.O.M. of Lo. 4. to study the influence of c) genera of specific D.O.M.	ower Paleozoic rocks. a) time of burial (age)), b) rat	e of subs	idance (r	
820049 ⁻ (2524)	Structural Fabric of Coal Mea <u>sure Rocks</u>	ex-Ollerenshaw	ISPG	CG	CG	-
(=== : /	ObCURRENT LINFORMATION exc NOT aAVAILABLE opic deformed and undeformed strata	scale adjacent to these	on a me	soscopic s ions. To	cale wher project w	e they are being ill embrace both
820050* (2542)	Near-Surface Geology of the Arctic Island Channels	Piper, DJW	AGC	EMG	-	Arctic Offshore
	Obj: 1. To map surficial sediment textural parameters in suf elsewhere.	ficiently many and var	ied area	s to have	a predi	ctive capability
	2. To establish a litho-, bio- CURRENTION FORMATIO 3. TO Offine the nuiscipal cont 4. TO Offine the nuiscipal cont	the surficial sediment	t sequence	e.	t accumula	ating basins, and

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
820051* (2561)	Metallogeny of marine environments, including active spreading ridges	Franklin, JM	EGM	EG	RMS	Pacific Offshore		
	 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. 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. 							
	NTS: 91; 100; 101; 102	·						
820052* (2561)	Metallogenic processes in sedimentary-diagenetic environments	Dunsmore, HE	EGM	EG	MDG	<u>Sask</u>		
	Obj: To understand how various commodities of economic interest are, or were, concentrated by sedimentary- diagenetic processes, particularly those operating in evaporitic environments. An understanding of these processes is necessary for development of metallogenic models applicable to mineral exploration and resources evaluation.							
	NTS: <u>72; 73</u>	-						
830001 (2542)	Permafrost Processes in Arctic Beaches	Taylor, RB	AGC	EMG	SG	-		
	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: 1. the effect of ice-bonded sediment on wave run-up, swash-backwash velocities and wave washover; and 2. the formation, extent and duration of various types of ice features in Arctic beaches including anchor ice.							
830002 (2541)	Seismicity Studies of the Eastern Canadian Margin	Reid, I	AGC	RR	OBM	Atlantic Offshore, Arctic Offshore		
	Obj: To investigate the detailed mis spatial and temporal distribut lithospheric stress distribution as well as the causative mecha understanding the seismicity on possible seismic hazard to offsh	tion, source mechanisms and strain rates, and anism, be it deglaciat the continental margin i	may tell ion or s of cou	s will a' us someth something	llow bett ing about else. I	ter estimates of margin evolution Knowledge of and		
830003 (2544)	Development and Implementation of Cable Handling and Maintenance Procedures	Manchester, KS	AGC	PS		-		
	Obj: 1. To investigate methods of cab 2. To develop a cable handling a 3. To acquire equipment necessar 4. To increase cable life by a f	and maintenance program by to effeciently carry	at AGC a out prog	nd impleme ram.	nt it.	long run.		
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 paramet	ers for drilling and ex	ploitati	on of fron	tier basi	n resources.		
830005 (2523)	Geological Modelling of Petroleum Reservoirs for Enhanced Oil Recovery (OERD Project)	McMillan, NJ	ISPG	PG	PR	Alta		
	Obj: To develop quantitative fine sca	ale sedimentary models a	s a basi	s of enhan	ced oil r	ecovery projects.		
830006* (2532)	Isotopic age determinations and radiogenic trace element studies of rocks and minerals	van Breemen, O	Р	-	G	BC		
	Obj: To precisely establish the chro tracer studies to the character mapping and to determine the ori at the forefront of geochronolog	ization of rock units gin of rocks. To aid in	in order	to furthe	r extend	the criteria for		
	NTS: <u>82 F,K,L</u>							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
830007*	Beaufort Sea Coast	Forbes, DL	AGC	EMG	SG	Yk Mack			
(2542)	Obj: 1. To determine and map the physi 2. To assess processes, sedimer environment. 3. To assess the response of coa aggregate extraction, and to p contingency planning in the Be	ntary styles and rate astal systems in the Be provide a sound scienti	es of c eaufort S ific four	hange in Sea to indu	this dist strial ac	tivities such as			
	NTS: 97 C,F; 107 B,C,D,E; 117 A,C,D	duror c oca coastar zon	.						
830008* (2531)	Displacement History of Major Shear Zones in Western Churchill Province	Hanmer, S	P	-	SG	Mack Sask			
	Obj: To document displacement histor Province: MacDonald-La Loche and going regional mapping in Mackenz interpretation of existing maps. NTS: 85 H; 75 E,L; 74 P	Grease RBlack L. zon	es. To	provide sti	ructural f	ramework for on-			
	N13. 05 11, 73 E,E, 74 F								
830009* (2531)	Structural studies in the Grenville Province of Ontario and western Quebec	Hanmer, S	Р	-	SG	Ont Que			
	Obj: To examine the strain characteristics of major structural boundaries within the Grenville Province of Ontario and western Quebec, in order to determine kinematic sense and significance of possible differential movements. To relate such kinematic data to current regional synthesis.								
	NTS: <u>31; 41</u>			-					
830010* (2531)	Tinney Hills (76 J)-Overby Lake (76 I W½) map areas	Thompson, PH	Р	-	BS	Mack			
	Obj: While mapping the geology of the petrogenesis and structure of gne of the Thelon Front tectonic zone.	issic and migmatitic ro	cks and	on the age,	location	and significance			
	NTS: 76 G,I,J; 66 L								
830011 (2523)	Thermal History and Basin Evolution — Canadian Frontier Regions		ISPG	PRAS	-	-			
	Obj: To predict the thermal regime as unexplored or partially explored		ning the	hydrocarb	on generat	ting potential in			
830013* (2542)	Pleistocene-Holocene Sedimentation in Hamilton Inlet and Southeastern Labrador Shelf	Vilks, G	AGC	EMG	Р	Nf ld			
	Obj: 1. Describe a Late Glacial-Pos transect through Lake Melville 2. Establish postglacial relative	e to the inner shelf of	SE Labr	`ador.	anographic	model along a			
	NTS: <u>21 B</u>								
830014* (2532)	Metamorphic Processes in the Kisseynew Sedimentary Gneiss Belt	Gordon, TM	Р	-	PET	Man Sask			
	modern tectonic models.	Obj: To determine the pressure-temperature history of selected areas in the belt for comparison with modern tectonic models.							
	NTS: <u>63 J,K,N,O</u> ; 64 B, <u>C,D</u>								
830015 (2552)	Engineering geology of Canada	Evans, SG	TS .	-	GPEG	-			
(2002)	Obj: To provide engineering geological Government of Canada. To inte various geological regions of C assemble selected case histories engineering geology of Canada.	rpret the engineering anada with respect to	geologi slope fa	cal signif ilures or	icance and other nate	d performance of ural hazards. To			

roject Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.
330016* (2552)	Landslide hazard in the Canadian Cordillera	Evans, SG	TS	-	GPEG	BC Alta Yk Mack
	Obj: 1. To document the occurrence of 2. To develop landslide mecha environments.					
	NTS: <u>82</u> ; <u>83</u> ; <u>92</u> ; 93; 94; 95; 96; 102	; 103; 104; 105; 106; 11	14; 115;	116; 117		
330017 * (2551)	Surficial geology, north- central District of Mackenzie	St-Onge, DA	TS	-	RP	Mack
	Obj: To map, describe and explain to organic cover, and undertake geomorovide areal knowledge of geold 1. elucidate the Quaternary hist 2. aid in the implementation of 3. be pertinent to engineering 4. provide data relative to term	morphic process studies ogy and terrain that wil tory of the region; the Territorial Land Us construction, hydrocarbo	of the NE 11: se Regula on transpo	and part	of NW4 o	f 86 N in order to
	NTS: <u>86 F,G,H,I,J,K,N,O,P</u>					
330018* (2551)	Quaternary geology, south- western Victoria Island	Sharpe, DR	TS	-	RP	<u>Frank</u> <u>Ont</u>
	Obj: To complete a systematic study character, composition, age, or landforms. To develop a more mapping of adjacent areas of Violatiand (eastwards). To compare mapping methods. To demonstrate	igin and history of the detailed understanding storia landform-sediment mappi application of these st	e Quaterr of sedim ng techni udies to	nary sedinent-landf ques with	ments and orms for reconnais	their respective evaluation and/or ssance and landsat
	selection, mineral exploration and NTS: 77 B,C,D,E,F; 67 C,F; Pts 87 A,	_	515.			
			70		0.0	Marata VI
330019 (2551)	Quaternary stratigraphy of the Beaufort Coast, Yukon and District of Mackenzie	Vincent, JS	TS	-	RP	Mack Yk
	Obj: To confirm the lithostratigraph Beaufort Sea Coast. To collect order to understand depositiona order to ascertain the age of the area, enable regional correlat compilation.	further samples for sec l environments. To col e sediments. This will h	dimentolog lect samp melp eluci	gical and ples for g dating th	paleoecol geochronol e Quaterna	logical studies in logical studies in ary history of the
	NTS: 97 C,F; 107 B,C,D,E; 117 A,C,D					
330020*	CURRENT INFORMATION	Tempelman-Kluit, DJ	С	-	CMG	BC
(2511)	Obj. To study and map the geology of rends wat Ahbas Laports	of Penticton map-area a and oral summaries as ap	and to propriate	oduce a c e.	omprehens	ive report of the
	NTS: <u>82 E</u>					
330021 (2511)	The Cordilleran Orogen: Canadian Sector	Gabrielse, H	С	-	CMG	-
	Obj: To produce a volume on the gratigraphy, structure, evolute energy resources. The volume wire of North American Geology (DNAG) serve as part of Geology and Economics of Serve as part of Serve as part of Serve as part of Serve as part of	tion, geophysical signa Il be one of 10 volumes project sponsored by th	ture, mi on the ge e Geologi	neral dep ology of (cal Socie	osits and Canada as	d geology related part of the Decade
330022* (2552)	Periglacial processes, Canadian arctic	Egginton, PA	TS	-	GPEG	Mack
	Obj: 1. To evaluate the distribution 2. To assess, on the basis of l effects on the terrain of per 3. To provide a national base environments.	long-term observation ar riglacial processes.	nd measur	ement the	character	
	NTC. 77 D					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
830023 ⁻ (2551)	Quaternary history and surficial materials of northwestern Baffin Island	Dyke, AS	TS	-	RP	Frank
	Obj: To map, describe, and explai Quaternary evolution of the are exploration.	n the Quaternary deposit ea and to provide informat	s and la	andforms in ant to lan	n order 1 d-use pla	to understand the anning and mineral
	NTS: 47 F,G; 48 B,C; 57 E,H; 58 A,D					
830024* (2551)	Quaternary geology, southwestern Saskatchewan	Klassen, RW	TS	-	RP	Sask
	Obj: To establish the Quaternary lito: establish criteria for rethe probable location and ext derived from different sources understanding the distribution controversies about the extending quaternary framework as an aid	cognizing units of differ ent of potential aquifers and deposited at differe on and nature of soil p nt of glaciation at dif	ent ages s; and ou nt times arent ma ferent	occurring utline the . The dat aterial, t times and	at the s distribu a obtaine o resolv to furt	surface; determine tion of materials ed are critical to ing long-standing her defining the
	NTS: <u>72 F,G</u>					
830025* (2552)	Quaternary stratigraphy, northern Ontario Lowlands	Shilts, WW	TS	-	SMT	Ont
	Obj: 1. To provide a basis for integrand adjacent regions. 2. To provide a means for assextensive drift-covered are	sessment of the geology a	-			
	NTS: <u>53</u> G, <u>H,I</u> ,J, <u>P</u>					
830026* (2571)	Geophysical Interpretation Abitibi Belt	Schwarz, EJ	RGG	RG	AI	Ont Que
	Obj: 1. To deduce the general (d geological data. 2. To interpret these data continuation and extent of	in terms of intra-belt s	structure	s with pa	rticular	attention to the
	NTS: <u>32; 42</u>					
830027* (2524)	Petrographic Analyses of coals in the Saunders Group, Outer Foothills Belt, Alberta	Cameron, AR	ISPG	CG	СТ	Alta
	Obj: 1. Determine petrographic chapetrography. 2. Determination of rank. 3. Investigate possible correstudies of Jerzykiewicz. NTS: 82 0; 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 ice and their dynamic perform	distribution, classificat ance when disturbed.	tion and	properties	of froze	en soil and ground
	NTS: 107 C; 96; 95; 85; 84; 94 J,K					
830029 (2531)	1:1 000 000 Map — western area of south Baffin Island	Taylor, FC	Р	- 1 1 00	SP	Frank
	Obj: To compile a 1:1 000 000 scale NTS: 36	e map of NIS 36 — to form	part of	the 1:1 00	00 000 sei	ries of maps.
830038* (2561)	Geomathematical applications the integration of geoscience in map d	Bonham-Carter, GF ata	EGM	EG	MAG	<u>Yk</u>
	Obj: To integrate diverse types of geophysical maps (aeromag., surveys), satellite imagery elsewhere). To develop and re diverse sources.	gravity, radiometric sur (Landsat MSS digital dat	veys), g .a), mine	eochemical ral occurr	surveys rences (f	(stream and lake rom CANMINDEX and
52	NTS: <u>105 I</u>					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
830039 (2512)	Marine Reflection Seismology of the Western Canadian Continental Marg	Frydecky, II jin	С	-	PMG	-
	Obj: To replace our analogue seismic reprocessing of acquired data. geological interpretation. To classification.	To improve resolution	of the	system for	easier a	and more accurate
830040 (2512)	Portable Receiver for Trisponder Navigational System	Frydecky, II	С	-	PMG	-
	Obj: To develop portable receiver for surveying of tidal flats, beach chain formed by the existing GSC	es and restricted offsh	ore are	as within	and on t a hyperbo	foot for detailed olic navigational
830041 (2572)	Research and Development in the Analytical Methodology of Geological Materials	Gregoire, DC	RGG	RGC	AL	-
	Obj: To provide for the analytical caims of the GSC.	chemistry research and d	developm	ent require	ments co	nsistent with the
830042* (2522)	Carboniferous and Permian biostratigraphy and conodont faunas, western and northern Canada	Higgins, AC	ISPG	Р	MiP	Alta <u>Sask</u> <u>Frank</u>
	Obj: To establish the biostratigraphi taxonomy of upper Paleozoic cond northern Canada, with particular Basin; to utilize microfossils a	odonts, scolecodonts, and r emphasis on the Wester	d other rn Canad	selected mag	icrofossi ary Basin	ls of western and and the Sverdrup
	NTS: <u>82</u> G,H, <u>J,O</u> ; <u>78 G</u> ; <u>79 B</u> ; <u>62 K,L</u>					
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 p office and/or field studies to be acquire industry and provincial framework within which these co officials and to scientists in deposits. To maintain an up-to-	be undertaken to meet the government data on Canadals occur. To provide government and industry	e requir da's coa authorit on the	ements of d 1 deposits ative advi resource p	the inven . To stu ce to se	tory program. To dy the geological nior Departmental
	NTS: 72 M,G,H					
830044 (2543)	Digital Microfossil Shape	Gradstein, FM	AGC	EPG	LBG	-
(20.07	Obj: To develop the capability f micropaleontological taxonomy, a			SIS (UMR),	, and t	o apply DMR to
830045 (2542)	Quaternary Biostratigraphic Methods for Marine Sediments	Vilks, G	AGC	EMG	Р	Arctic Offshore Atlantic Offshore
	Obj: 1. Develop foraminiferal biostra particularly off eastern and 2. Integrate biostratigraphy wi paleomagnetic profiles of sec 3. Provide paleontologic sedimen	Arctic Canada. th independent dating the diments.	hrough (;14, 0 ¹⁸ an	d amino	acid analyses and
830046 (2521)	Upper Cretaceous — Tertiary geology of Tuktoyaktuk Peninsula and adjacent areas	Price, LL	ISPG	RG	M	Mack
	Obj: To develop a stratigraphic model the Upper Cretaceous-Tertiary ro NTS: 107 B				nal and te	ectonic setting of
830049	Mine-assisted Enhanced Oil Recovery	Raicar, M	ISPG	PRAS	_	Ont
(2526)	Obj: To undertake research to evalua gravity drainage to a mine shaft oil fields and to evaluate the reservoirs. This research proje as an agent of EMR/OERD to assis	te technical and economic t. To assess the EOR po application of this te ct is outside the current	ic feasi tential echnolog t mandat	bility of of convent y in shall e of GSC.	ional oil ow heavy However,	g oil recovery by in depressurized oil and tar sand the GSC is acting

Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.	
830050 ⁻ (2572)	Geochemical exploration technology in ultrabasic complexes	Maurice, YT	RGG	RGC	RR	Ont Que	
	Obj: 1. To determine the favourabili Cu-Ni sulphides, platinum-gr 2. To develop and refine geocher 3. To improve on the existing d of basic and ultrabasic rock	oup elements, chromit nical exploration met ata base of platinum-	e, and gold hods for the	and silve se metals	r deposi in diffe	ts. rent environments	
	NTS: 21 L; 52 H						
830051* (250)	Geological Atlas of Canada	Okulitch, AV	DGO	-	SP	BC Alta	
(230)	Obj: To plan and organize the prepar synthesis of the bedrock geology by correlation charts, cross se	of Canada displayed	in a series d	of 1:1 mill	lion scal	e maps accompanie	
	NTS: Pts 82 H,L						
830052* (2552)	Norman Wells pipeline — performance monitoring	Harry, DG	TS	-	GPEG	Mack Alta	
	Obj: To examine the actual impact of Pipeline upon the geological er predictions of impacts made dur quality of the surficial geolog	nvironment of the upp ring the assessment r	er Mackenzie eview phase	<pre>Valley; for the p</pre>	to asses	ss the accuracy of and to assess th	f
	NTS: Pts of 84; <u>85</u> ; <u>95</u> ; <u>96</u>	•					
830053 (2544)	Data Inventory	Hardy, I	AGC	PS	-	-	
	Obj: 1. To provide an inventory of a 2. To analyze existing forms of 3. To compile information on t prepare reports annually.	data release and sug	gest new or				;0
830054 (250)	Gaspé-Lower St. Lawrence Geoscience Program	Maurice, YT	DGO	-	-	Que	
	 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. 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. 						
	NTS: 21 M,N,O; 22 A,B,C,G,H						
830055*	Facies Models of Modern Turbidites	Piper, DJW	AGC	EMG	-	_	
(2542)	Obj: To contribute information on modeep water sediments, in particulation facies in modern deep sea fans.	llar establishing the	D-ISPG proje relationship	ct on faci between m	es model esotopog	s for reservoirs i graphy and sedimer	n
830056* (2542)	Engineering Geology of the Atlantic Shelf	Lewis, CFM	AGC	EMG	SG	Atlantic Offshore	
	Obj: To assess the nature of seable Atlantic Shelf, especially Hibe			constrai	nts to d	development on th	ıe
	NTS: 1; 2; 3; 11; 14; 15						
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 Labra occurrence inferred from high r currents pathways in Tertiary s the paleocurrent regime of the	esolution acoustic mediments using reflec	ethods. To ction seismi	map the p	aleoposi	tion of deep ocea	an

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
830058* (2572)	Groundwater Geochemistry in Mineral and Hydrocarbon Exploration	Boyle, DR	RGG	RGC	RR	NS Ont
	Obj: 1. Development of methods of e groundwaters. 2. To set up a quality contro requirements of effective into 3. Studies of geochemical paramet 4. Investigate the role of groundeposits and determine guidel 5. Provide input into environment 6. Provide input into the geother NTS: 21 A	lled data base on groerpretation in mineral eters affecting groundwat indwater geochemistry in ins for exploration.	oundwate exploration	r chemistrion and en	ry to mee vironmenta	t the necessary 1 studies.
840001	Surficial geology inventory —	Vincent, JS	TS	-	RP	Mack
(2551)	area of Anderson River map area Obj: To map, describe and explain the and undertake geomorphic process that will: 1. aid in the implementation of 2. be pertinent to engineering co3. provide data relative to terra 4. elucidate the Quaternary history NTS: 97 A,B,C,D, Pt. 97 F	studies in order to pro the Territorial Land Use onstruction; ain sensitivity rating;	ovide are Regulat	eal knowle	afrost, an dge of geo	d organic cover, logy and terrain
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 and undertake geomorphic process that will: 1. aid in the implementation of the second of	studies in order to pro the Territorial Land Use onstruction; ain sensitivity rating;	ovide are Regulat	eal knowle		
840003* (2561)	Regional mineral resource assessment, northern Canada — II	Jefferson, CW	EGM	EG	RMRA	Yk <u>Mack</u> Kee Frank
	Obj: To conduct non-renewable resource planning activities including prodescriptive and genetic models resource evaluation. NTS: 77; 78; 87; 88; 95; 96; 97; 98;	posed national parks and of mineral occurrences	other c	onservatio	on areas.	To contribute to
840004*	Volcanic rocks of Kaminak Lake region, N.W.T.	Taylor, FC	Р	-	SP	Kee
(2531)	Obj: To collate data gathered and pareport. NTS: Pts 55 E,K,L	artially processed by [Or. R. R	idler and	compile i	t into a useful
840005*	Artillery Lake map area,	Henderson, JB	Р	_	BS	Mack
(2531)	Obj: To analyse and interpret geolo geological description and development of a cont between the Slave and Churchill NTS: Pts 75 O,P; 76 A,B	gical data, acquired opment of geological mod inuing program of activi	in the dels to l	be portray	Lake are	a, leading to a ological map and
840008*	Structure and Tectonics of	Harrison, JC	ISPG	RG	AI	Frank
(2521)	Melville and Adjacent Islands Obj: 1. Production of 1:250 000 scale 2. Structural and Tectonic analy: 3. Assessment of hydrocarbon and NTS: 78; 79; 88; 89; 98; 99	sis	tial			
	110. 10, 12, 00, 03, 30, 33					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
840010	Fluid rock interactions	Foscolos, AE	ISPG	PG	GC	-
(2523)	Obj: To examine the mutual interaction rocks) under stressed conditions oil recovery techniques.	ons of minerals and org	anic ph	ases in ro	cks (espe	
840011 (259)	Establishment of a Branch inductively-coupled argon plasma-emission spectroscopy (ICAP-ES) analytical facility	Maxwell, JA	DGO	-	SP	Ont
	Obj: To acquire, install and put into geological materials using induct					the analyses of
840012* (2561)	Regional mineral resource assessment — northern Canada — I	Scoates, RFJ	EGM	EG	RMRA	Frank Mack
	Obj: To conduct non-renewable resour planning activities including pro	ce assessment studies b oposed national parks an	oased or Id other	regional conservat	metalloge ion areas.	eny for land use
	NTS: 77; 78; 87; 88; 95; 96; 97; 98					
840013* (2531)	Granulites of Northern Churchill Province	Schau, M	Р	-	NC	<u>Frank</u>
	Obj: To study 2 new granulite terrane complexes and their country rock, to provide geological, geophysi formation and/or emplacement.	as well as determine ea	sily mea	asured vari	ables from	n samples on hand
	NTS: <u>47 C</u>					
840014* (2552)	Characterization of ground ice occurrence in northern Canada	Harry, DG	TS	-	GPEG	Mack Frank <u>Yk</u>
	Obj: To develop an understanding of the range of geomorphic and geologica ice conditions and terrain performance.	l settings and to develo	p models	s for the b	etter pred	
	NTS: 107; 117 pts					•
840015* (2541)	Seabed II	Fader, GB	AGC	RR	SBG	Atlantic Offshore
	Obj: To assist in the joint PILP (NRC sidescan sonar, integrated geolog of 500 and 2000 metres on the co	gical and bathymetric ma	apping s	ystems des	d high res igned to c	solution seismic, operate to depths
840016* (2531)	Etudes des roches Archéennes et Protérozoïques dans la régon du Front de Grenville entre Chibougamau et Val d'Or, Québec	Ciesielski, A	Р	-	SG	Que
	Obj: 1. Reconnaissance des séries Ar	chéennes au sub-est de	la ZTI	FG (du zon	e tectoni	que du Front de
	Grenville); 2. Etudes des styles structuraux 3. Comparaison des contextes géo 4. Chronologie absolue et relati	logiques de part et d'au	itre de	la ZTFG; toides adj	açents a 1	la ZTFG.
	NTS: 32 G,H,I,J				-	
840017 (2541)	A.O.D.P. Site Survey, Labrador Sea	Srivastava, SP	AGC	RR	OAOG	Atlantic Offshore
	Obj: To carry out detailed surveys of seismic reflection and refraction would be to map in as much d properties and geophysical signa	on, coring and heatflow etail as possible the	measure bathyme	ements. The etry, base	ne purpose	e of this survey
840018*	Comparative Regional Metallogeny	Poulsen, KH	EGM	EG	RMS	Ont Man Sask
(2561)	Obj: To determine the relationships be various tectonostratigraphic demineralization and their application the central Canadian Shield.	omains; to contribute	to d	escriptive	and gen	etic models of
	NTS: 42; 52; 62; 63; 64; 73; 74					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
840019* (2521)	Stratigraphy, sedimentology and diagenesis of Lower Paleozoic rocks in the Northern Yukon Territory and in the region of the Mackenzie McYukon Territory and Northwest Territory	ountains,	ISPG	RG	М	<u>Yk</u> Mack
	Obj: 1. To establish a comprehensive and to establish correlations 2. To determine the nature of Paleozoic sequence of the Nor 3. To analyse the sequence of influence of diagenesis on mi	with the Lower Paleoz locations of the shel thern Yukon Territory. Hiagenetic events that	oic seque f-to-basi	nce of Mac in transit	kenzie Mo ions thro	untains. ughout the Lower
	NTS: 95; 105; <u>106</u> <u>D,E</u> ; <u>116</u> <u>H</u>					
840020 (2531)	Paleomagnetism of Proterozoic igneous and sedimentary rocks of the Precambrian Shield	Fahrig, WF	Р	-	PMag	Nfld NB NS Que Ont Man Sask Frank Mack Kee
	Obj: To measure the paleomagnetism of use in determining the correla formation, the relative movemer contribute general information o units.	ition of these units, its of cratonic plates	their p	aleolatitu he formati	de at th ion of th	e time of their ese units and to
	NTS: Pts. 12-14; 21-27; 30-39; 40-49;	52-58; 62-66; 73-78;	84-88; 97			
840021* (2531)	Study of Gaspé Granites	Whalen, JB	Р	-	PET	Que
(2551)	Obj: To improve existing maps of deta 1. the various granite phases ar 2. the mienralogy and modal abur 3. the bulk rock major and trace 4. the mineral phase composition 5. isotope and rare earth geoche	d their field relation dances in various phase element compositions s for magma modelling,	ships; es; of units;	ic samplin	g to esta	blish:
	NTS: Pts 22 A,B					
840022 * (2531)	Structure and petrology of the aureole of the Mount Albert peridotit		Р	-	PET	Que
	Obj: To determine the nature and structure reference to the timing and med emplacement on the structural, to NTS: 22 H/4	hanism of emplacement	of perid	otite, and	the effe	
840023* (2531)	Stratigraphy and sedimentology of Silurian rocks of Gaspé	Currie, KL	Р	-	PET	Que
	Obj: To determine the tectonic-strat Formations from the provenance, sedimentary materials.					
	NTS: Pts 22 B					
840024* (2531)	Geology of the Northern Long Range Mountains, Newfoundland and adjacent areas	Currie, KL	Р	-	PET	Nfld
	Obj: To map and describe the metamor adjacent areas at 1:100,000 or r terrane, and evaluate its minera	more detailed scale; to				
	NTS: Pts 12 H, I; 2 E					
840025* (2531)	Geology and petrology of the Belleoram stock, Newfoundland	Furey, D	Р	-	PET	<u>Nfld</u>
	Obj: To carry out detailed mapping textural and structural variabil level of emplacement, and the in similar plutons.	ity and to investigate	the coun	try rocks	to determ	ine mechanism and
	NTS: <u>2 E</u>					

Project Number	Title	Project Le ade r	Div.	Subdiv.	Sec.	Prov.
840026* (2571)	Regional Interpretation of Gamma Ray Spectrometry	Charbonneau, BW	RGG	RGP	RG	<u>Ont</u>
	Obj: 1. To prepare compilations of 1:5,000,000.2. To relate the regional rad the results in collaboration	iometric compilations to	other ge	oscientifi	c data se	ts. and interpret
840027	Technology Transfer	Collett, LS	RGG	RGP	_	-
(2573)	Obj: To exploit geoscience techno industry; also to provide advi government agencies; and to con in writing.	ce on developing geoscie	ence techn	ology rele	vant to i	ndustry and other
840028 (2571)	Applications of Gamma Ray Spectrometry	Ford, KL	RGG	RGP	RGG	Ont NB
	Obj: To maximize the usefulness of 1. an aid to geological mappin 2. a multi-element exploration	g; and	trometric	surveys as	:	•
	NTS: <u>31</u> C, <u>L</u> ; 21 G,J					
840029* (2573)	Beaufort Sea Permafrost Geotechnics	*	RGG	RGP	TG	Mack
	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	-	Ont Man
	Obj: 1. To develop and apply method the Nuclear Fuel Waste Mana 2. To determine the physical p 3. To determine rates of fluid	gement Program. roperty distribution in	rock mass	es over di	stances o	of kilometres.
	NTS: 31 K; 41 J; 52 B; 62 I					
840031*	Borehole Geophysics/Applications Development	Killeen, PG	RGG	RGP	BG	Ont Que Man
	Obj: 1. To develop and demonstrate mineral exploration and min 2. To determine methods to experimental development.	ing;				
	NTS: 41 J; 42 A; 52 L					
840032* (2572)	Lithogeochemical Studies, Gaspé Peninsula	Maurice, YT	RGG	RGC	RR	Que
	Obj: To provide systematic data on a units in the Gaspé Peninsula. succession, evaluate the degrinterpretation of surficial ultimately lead to a better und in the region.	This will permit recor ree of weathering which (stream. soil. till) go	nstitution has affe eochemical	of the every cted these	olution o e rocks, All this	of the sedimentary and help in the information will
	NTS: <u>22 A,B,G,H</u>					
840033* (2512)	Potential geologic hazards to development — seafloor and shallow subbottom of Queen Charlotte Sound,	Luternauer, JL B.C.	С	-	PMG	Pacific Offshore
	01 1 1 1 1 1 1 1 1 1					

Obj: Identify, describe and map sedimentary, morphologic and structural evidence of potential hazards on the seafloor and shallow subbottom (down to ~500 m below the seabed) which could affect the course of hydrocarbon exploration and production on the Queen Charlotte Sound, continental shelf.

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 ge order to regulate oil and gas ex Hecate Strait and Dixon entran submissions from industry could be to establish the regional seabed seafloor materials, and geotechnicates to Offshore development assessed.	ploration and production ce. The information e meaningfully and conf d characteristics included ical properties of the	on activ would p idently uding su surficia	ities and rovide a assessed. bstrate ty l material	facilitie data base The progr pe, bedfo s. In add	s in the area of by which later ram would attempt rms, mobility of dition, potential
840035* (2551)	Géologie du Quaternaire et géochimie des tills de la région Mont-Joli/La Rédemption, Québec	Veillette, JJ	TS	-	RP	Que
	Obj: 1. Cartographier les formations et 2. Déterminer la répartition, la sur le transport des matériaux 3. A l'aide des résultats de labor de minéralisation.	hiérarchie et l'infuenc	e relati	ve des div	ers écoule	
	NTS: Pts 22 B,C					
840036 (2541)	Digital single-channel seismic data acquisition system	Nichols, B	AGC	RR	OBM	Atlantic Offshore
	Obj: 1. To improve the quality of seis 2. To enable application of digit 3. To enable optional plotting an	tal processing technique	es to re	flection d	ata; and	
840037	Magnetic Interpretation Techniques	Broome, J	RGG	RG	AI	-
(2571)	Obj: To develop new qualitative and qu data as well as the refinement, o	antitative methods for a compilation and documen	the geolo tation o	ogical inte f existing	erpretatio methods.	n of aeromagnetic
840038* (2540)	Ocean Drilling Program: planning	Keen, MJ	AGC	-	-	Atlantic Offshore
	Obj: 1. To contribute effectively to 12. To complete planning for dril auspices of the Canadian Plant	ling in the Labrador Se	ational a and po	planning p ssibly Baf	rocesses (fin Bay in	of the Program. n 1985, under the
840039*	Evolution of East Coast Paleozoic Basins	Bell, JS	AGC	EPG	PBG	NS NB PEI
	Obj: 1. To obtain an understanding evolution of the offshore con: 2. To incorporate new data as the 3. To use the data compilations at NTS: 11; 20; 21	tinental margins of eas ey become available.	tern Can	ada.		
840040*	Aeromagnetic Survey Contract:	Ready, EE	RGG	RG	CS	Frank
(2571)	Northwestern Baffin Island Obj: To provide adequate aeromagnetic stimulation to mineral exploration to the contract entails the acquising recorded medium sensitivity aeromagnetic structure.	on in the area. tion and compilation of	approxi	mately 64,0	000 line k	ms. of digitally-
	NTS: 48 A,B,C,D; 58 A,D					
840041* (259)	Canada-Saskatchewan Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	-	Sask
	Obj: To coordinate ERDA supported, timeliness, integration and comp	GSC geoscience invest letion.	tigations	s in Sask	atchewan	to ensure their
840042* (259)	Canada-Manitoba Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	-	Man
	Obj: To coordinate ERDA supported, GS integration and completion.	C geoscience investigat	ions in	Manitoba t	o ensure	their timeliness,

Project Project Number Title Leader Div. Subdiv. Sec. Prov. 840043* Geology of the Meguma Group and Rogers, HD Р PET NS (2531)associated granitoid plutons in the Shelburne area, Nova Scotia Obj: To complete and update regional mapping of plutons and surrounding Meguma Group to provide a geological base for mineral exploration. NTS: 20 P; 21 A 840044* Geology of the Sporting Mountain Sexton, AJ P PET NS (2531)granitoid complex Obj: To bring knowledge of the Sporting Mountain granitic body and surrounding rocks to modern standards. NTS: Pts 11 F 840045* Stellarton Basin Analysis Yeo, G PET NS (2531) Obj: During the period 1984-1989 to review, integrate and update the geological data on the late Carboniferous rocks of the Stellarton Graben and adjacent areas, to provide a base for assessment of their coal, oil shale, methane and metal (especially Cu, Pb and U) potential. NTS: Pts 11 E 840046* Geology of the Iskut River -Anderson, RG C CMG BC (2511)Telegraph Creek, British Columbia Obj: To update geological mapping and increase understanding of volcanic and sedimentary stratigraphy, granite plutonism and structure and to provide details useful in mineral exploration. An attempt will be made to extend stratigraphy defined to the east and south of the region into the map areas. NTS: 104 B,C,F,G 840047* Compilation of the geology of Trettin, HP TSPG RG ΑT Frank (2521)the Innuitian Region Obj: To produce a comprehensive report on the geology of the Innuitian region as part of DNAG (Decade of North American Geology) series. NTS: 89 A; 120 C; 340 C,D 840048* Melville Project Christie, RL ISPG RG ΑI Frank (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. 2. Prepare appropriate maps and reports for publication. NTS: 78; 79; 88; 89; 98; 99 840049* Stratigraphy and sedimentology Gibson, DW **ISPG** CG CG BC Alta (2524)of the Lower Cretaceous Hulcross and Boulder Creek Formations, Rocky Mountain Foothills, Alberta and British Columbia 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 within the Boulder Creek Formation throughout the region; to attempt to determine criteria useful in determining the sub-environments in which the marine-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,M; 93 I,O,P; 94 A,B 840050* Metallogeny of Ultramafic Eckstrand, OR FGM FG MDG Ont Que Man (2561)and Mafic Rocks Sask Mack

Obj: 1. To increase the understanding of the occurrence and origin of mineral deposits associated with

ultramafic and mafic rocks in Canada.

2. To provide geological knowledge applicable in the exploration, development, exploitation and appraisal of resources associated with such rocks including nickel, copper, platinum group elements, cobalt, chromium, vanadium, titanium and asbestos.

NTS: 42 A; 52 H; 23 J; 63 K,O; 64 C; 74 A; 75; 76

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
840051* (2561)	Geological Evaluation and Remote Sensing (GEARS)	Rencz, AN	EGM	EG	MAG	Ont Yk Que
	Obj: 1. To initiate and develop remo 2. To develop programs/projects 3. To assist in cooperative pro- existing and planned projects	in image analysis; and jects with GSC and non G				
	NTS: 31 C,F; 105 I; 31 J,K					
840052* (2572)	Heavy Mineral Studies, Eastern Townships	Maurice, YT	RGG	RGC	RR	Que
	Obj: To evaluate the favourability platinum group elements on the					
	NTS: <u>Pts 21 E</u> ,L; 31 H					
840053* (2572)	Heavy Mineral Studies, Gaspé	Maurice, YT	RGG	RGC	RR	Que
(2072)	Obj: To evaluate the favourability f other elements on the basis of on NTS: Pts 22 A,B,G,H	or the occurrence of ec the dispersion of heavy	onomic d minerals	eposits of in stream	Au, Sn, W	, Ba, Ia, Nb and
			200			
840054* (259)	Asbestos Initiatives Program — Geoscience Surveys Eastern Townships Quebec		DG0	-		Que
	Obj: To coordinate GSC geoscience in Program to ensure their timeline	vestigations in Quebec t ess, integration and com	hat are s mpletion.	supported b	y the Asbe	estos Initiatives
	NTS: Pts 21 E,L; 31 H					
840055 (2573)	Rock Properties Laboratory	Stephens, LE	RGG	RGP	BG	-
(2373)	Obj; To establish a rock properties 1. To provide physical rock pi Logging). 2. To investigate physical rock	roperty measurements in			projects	s (e.g. Borehole
840056	Potential Fields Data Base	Woodside, J	AGC	RR	GPS	NS Ont BC
(2541)	Operations Obj: 1. Expansion and modification	•				
	bathymetry data. 2. Development of software for National Marine Geophysical 3. Preparation and entry of all	access, manipulation, Data Base.	and dis	play at AG	C of AGC	data in the new
840057*	Geophysical Surveys in Quebec	Schwarz, EJ	RGG	RG	AI	Que
(2571)	Obj: To aid in mineral development carried out under contract and			using ap	plied geo	physical surveys
0400501	NTS: 21; 22; 31	(0 03)	DOO	000		NC
840058* (2572)	Follow-up Geochemistry Obj: Assess, investigate and determ secondary environment of Nova S	(Rogers, PJ) ine the geochemical na	RGG ture of	RGC regionally	defined	NS anomalies in the
	NTS: Pts 11 E	cotta ana to acverop nev	· iii i i i c i a i	CAPTOTAGE	on me unoue	, 10g 103 •
840059* (2561)	Metallogeny of Eastern Canada II	Birkett, TC	EGM	EG	RMS	Nfld NS NB Que
	Obj: 1. To determine the relationshi Canadian Appalachian, easter 2. To contribute to descriptive application to exploration a	n Grenville and Superior e and genetic models of	r and sou mineral	theastern occurrenc	Churchill	Province.
840060 (259)	Canada-Newfoundland Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	-	Nfld
	Obj: To coordinate ERDA-supported timeliness, integration and com		igations	in Newfo	undland 1	to ensure their

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
840061* (2540)	Boundary disputes: St. Pierre and Miquelon; Beaufort Sea	Keen, MJ	AGC	-	-	Atlantic Offshore Arctic Offshore
	Obj: To manage investigations by AGC contribute effectively to advice and 85/86 in matters involving thereafter as may be needed.	from EMR to External o	oncernin	g these di	sputes in	the period 84/85
840062* (2573)	High Resolution Seismic Investigations of Carboniferous Rocks, Nova Scotia	Hunter, JA	RGG	RGP	TG	NS
	Obj: 1. To obtain regional structure (2. To obtain detailed structure (3. To obtain regional structure Island.	of coal-bearing Carboni	ferous r	ock in the	Springhi	ll area. ea of Cape Breton
	NTS: 21 H; 11 F					
840063* (2573)	Ice Island Seismic Reflection Studies	Overton, A	RGG	RGP	TG	Arctic Offshore
	Obj: To conduct seismic reflection en recording sedimentary and basement					
840064 (259)	Canada-Nova Scotia Mineral Development Agreement (ERDA)	Poole, WH	DGO	••	-	NS
	Obj: To coordinate ERDA supported GSC integration and completion.	geoscience investigation	ons in No	va Scotia	to ensure	their timeliness,

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Jackson, G.D. Jackson, H.R. Jackson, L.E. Jansa, L.F. Jefferson, C.W. Jerzykiewicz, T. Jonasson, I.R.	670002; 690061; 770013*; 770028 780049; 810040 740095; 770060; 780045; 800001 710059*; 770004* 840003* 810039* 740081*; 740107*	Okulitch, A.V. ex-Ollerenshaw, N.C. Olson, D.G. Orchard, M.J. Osadetz, K.G. Overton, A.	790042; 830051* 820049 680081* 810028*; 810029 780003 820023; 840063*
Josenhans, H.W. Kalkreuth, W.D. Kaszycki, C.A. Katsube, T.J. Keen, C.E. Keen, M.J. Kettles, I.M. Killeen, P.G. King, L.H. Kirkham, R.V. Klassen, R.A. Klassen, R.W. Kornik, L.J. Kurfurst, P.J.	810037* 750088*; 770051*; 790020?; 810015; 810019* 780002* 810043*; 840030 800034 840038*; 840061* 800027 840031* 730072 700059* 750074; 780018; 820039* 770031; 830024* 720080 820038*	Pedder, A.E.H. Pelletier, B.R. Percival, J.A. Piper, D.J.W. Plant, A.G. Poole, W.H. Poulsen, K.W. Poulton, T.P. Price, L.L. Price, R.A. Proctor, R.M. Pugh, D.C. Pullan, S.	680093* 720102; 780026 820006* 810047*; 820050; 830055* 620308 800023; 810048: 820020; 840041*; 840042*; 840060; 840064 840018* 760042* 830046 650023 720066 800003 800018*
Lachance, G.R. Lambert, M.B. Łarose, J.M. LeCheminant, A.N. Lee, P.J. Leech, G.B. Lewis, C.F.M. Lichti-Federovich, S. Loncarevic, B.D. Lund, N.G. Luternauer, J.L. Lydon, J.W. Lynch, J.J.	380077; 690090 730040; 740019 400006* 780008; 820004 750023 620018 790018*; 830056* 720078 810031*; 820047 790002* 740062*; 790006 770063* 780024*	Raicar, M. Rashid, M.A. Ready, E.E. Reesor, J.E. Reid, I. Rencz, A.N. Richard, S.H. Richards, B.C. Ricketts, B.D. Roddick, J.A. Rogers, H.D. Rogers, P.J. Roscoe, S.M. Ruzicka, V.	770053; 820032; 830049 750046 840040* 790030*; 790044 800035-; 830002 840051* 680027; 740068* 810011* 770047* 630016* 840043* 840058* 770055* 750010*
(Mackay, J.R.) MacLean, B. Macnab, R.F. Manchester, K.S. Manistre, B.E. Matthews, J.V. Maurice, Y. Maxwell, J.A. Mayr, U. McGlynn, J.C. McGregor, D.C. McIntyre, D.J. McLaren, P. McMechan, M.E. McMillan, N.J. McNeely, R.N. McNeil, D.H. Meijer-Drees, N.C. Miller, A.R. Monger, J.W.H. Morrow, D.W. Mott, R.J.	680047* 760015* 730081* 800041; 830003 750068 730027* 760047; 830050 ⁻ ; 830054; 840032*; 840052*; 840053* 840011 810016 680012 ⁻ 750036 820035* 780027* 810010 750024*; 770068; 830005 590457* 780029 810017 810024* 800029* 670016 ⁻ 690064*	St. Onge, D.A. St. Onge, M.R. Sanford, B.V. Sangster, D.F. Sawatzky, P. Schafer, C.T. Schau, M. Schwarz, E.J. Scoates, R.F.J. Sexton, A.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.	830017*; 840002 810020 750061* 650056*; 730042; 800021 770015 800020*; 830057* 720062; 800008; 840013* 830026*; 840057* 840012* 840044* 830018* 690095*; 730013; 830025* 770071* 810003* 830011 810009 830043 730062; 760053¯; 760054; 760063; 820037 730067*; 770001* 780042; 810045; 840017 650027* 640048*
Mottershead, K.	780001	•	

Stephens, L.E.	840055	Utting, J.	810038*
Stott, D.F.	780039*; 810013	Uyeno, T.T.	680101
Struik, L.C.	820014*		
Sweet, A.R.	710091*	Van Breemen, O.	830006*
Syvitski, J.P.M.	810041*; 810042*	Veillette, J.J.	770030; 840035*
		Vilks, G.	830013*; 830045
Taylor, F.C.	830029; 840004*	Vincent, J.S.	740065; 810007; 830019; 840001
Taylor, G.C.	810012"; 820031		
Taylor, R.B.	750043*; 800015; 820043; 830001	Wade, J.A.	720104*
Tella, S.	790009; 820007	Wall, J.H.	720044
Tempelman-Kluit, D.J.	730037; 770017; 830020*	Whalen, J.B.	840021*
Teskey, D.	820027*	Wheeler, J.O.	790041*; 800033
Thompson, P.H.	830010*	Williams, G.K.	710033
Thompson, R.I.	750019; 780028; 800022*	Williams, G.L.	810032; 820003; 820041
Thorpe, R.I.	680060*; 780032; 810025	Woodside, J.	840056
Thorsteinsson, R.	650003*	Woodsworth, G.J.	770020; 800028*
Tipper, H.W.	750035*		
Tozer, E.T.	670576*	Yeo, G.	840045*
Trettin, H.P.	730051; 840047*	Yorath, C.J.	770006*

<u>General</u>					
380077	830001	790031*	770044*	740092	770077*
400006*	830003	790033*	770047*	750006	780002*
500029	830006*	790044	770055*	750024*	780008
550101*	830011	800001	770063*	750051*	780012
570148	830015	800011*	780009	750063*	780035*
580175*	830021	800018*	780029	750071	790009
590457*	830038*	800022*	780035*	750083	800008
620308	830039	810004	790007	750098*	800012
640402	830040	810008*	790008	760010	810044*
680017	830041	810009	790031*	760023	820004
680071	830044	810013	790033*	760026	820007
680090	830051*	810022	800001	760042*	820008*
680091	830053	810028*	800003	760047	840003*
680114	830055*	810029	800006*	760053	
690038	840010	820015	800009	760058*	British
690090	840027	820035*	800030*	770012*	Columbia
700027*	840037	830007*	810003*	770013*	
700059*	840055	830016*	810005*	770028	500029
720056		830019	810013	770037	570029*
720066	Yukon	830028	810020	770047*	610019*
730019*		830038*	810021	770063*	610269
730042	500029	840003*	810022	770068	620018
730062	610007	840014*	820002	780018	630016*
740041*	610019*	840019*	820009*	780035*	650023
740042	650013	840051*	820035*	790016	650024
750023	650024		820038*	790024	670576*
750036	650056*	Mackenzie	830007*	790029	680060*
750039	670576*		830008*	790031*	680066
750068	680031	500029	830010*	790042	680081*
750094	680047*	610007	830016*	800031	680093*
750110	680093*	610019*	830017*	810007	690075*
760004	680109	650024	830019	810016	700047
760060	690005	660009*	830022*	810038*	710022*
760062	700034	680031	830028	810044*	710091*
760064	710020	680047*	830046	820035*	720098
760065 770004*	710022*	680060*	830052*	820043	730035*
7700047	710091* 720102	680093* 680109	840001 840002	830018*	730067* 740062*
770013	730035*	690005	840002	830023 ⁻ 830028	740082*
770054	730037	700034	840012*	830029	740091*
770067	730057*	710020	840014*	830042*	740095
770072	740081*	710022*	840019*	840003*	740098*
780001	740098*	710023	840029*	840008*	740107*
780021	740107*	710033	840050*	840012*	750018
780026	750023	720052	0.0000	840014*	750019
780032	750025	720102	Franklin	840040*	750035*
780049	750035*	730040		840047*	750051*
790004	750051*	730057*	570029*	8400048*	750069*
790036*	750069*	740017	610019*		750076
790037	750076	740019	650003*	Keewatin	750088*
790040	760042*	740081*	650056*		750108*
800021	760059	740092*	670002	570029*	760042*
800033	760063	740107*	670016	660006	760059
800041	770001*	750010*	680064*	680012	770001*
810009	770017	750025	680093*	680101	770006*
810015	770025*	750055	680101	720062	770016*
810023	770031	750069*	680109	730013	770020
810024*	770044*	750076	690061	740017	770024*
810025	770047*	750098*	710022*	740084	770025*
810035	770063*	760024	720044	750010*	770031
810045	770068	760042*	720062	750071	770041*
820024	770071*	760047	720078	750074	770044*
820031	780029	760059	720081	750098*	770060
820032	780035*	760063	720102	750102	770071*
820037	790003*	770012*	730051	760047	780003
820042	790005*	770019 ⁻	740017 740065	760058* 770032	780004 ⁻ 780006*
820048 820049	790007 790008	770024* 770025*	740065	770032 770055*	780006* 780027*
020043	/ 30000	770023"	/4000/	770055"	/0002/ "

780028	780004 ⁻	840018*	750051*	750069*	800023
780039*	780006*	840050*			810003*
		840050^	750061*	750098*	
780045	780028		750098*	760014	810046
790002*	780039*	Manitoba	760027*	760027*	810048
		Harricoba			
790003*	780045		760061*	760061*	820013
790006	780047	570029*	770030	770027	820021*
790008	790008	680081*	770071*	770030	820046*
790013	790013	680093*	770077*	770063*	830058*
790020?	790020?	720071*	780002*	770071*	840043*
790022	790022	720080	780015*	770077*	840044*
790030*	790034*	730001*	780016*	780002*	840045*
790034*	790038*	740016	780017*	780012	840056*
790038*	800018*	740017	780024*	780016*	840058*
790041*	810010	740091*	780033	780017*	840059*
800011	810011*	750069*	780035*	780024*	840062*
800018*	810013	750072*	780047	780033	840064
800020*	810014	750098*	790002*	780035*	
					N C
800028*	810017	770055*	790034*	790025*	Newfoundland
800029*	810018	770063*	800013	790034*	
810006*	810019*	770077*	800018*	800005	500029
810010	810039*	780003	800027	800013	570029*
810011*	820001*	780011	800030*	800018*	650056*
810012	820010*	780015*	810003*	800019 ⁻	680102*
810013	820021*	780016*	810005*	800020*	680109
810014	820033	790002*	810008*	800023	690065
810018	820035*	800007*	810043*	800027	710061*
810019*	830005	800014	820005*	800030*	720071*
810028*	830016*	800018*	820006*	810042*	720072
810029	830027	800024	820010*	820005*	730043
820014*	830028	810003*		820010*	730044
			820012		
820016	830042*	810013	820021*	830009*	740017
820017	830043	810043*	830009*	830026*	740072*
820018	830051*	820006*	830018*	830050	740091 <u>*</u>
820027*	830052*	820010*	830025*	830054	740110 ⁻
830006*	840049*	820012	830026*	840031*	750010*
	040043"				
830016*		820021*	830049	840032*	750011
830020*	Saskatchewan	820033	830050 ⁻	840035*	750043*
	Saskacenewan				
830028		830014*	830058*	840050*	750051*
830051*	570029*	830042*	840018*	840051*	760014
840046*	640420	830043	840026*	840052*	760043
840049*	650027*	840018*	840028*	840053*	770024*
840056	680012	840030	840030	840054*	770026 -
0.0000				840057*	770077*
	680093*	840031*	840031*		
Alberta	720071*	840041*	840042*	840059*	780016*
	720073		0.400501		
500000		840050*	840050*		780025
500029		840050*	840050*	Name Cashir	780025
	720080	840050*	840051*	Nova Scotia	790002*
570029*	720080		840051*	Nova Scotia	
570029* 610019*	720080 730001*	840050* <u>Ontario</u>			790002* 790025*
610019*	720080 730001* 740017	<u>Ontario</u>	840051* 840056	500029	790002* 790025* 800023
	720080 730001*		840051* 840056		790002* 790025* 800023 810003*
610019* 610269	720080 730001* 740017 740081*	<u>Ontario</u> 570029*	840051*	500029 650056*	790002* 790025* 800023 810003*
610019* 610269 650023	720080 730001* 740017 740081* 740091*	<u>Ontario</u> 570029* 590457*	840051* 840056 Quebec	500029 650056* 680102*	790002* 790025* 800023 810003* 810036*
610019* 610269 650023 650027*	720080 730001* 740017 740081* 740091* 750010*	Ontario 570029* 590457* 640048*	840051* 840056 Quebec 570029*	500029 650056* 680102* 680109	790002* 790025* 800023 810003* 810036* 820010*
610019* 610269 650023	720080 730001* 740017 740081* 740091*	<u>Ontario</u> 570029* 590457*	840051* 840056 Quebec	500029 650056* 680102*	790002* 790025* 800023 810003* 810036*
610019* 610269* 650023 650027* 670576*	720080 730001* 740017 740081* 740091* 750010* 750051*	Ontario 570029* 590457* 640048* 650056*	840051* 840056 Quebec 570029* 640048*	500029 650056* 680102* 680109 690064*	790002* 790025* 800023 810003* 810036* 820010* 820020
610019* 610269* 650023 650027* 670576* 680027	720080 730001* 740017 740081* 740091* 750010* 750051* 750069*	Ontario 570029* 590457* 640048* 650056* 680023*	840051* 840056 Quebec 570029* 640048* 650056*	500029 650056* 680102* 680109 690064* 700056	790002* 790025* 800023 810003* 810036* 820010* 820020 820021*
610019* 610269* 650023 650027* 670576* 680027 680093*	720080 730001* 740017 740081* 740091* 750010* 750051* 750069* 750098*	Ontario 570029* 590457* 640048* 650056* 680023* 680060*	840051* 840056 Quebec 570029* 640048* 650056* 680060*	500029 650056* 680102* 680109 690064* 700056 710061*	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022*
610019* 610269* 650023 650027* 670576* 680027 680093*	720080 730001* 740017 740081* 740091* 750010* 750051* 750069*	Ontario 570029* 590457* 640048* 650056* 680023* 680060*	840051* 840056 Quebec 570029* 640048* 650056* 680060*	500029 650056* 680102* 680109 690064* 700056	790002* 790025* 800023 810003* 810036* 820010* 820020 820021*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034	720080 730001* 740017 740081* 740091* 750010* 750051* 750069* 750098* 760047	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081*	840051* 840056 Quebec 570029* 640048* 650056* 680060* 680081*	500029 650056* 680102* 680109 690064* 700056 710061* 720071*	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034 710022*	720080 730001* 740017 740081* 740091* 750051* 750069* 750098* 760047	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081* 700018	840051* 840056 <u>Quebec</u> 570029* 640048* 650056* 680060* 680081* 680101	500029 650056* 680102* 680109 690064* 700056 710061* 720071*	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039* 830013*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034	720080 730001* 740017 740081* 740091* 750010* 750051* 750069* 750098* 760047	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081* 700018 720071*	840051* 840056 Quebec 570029* 640048* 650056* 680060* 680081*	500029 650056* 680102* 680109 690064* 700056 710061* 720071* 720072 730001*	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039* 830013* 840059*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034 710022* 710091*	720080 730001* 740017 740081* 740091* 750051* 750069* 750098* 760047 770053 770055*	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081* 700018 720071*	840051* 840056 <u>Quebec</u> 570029* 640048* 650056* 680060* 680081* 680101 680102*	500029 650056* 680102* 680109 690064* 700056 710061* 720071* 720072 730001*	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039* 830013* 840059*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034 710022* 710091* 720098	720080 730001* 740017 740081* 740091* 750010* 750051* 750069* 750098* 760047 770053 770055* 780003	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081* 700018 720071* 720072	840051* 840056 Quebec 570029* 640048* 650056* 680060* 680081* 680101 680102* 690064*	500029 650056* 680102* 680109 690064* 700056 710061* 720071* 720072 730001* 730043	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039* 830013*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034 710022* 710091* 720098 730001*	720080 730001* 740017 740081* 740091* 750010* 750051* 750098* 750098* 760047 770053 770055* 780003 780015*	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081* 700018 720071* 720072 720078	840051* 840056 Quebec 570029* 640048* 650056* 680060* 680081* 680101 680102* 690064* 690095*	500029 650056* 680102* 680109 690064* 700056 710061* 720071* 720072 730001* 730043	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039* 830013* 840059*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034 710022* 710091* 720098	720080 730001* 740017 740081* 740091* 750010* 750051* 750069* 750098* 760047 770053 770055* 780003	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081* 700018 720071* 720072	840051* 840056 Quebec 570029* 640048* 650056* 680060* 680081* 680101 680102* 690064*	500029 650056* 680102* 680109 690064* 700056 710061* 720071* 720072 730001* 730043	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039* 830013* 840059*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034 710022* 710091* 720098 730001* 740081*	720080 730001* 740017 740081* 740091* 750010* 750051* 750098* 750098* 760047 770053 770055* 780003 780015* 780047	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081* 700018 720071* 720072 720078 720080	840051* 840056 Quebec 570029* 640048* 650056* 680060* 680081* 680101 680102* 690064* 690095* 720071*	500029 650056* 680102* 680109 690064* 700056 710061* 720071* 720072 730001* 730043 730044 740084	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039* 830013* 840059*
610019* 610269* 650023 650027* 670576* 680027 680093* 700034 710022* 710091* 720098 730001* 740081* 740095	720080 730001* 740017 740081* 740091* 750010* 750051* 750069* 750098* 760047 770053 770055* 780003 780015* 780047 790002*	Ontario 570029* 590457* 640048* 650056* 680023* 680060* 680081* 700018 720071* 720072 720078 720080 720084	840051* 840056 Quebec 570029* 640048* 650056* 680060* 680081* 680101 680102* 690064* 690095* 720071* 720072	500029 650056* 680102* 680109 690064* 700056 710061* 720072 730001* 730043 730044 740084 740110	790002* 790025* 800023 810003* 810036* 820010* 820020 820021* 820022* 820039* 830013* 840059* 840060 New Brunswick
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730044 740084	<u>P.E.I.</u>	750046 ⁻ 760054	830002 830004	810040 810041*
740091*	680102*	780019	830045	820023
740110	680109	780042	830056*	820050*
750010*	710061*	790018*	830057*	830002
750051*	740110	790019*	840015*	830004
750061*	820046*	800034	840017	830045
760014		800035	840038*	840061*
770051*	Atlantic	800036*	840061*	840063*
770071*	Offshore	810031*		
770077*		810032	Arctic	Pacific
780022*	710059*	810033	Offshore	Offshore
780024*	710065	810034		
780047	720103*	810037*	650007*	500029
800023	720104*	810041*	700092*	800010*
800027	730072	810047*	760015*	810041*
820046*	730081*	820003	780019	820051*
840028*	740003*	820041	780048	840033*
840059*	740004	820044	800034	840034*